UNION CHRISTIAN COLLEGE
ALUVA

SELF STUDY REPORT

Re-Accreditation Cycle IV

Submitted by IQAC

to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BENGALURU

UNION CHRISTIAN COLLEGE

[Affiliated to Mahatma Gandhi University, Kottayam)
Website: ucCollege.edu.inE-mail: ucc@ucCollege.edu.in

Post Box : 5
ALUVA- 683 102
Ernakulam Dist, Kerala
Fax: 2607534,
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No.UCC/NAAC/Re-Accrd/SSR/2017 Date: 27/03/2017

The Director
National Assessment and Accreditation Council
P.O.Box No. 1075
Bangalore- 560072.

Sir,

Sub: Self Study Report for Re-accreditation (Fourth Cycle) 2017-Reg.

We hereby submit the Self Study Report with respect of the fourth Cycle of Re-accreditation for the period of 2011-2016.

We feel glad that the preparation and submission of the report has given an opportunity for the total involvement of everyone in ensuring the growth and quality sustenance of the Institution.

We look forward to the peer team inspection and evaluation.

Yours faithfully

Principal

PRINCIPAL
U.C. College, Aluva-2

UNION CHRISTIAN COLLEGE
ALUVA - 2

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Declaration by the Head of the Institution

I certify that the data included in this Self Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part there of has been outsourced.

I am aware that the Peerteam will validate the information provided in this SSR during the peer teamvisit.

Signature of the Head of the institution

Seal

UNION CHRISTIAN COLLEGE KERALA INDIA ALUVA - 2

PRINCIPAL
U.C. College, Aluva-2

Place: Aluva

Date: 27.03.2017

UNION CHRISTIAN COLLEGE

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Certificate of Compliance

(Affiliated/ Constituent/ Autonomous Colleges and Recognized Institutions)

This is to certify that Union Christian College, Aluva, Kerala fulfills all norms:

1. Stipulated by the affiliating Universityand/or
2. Regulatory Council/Body [such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc.]and
3. The affiliation and recognition [if applicable] is valid as on date.

In case the affiliation/recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the Institution will sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or recognition by the Regulatory Council, as he case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the College website.

Place: Aluva
Date: 27.03.2017

Principal
PRINCIPAL
U.C. College, Aluva-2

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CERTIFICATION OF SELF STUDY REPORT

This is to Certify that the Self Study Report submitted to the National Assessment and Accreditation Council for the fourth cycle of accreditation of the College has been prepared with the active participation of the College community and that it accurately reflects the nature and substance of theinstitution.

Signed:

Dr. P.Thomas Mathew (Principal)

PRINCIPAL
U.C. College, Aluva-2

UNION CHRISTIAN COLLEGE
KERALA
INDIA
ALUVA - 2

23/6/17

Dr. Anil Thomas Koshy (Coordinator, IQAC)

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SWOC ANALYSIS

STRENGTH

- Institutional image/culture/pride/cultural heritage
- Accessibility to College
- Affordability and quality of education in our College
- Merit based faculty recruitment and student admission
- Teacher's student relationship

WEAKNESS

- Marketing/promotion programme
- Too many administrative procedures for research activity
- Open Accessibility to Books and Journals in Library
- Communication (internal; external)
- Budgeting/resource allocation

OPPORTUNITIES

- Alumni support
- Faculty exchange Programme with international institutions
- Consultancy and Extension
- Support from various funding agencies that increase success for lower-skilled students
- Student exchange Programme with international institutions

CHALLENGES

- Lack of new ideas and access to fast- changing technology
- Declining quality of students
- Lack of proper Funding
- Competition from other higher education institutions

EXECUTIVE SUMMARY

Introduction

Welcome to a college that is on the threshold of its centenary!

Union Christian College, Aluva was established in 1921 as the realization of a shared dreamand passion of a group of young visionaries whom with their alacrity and meticulous ways have spear headed the vision of the college as their lives mission.

A milestone in the institution's contribution to history happened a century back. In 1958, the College opened its portals to women, thereby initiating women's access to higher education in Kerala and history stands to testify how this contributed to the social and educational upliftment of women in our society.

The College has an illustrious line of alumni, whom we remember and treasure with great awe and pride.

The College was first accredited by NAAC in 1999 with Five Star. The second accreditation was done in 2007 (B++). The Third accreditation was done in 2011 (A). Currently the college awaits the fourth cycle of accreditation.

Criterion I: Curricular Aspects

Curriculum Planning and Implementation – The College is affiliated to Mahatma Gandhi University, Kottayam which designs and modifies the curriculum for all programmes. The College has a fair representation and dynamic contribution in curriculum planning and implementation at the University level.13members of the faculty are on the University Academic Council. 25 members are on the various Boards of Studies of the University and Autonomous Colleges. During the implementation of the Choice Based Credit Semester System (CBCSS) by the University, teachers of the Collegehave put in remarkable contribution in designing courses, organizing orientation workshops and setting up patterns of evaluation and documentation.

At points where college level intervention is possible in implementation of the curriculum, strategies are planned based on the mission and vision of the college. Three new courses were started after the accreditation period in the self-financing stream: B.Com (Taxation) B.Com (Computer application) MBA, MCA (Lateral entry)and M.Sc Zoology in aided stream.

Academic Flexibility – The College offers 15 undergraduate and 15 post graduate programmes. For all undergraduate programmes, an Open Course is offered in Semester V. The Departments decide on the electives and optional subjects that need to be included in undergraduate and post graduate programmes. All programmes function in the modular form.

Curriculum Enrichment – The College offers 04 value added programmes including 02 UGC sponsored career oriented programme, 04 add-On programmes and one skill acquisition programme. Invited talks and lectures are organized on frontier areas of knowledge.

Feedback System –The College has a formal mechanism of obtaining feedback from students at the end of the semester. The system is developed and modified by the IQAC.

Criterion II: Teaching – Learning and Evaluation

Student Enrolment and Profile – The College has its student enrolment based on the Centralized Allotment Process (CAP) for undergraduate and post graduate programmes.

Catering to Diverse Needs of Students – The admission procedures strictly satisfy all the government and university norms, and protect all rights regarding categories such as scheduled castes, scheduled tribes, minority communities, physically challenged applicants, achievers in sports and arts, and the like.

Walk with the scholar programme introduced by the higher education department, Government of Kerala, specialized mentoring programme for students in UG level and U.C.College conducts the programme very effectively and we received the appreciation letter from Walk With a Scholar regarding the same.

AdvancedSkill Acquisition Programmeis introduced by the higher education department, Government of Kerala in 2014. We are proud that recently U.C.College got five stars, the highest accreditation in ASAP.

Scholar Support Programme is also an initiative from the higher education department, Government of Kerala in 2014 and we are conducting it very efficient manner.

Remedial coaching is arranged every semester for weak students, who are identified based on their performance in internal assessments. Advanced learners are provided coaching for UGC National Eligibility Test, Civil Service and other competitive examinations.

Teaching –Learning Process – The College prepares an Academic Calendar at the beginning of every academic year, with focus on periodical internal tests, special events such as seminars, conferences and workshops and co-curricular activities. Individual teachers prepare delivery Plans.

ICT enabled teaching is practiced and for the available infrastr`ucture is used to its optimum. The College caters to student centred learning through student projects, seminars and assignments. The institution is decidedly desirous for claimingan excellence in academic performance, which is made evidentthrough feedback, remedial coaching, peer group teaching, and other various innovations brought after the last reaccreditation. Online admission student academic support through online platform and the use of ICT in large measures are some of the new initiatives of the college. Laboratories are well maintained and effectively used. The Language Lab caters to all students at the undergraduate level, along with its specialised use by students of English language and literature. Field visits and institutional visits are organised. Departments make good use of their computer labs. Students have free access to internet. Every Department is provided with computer connectivity.

Teacher Quality.151 faculty members (Permanent-82, Temporary-50, Part time-23) serve the college, 38 of them are Ph.D holders, 13 of them are M.Phil holders. 07teachers secured Ph D after the accreditation period.

Evaluation Process and Reforms - Evaluation of academic performance is two-fold: formative, conducted internally, and summative, conducted by the University. Scores at the formative level account for 20% in the case of undergraduate programmes and 25% in the case of post graduate programmes. Summative accounts for 80% and 75 %

respectively for UG and PG programmes. The components of formative evaluation are class participation, seminars, assignments and written examinations. The summative evaluation is based on written examinations conducted by the university. Practical exams, student projects and viva-voce too form part of this level. The results obtained for all the programmes are above University average.

Feedback. Various aspects of teaching a course are evaluated from a learner's point of view through the student feedback form. The Principal reviews the summarised report of each teacher and shares it with the teacher concerned for further improvement.

Student Performance and Learning Outcomes – The College focuses on its learning outcome namely academic excellence, leadership, team work, social concern, environmental consciousness, critical thinking and ethical values. The teaching – learning – evaluation strategies are designed in such a way so as to achieve the learning outcome to the possible maximum. Student performance and learning outcome are assessed through feedback from students, parents and alumni.

Criterion III: Research, Consultancy and Extension

Promotion of Research – The College has 09 Research Departments. Currently, there are 110 scholars doing research leading to PhD through these centres. 13 members of the faculty are research guides, and there are 28 research guides in total. The College has coordinated Mahatma Gandhi University research course work in an exemplary manner.The Department of Physics, Botany and Chemistry are DST-FIST centres.

Resource Mobilisation for Research-During the last five years the college has spent Rs.92, 35,000/-for creating, developing and maintaining various research promoting facilities such as Common Instrumentation Centre, Central Computing Facility, laboratories at Department levels, and acquisition of research journals and reference books. During the last five years (12 projects 35 minor and 5 major) have been undertaken by the faculty with a total grant of Rs. 3, 11, 671, 20/-.

Research Facilities - Common Instrumentation Centre, Central Computing Facility, Internet facility, NLIST access, and reference library are among the chief facilities open to researchersalong with the tie Ups with various agenciesto promote collaborative research.

Research Publications and Awards - During the period under review faculty members published 372research articles and 4 books. 6 teachers have publications with impact factor and04 faculty members have publications with *h* index. Students are encouraged to attend and present papers during seminars and conferences. The psychology Department during the period under review has 42 paper presentations done by students to their credit.

Consultancy - The faculty members provide consultancy free of cost. Currently 07 faculty members are engaged in providing consultancy services in different areas. The major areas of consultancy arecoaching for Kerala Publice Servic Commission, LV and IR, PL and spray, facilities for Research projects, Psychological assessment, Taxonomy of spiders,Consultancy in Vermicomposing,Fish rearing, breeding and organic farming.The college encourages faculty members to take up consultancy work and provides the necessary infrastructure facilities.An amount of Rs. 1, 16,650/- has been collected through consultancy.

Extension Activities and Institutional Social Responsibilities –NSS and NCC units functioning in theCollege undertake sociallyuseful acivities, promoting the holistic development ofstudent. The college has adopted a village in Karumalloor Grama panchayat and conducted economic and social survey to identify the prospects and problems. Geriatric Care project is undertaken under the initiative of the Department of Psychology. Planting of tree saplings on world environment day and their protection, noon meal for poor people by associations, Blood donation, etc. are some of the social responsibilities under taken by theCollege.Blood Donation has been institutionalized and implemented as one of the best practices of the College. An average of 60000 ml of blood is donated every year as an act of social service.

Collaboration - The faculty members have collaboration with national level institutions for research work / laboratory use and joint paper preparation.

MOUs have been signed with 03 foreign Universities namely Hope University, Michigan,USA, Catholic University, Taiwan, International Christian University, Japan for Student-Faculty exchange programme and service learning programme.,Medical Mission College, Kolencherry.,Synthite Industies,Kolencherry., for research work and practical training.

Criterion IV: Infrastructure and Learning Resources

Physical facilities – The College has land area of 42.4acres, with 513354.6 sq.ft of built up area. The main structures contain 67 class rooms,20 department staff rooms, 28 laboratories,08 fully furnished seminar rooms, 02 botanical gardens, instrumentation room for Chemistry,Botany and Physics Departments, 05computer labs, one language lab,03 major play fiels, 03 courts, 01 indoor stadium, well equipped gymnasium 01 counselling centre and 03 auditorium's.

Along with the Central Library, there are 14 Department libraries as well. The college has 05 women's hostels, 02 boy's hostel which includes 02 sports hostel. Principal's Residence is located in the heart of the campus. 07 staff quarter's and one staff apartment consisting of 07 flats are located inside the campus.Two staff quarters are located adjacent to the women's hostel outside the campus.
The library and Students' Cooperative Society Book Stall, a counseling centre (BLISS), a crèche (Play school) .a, co- operative bank, canteen and post office too are situated within the campus.

Library as a Learning Centre - Built up area of the library is 9300 sq. Ft with 222 seating capacity consisting of General Library, PG Library, Reference Section and IT Zone. The current strength of materials comprises 152124 books, 74980 Journals/periodicals and 5750 e-resources. Books are bar-coded and the issue and return of books are computerised. The average number of walk in is around 300 per day.

IT Infrastructure: We have free Wi- fi facility in the college**.** 384 Desktop computers and 40 laptops are made available throughout the College and all of of them are connected on LAN via an underground Optical Fibre Cable. A full-time system administrator looks after the IT facilities. The College has a public address system.

Maintenance of Campus Facilities - Computers and Network issues are covered under warranty or Annual Maintenance Contract. A transformer is installed for trouble free power supply. UPS back up is given for computers and 03 generator back ups are arranged for major equipments and laboratories.

Water supply within the campus is kept in balance through rainwater harvesting and independent wells. The maintenance of the campus is done by the works department under the supervision of a faculty member and a committee.

Criterion V. Student Support and Progression

Student mentoring and support –The College has instituted 108 Departmental and 09 General scholarships for academic performance of students which include the scholarships instituted by old students of the college,retired teachers, well wishers and other various scholarships like UCC Alumni in America,K.C.Chacko, Kano Yamamoto,Scranton and Kulangara .An amount of Rs.51, 39,673were given to 593 students.Scholarships are available to the students of SC/ST and economically challenged students from the Government.

Student Progression - 20% of the UG students and 4% of the PG students go for higher studies. 159 students got placement from the year 2014-16. The students pass percentage is above 70 % across all the programmes on an average. The dropout is negligible.

During the last five years 45 candidates qualified UGC-NET, 07candidates qualified JRF and 08candidates' qualified GATE.02candidates qualifiedICMR.

Student participation and activities - Sports and games are facilitated through the space set aside as Football field, Cricket ground, Hockey field Volley ball court, Tennis court and Basket ball court. An indoor court is also available for the students.

A well equipped gymnasiumfunctions in the campus.Inter departmental competitions are arranged for students. College annual athletic meet conducted every year. The College team has been university level winners in Hockey, softball, Baseball, Judo, Fencing and Netball for the past several years consecutively. The college bagged 4th position in 2012-13,5 th position in 2013-14,6 th position in 2014-15 and 4 th position in 2015-16 consecutively (among 193 Arts and Science Colleges)as the best performing colleges in M.G.University sports championships. Every year the college is conducting two inter collegiate championships in basketball and hockey.

Cultural activities: Inter -departmental competitions are arranged for students by the College Union. Our students have participated in the university youth feastival bringing laurels to the college by achieveing 4^{th} positionin 2012-13, 4^{th} position in 2013-14, 7^{th} position in 2014-15 and 6^{th}position in 2015-16, among 193 Colleges.

NSS unit of U.C. College focuses on the wholesome nurturing of its members through initiating them into the varied facets of the community services.National Cadet Corps: The NCC takes active participation in programmes. We have both boys and girls enrolled as cadets.A commandable performance from the unit like number of cadets' representation in Republic parade, YEP, etc. over the last 5 years shows the good progress in the unit.

Other activities include student service learning, Departmental Associations, Campus filimclubs, Nature Club, Women's club. The Student Council is constituted every year (College Union by Presidential mode).

Criterion VI – Governance, Leadership and Management

Institutional Vision and Leadership – The College was established with the objective of providing value based liberal education which aims at social development. To fulfil this objective the college admits students from diverse backgrounds irrespective of their religion, region, caste, economic strata and academic performance. In addition to the improvisation of several existing procedures and practices to sustain its performance, the College had come up with new and pro-active initiatives to improve the overall quality in all its spheres. Since the Reaccreditation in 2011, the focus of the college was called to face the challenges of Higher education in the era of globalization and to press towards higher goals and objectives. The college answered this call in the post accreditation period, by addressing issues related to all aspects of college life in a multifaceted way which

prepares the student to face an ever-changing world. The college vision and mission statement was redraftedaccordingly.A culture of participative management is developed in the institution. Various committees are formed to addressthe demands and needs, and are constituted with representation from various quarters.

Strategy Development and Deployment - Use of ICT is well established in the teaching, learning and evaluation process. Encouragement is given for research.Avenues of community engagement are discovered, and constructive tapping of human resource is promoted.

Faculty Empowerment Strategies – The College conducts several programmes for faculty empowerment. Induction programme is organised for newly appointed members of faculty, Methodology workshops and ICT skill development programmes are organised for all teachers. Further, faculty members are encouraged to attend Refresher courses and Orientation programmes. The college motivates the faculty members to attend seminars, conferences and workshops. During the period under review 44 faculty members attended Orientation/Refresher courses and 07 had undrgone Faculty Development Programme.

Financial Management and Resource Mobilization – Major sources of financial assistance of the college are the grant from State Government for salary of the staff, development assistance from the UGC and special assistance from the Department of Science and Technology. Other sources of income are from self financing programmes, revenue sharing programmes and contributions by the PTA. All the accounts of the college are audited by appropriate authorities.

Internal Quality Assurance Cell (IQAC) – The IQAC of the college undertakes several quality improving activities. It organises the academic workshop and academic review. It designs, implements, monitors and evaluates quality improving initiatives.

Criterion VII – Innovations and Best Practices

Environment Consciousness

The college maintains its campus eco-friendly. It has a wealth of large number of trees belonging to over 35 species. The rare and endangered plants are preserved. Conscious efforts are taken to sustain the campus as a natural ecosystem. The initiative includes planting of saplings and their protection, rainwater harvesting and recharging of wells, installation of bio-gas plant and incinerator are some eco friendly initiatives ventured by the college after the last accreditation.

1.Profile of theAffiliated College

1. NameandAddressof theCollege:

Name:	UNION CHRISTIAN COLLEGE
Address:	UNION CHRISTIAN COLLEGE P,O,.ALUVA
City:ERNAKULAM	Pin: 683102 State: KERALA
Website:	www.uccollege.edu.in

2. For Communication:

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr. P. Thomas Mathew	O:0484-2609194 R:0484 2609124	9446479124	0484 2607534	pthomasmathew@uccollege.edu.in
Steering Committee Co-ordinator	Dr.Anil Thomas Koshy	O:0484-2609194 R: 0484 2605542	9847477804	0484 2607534	anilkoshy1965@gmail.com

3. Statusofthe Institution: AffiliatedCollege

4. Typeof Institution:

a. ByGender Co-Education

b. ByShift Regular

5. Itisarecognizedminorityinstitution? Yes (Annexure)

6. Sourcesoffunding : Grant-in aid and Self-financing

7. a. Date of establishment of the College: 1921

b. University to which the College is affiliated/ or which governs the College

Mahatma Gandhi University, Kottayam

c. Details of UGC recognition:

UnderSection	Date,Month&Year (dd-mm-yyyy)	Remarks(Ifany)
i.2(f)	1948	Annexture
ii.12(B)	1956	Annexture

d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE,NCTE,MCI,DCI,PCI,RCIetc.)

Under Section/ Clase	Recognition/Approval details Institution/Department Programme	Day,Month and Year	Validity	Remarks
1	M.C.A	27-6-2001	One year	Annexture
2	M.C.A.(Lateral)	4-6-2014	One year	Annexture
3	M.B.A.	4-6-2014	One year	Annexture

8. Does the affiliating universityActprovideforconfermentofautonomy (as recognized bytheUGC),onitsaffiliatedColleges?Yes

If yes, has the College applied for availing the autonomousstatus? Yes

9. Is the College Recognized?

a. by UGCasaCollegewithPotentialforExcellence(CPE)? No

b. for its performance by any other governmental agency?

Yes, DST-FIST: Date of recognition (Annexure)

10. Locationofthecampusandareainsq.mts:

Location*	Urban
Campusareainsq.mts.	42.4 Acres
Builtupareainsq.mts.	26744

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places or incase the institute has anagreement with other agencies in using any of the listed facilities provide informationon the facilities covered under the agreement).

- ✓ Auditorium/seminar complex with infrastructural facilities. 3 nos.
- ✓ Sportsfacilities Playground--------6 nos , Gymnasium--1

Hostel

Boys'hosel

i. Number of hostels- 2

ii. Number of inmates- 48

iii. Facilities–Single room, Reading room, Recreation and T.V.room

* Girls'hostel

i. Numberofhostels –5

ii. Numberofinmates-246

iii. Facilities-Recreation, Reading room, Security and T.V.room

Residential facilitiesforteachingandnon-teaching staff

Teaching staff quarters- 8
Teaching staff Apartment- 1 (8 Flats)
Non teaching staff quarter- 1

Cafeteria—	Healthcentre	First-aid Centre	Ambulance
1	1	3	On call

Healthcentrestaff–

Qualifieddoctor	Fulltim	Rural Medical Mission
QualifiedNurse	Fulltime	

Facilitieslike

- ✓ post office,
- ✓ book shops

Transportfacilitiestocatertotheneedsofstudentsandstaff--No

Animalhouse- No

Biologicalwastedisposal- Yes

Generator or other facility for management/
Regulation ofelectricity and voltage Yes --3Nos.

- ✓ Solidwastemanagementfacility
- ✓ Waste watermanagement
- ✓ Waterharvesting

12. Details of Programme offered by the College (Givedataforcurrentacademic year)

Progm Level	Programme	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted
Under Graduate	B A	English	3 yrs/ 6 sem	+2/ VHSE	English	50	50
		Malayalam				50	50
		Economics				60	60
		History				38	38
	BSc	Mathematics				40	40
		Physics				48	48
		Chemistry				48	48
		Botany				32	32
		Zoology				32	32
		Psychology				30	30
		BTSP				38	34
		E&CM				38	38
	B.Com	Taxation				50	50
		Computer Application				50	50
Post Graduate	M A	English	2 yrs/ 4 sem	Degree	English	15	15
		Malayalam				15	15
		Economics				15	15
		History				15	15
	MSc	Mathematics				15	15
		Physics				12	12
		Chemistry				14	14
		Botany				10	10
		Zoology				12	12
		BioTechnology				20	20
		Bio- inform				20	20
	M.B A					60	15
	MCA					60	60
	M.C.A (Lateral					60	60

13. Does the College offer self-financed Programme? Yes

If yes, how many? 9

14. New Programme introduced in the College during the last five years if any?

3 Nos.

M.B.A,

B.Com. (Computer)

B.Com. (Tax)

15. List the Departments: (respond if applicable only anddonot list facilities like Library, Physica Educationas Departments, unless they are also offering academic degree awarding Programme.Similarly,do not list the Departments offering common compulsory subjects for all the Programme like English, regional languages etc.)

Faculty	**Departments** **(eg. Physics, Botany, History etc.)**	**UG**	**PG**	**Research**
Science	Physics, Chemistry, Maths, Zoology, Botany, Psychology, Biotechnology, Bioinformatics Elecronics and Computer Maintenance, Computer sciences	9	8	5
Arts	English, Malayalam, Economics, History	4	4	4
Commerce	B.Com	2		
AnyOther (Specify)	M.C.A,M.B.A		2	

16. Number of Programme offered under (ProgrammemeansadegreecourselikeBA,BSc,MA, M.Com…)

a. annual system Nil

b. semester system 30

c. trimester system Nil

17. Number of Programme with

a. ChoiceBasedCreditSystem -- U.G 15 Nos.

b. Inter/MultidisciplinaryApproach

c. Credit and semester system - P.G 15 Nos.

18. DoestheCollegeofferUGand/orPGProgrammeinTeacherEducation? No

19. DoestheCollegeofferUGorPGProgrammeinPhysicalEducation?

No

20. Number of teaching and non-teaching positions in the Institution

Positions	Teachingfaculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor					
	*M	*F	*M	*	*M	*F	*M	*F	*M	*
Sanctioned by the UGC/University/ State Government *Recruited*	-----	-----	9	7	17	49	29	6	Nil	Nil
Yet to recruit			12				5		1	
Sanctioned by the Management/ society or other authorized bodies *Recruited*			1	1	10	36	2	14		
Yet to recruit										

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanentteachers							
D.Sc./D.Litt.							
Ph.D.			8	4	18	17	47
M.Phil.			1	2	3	8	14
PG				2	2	17	21
Temporaryteachers							
Ph.D.			1	1	1	1	3
M.Phil.					1	4	5
PG					9	31	40
Part timeteachers							
Ph.D.						1	1
M.Phil.							
PG					1	21	22

22. Number of Visiting Faculty/Guest Faculty engaged with the College.

Nil

23. Furnish the number of the students admitted to the College during the last four academic years.

Categories	Year1		Year2		Year3		Year4	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	60	207	61	201	57	225	49	250
ST	7	20	7	20	11	23	9	31
General	385	1406	470	1376	420	1622	462	1760

24.Details on students enrollment in the College during the current academic year:

Typeofstudents	UG	PG	M.Phil.	Ph.D.	Total
Students from the same State where the College islocated	1795	766		90	2651
StudentsfromotherstatesofIndia					
NRIstudents	Nil	Nil	Nil	Nil	Nil
Foreignstudents	Nil	Nil	Nil	Nil	Nil
Total					

25. Drop out rate inUG and PG (average of the last two years)

UG 3.2 PG 2

26. Unit Cost of Education

(a) Including the salary component **Rs.45043/-**

(b) Excluding the salary component **Rs.3623/-**

27. Does the College offer any Programme/s in distance education mode (DEP)?

No

28. ProvideTeacher-studentratioforeachoftheProgramme/courseoffered

Sl No	Course		Programme	No. of Teachers	No.of Students	Teacher-student Ratio
1	UG	B.A	English	7	142	1:20
2		B.A	Malayalam	5	133	1:27
3		B.A	Economics	4	166	1:41
4		B.A	History	3	92	1:31
5		B.Sc	Mathematics	5	128	1:26
6		B.Sc	Physics	5	161	1:32
7		B.Sc	Chemistry	5	160	1:32
8		B.Sc	Botany	4	94	1:24
9		B.Sc	Zoology	4	89	1:23
10		B.Sc	Comp.Science	5	92	1:18
11		B.Sc	Psychology	3	106	1:35
12		B.Sc	E &CM	7	96	1:14
13		B.Sc	BTSP	3	84	1:28
14		B.Com	Tax	4	85	1:21
15		B.Com	Computer Application	8	133	1:17
16	PG	M.A	English	5	34	1:7
17		M.A	Malayalam	5	29	1:6
18		M.A	Economics	5	34	1:7
19		M.A	History	5	36	1:7
20		M.Sc.	Mathematics	5	37	1:7
21		M.Sc.	Physics	5	28	1:5
22		M.Sc.	Chemistry	5	23	1:5
23		M.Sc.	Bio tech	5	37	1:7
24		M.Sc.	Bio Info	4	31	1:8
25		M.Sc.	Botany	4	25	1:6
26		M.Sc.	Zoology	4	26	1:6
27		M.Sc.	Psychology	4	30	1:8
28		M.C.A		8	60	1:8
29		M.B.A		6	20	1:3
30		M.CA (Lateral)		7	57	1:8

29. Is the College applying for

Accreditation: Cycle : 4

30. Dateofaccreditation*

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation
1	1st Cycle	A	5 Star Level 2	1999
2	2nd Cycle	B++		2005
3	3rd Cycle	A	3.35	2011

31. Numberof workingdaysduringthelastacademicyear. 180

32. Numberof teachingdaysduringthelastacademicyear 143

33. Dateof establishment ofInternal Quality Assurance Cell

20/06/1994

34. DetailsregardingsubmissionofAnnualQualityAssuranceReports (AQAR) to NAAC

AQAR (i) Submitted on 23/07/2012

AQAR (ii) Submitted on 30/09/2013

AQAR 23/03//2017

AQAR 23/03/2017

AQAR 23/03/2017

35. Any other relevant data (notcoveredabove) the College would like to include.(Do not include explanatory/descriptive information)

Nil

CRITERION 1: CURRICULAR ASPECTS

1.1. State the Vision and Mission and objectivesof the Institution and describe how it is communicated to the students, teachers, staff and other stake holders.

Vision:
Serve the nation by facilitating and modeling wholesome and socially relevant education to actualize the values of humanism in accordance with the revelation in Jesus Christ

Mission
The Union Christian College, extending God's love to all, is committed to providing such education that facilitates the growth of the whole person and brings out the best in him or her that they would serve our nation and humanity at large and the ecosystem as intellectually competent, morally upright, spiritually inspired persons.

The College strives to live out its commitments by the following strategic initiatives in line with its unique history and cherished values.

1. Programme and activities aimed at improving academic standards and achieving academic excellence
    - Faculty Improvement Programme: special training events for teachers in curriculum development, academic audit, alternative teaching and assessment techniques
    - Student evaluation of teachers and peer evaluation to enhance the performance of teachers
    - Remedial education and tutorial programmes; mentoring and peer teaching
    - Providing better library facilities and trainingto students in the use of internet aided learning
    - Evolving inter Departmental and interdisciplinary educational programmes
    - Strengthening Research programmes and Research Centers: Facilitating research orientation both among teachers and students
    - Facilitating national and international seminars and collaborative research
2. Innovation in academic activities by offering courses designed to enable students to be competent in community life and to render them fit for the challenges of their personal and professional lives.
3. Provide add-on courses that have a practical and vocational orientation
4. Provide extra-curricular opportunities that facilitate maximum student-teacher inter action in the form of sports and games, clubs and societies, cultural and

literary activities

5. Revamping the residential system, providing maximum opportunities for out of the class interaction
6. Internationalization of higher education, promoting international seminars and conferences, facilitating faculty and student exchanges, joint publications of journals and books and encouraging collaborative research.
7. Provide adequate Infrastructure for the qualitative and quantitative enhancement of Higher Education
8. Enhancing student services in the form of improving general amenities and library facilities and providing access to internet and placement services
9. Providing structures and Programme that would ensure women empowerment and gender equity
10. Facilitating ethical discourses through the Center for the Study of Religion and Society; offering Programme to ensure value orientation to learning and to provide alternative models in sacrificial service
11. Provide service-learning and community extension opportunities to the neighboring communities, especially the most marginal communities under the initiative of each Department.
12. Resource mobilization for the development of the College is done through a Development Office and manned by a Development Officer
13. Establishing greater international linkages to further internationalization of education to meet global standards and facilitate solutions to global concerns.

The Vision and Mission of the College are well aligned with the objectives of the higher education policy of the nation. Established in 1921 out of indigenous initiative, Union Christian College has always been in the forefront in adapting to the changing needs of the society while continuing to pursue its goals and objectives. The special features of this institution are interdenominational basis of administration, participation of the faculty in the governance of the College, , cosmopolitan and liberal campus life, and ample opportunity for interaction between students and teachers in outside the class room activities. All the academic, administrative and co-curricular initiatives of the College are aimed at achieving the mission of the College, by focusing on the holistic development of students, empowering them intellectually, morally, emotionally and spiritually to take their part in nation building. The College strives to ensure transparency, participation, and quality at all levels of administrative and academic functions. Besides, it enables students and teachers to extend their knowledge, skills and expertise to surrounding communities, especially to those who are most marginalized and vulnerable. The College provides special care to the needs of the surrounding community through various extension activities and service-learning initiatives. The College strives for academic excellence on a par with international standards through various programmes to augment and supplement the regular academic activities and to foster international linkages.

The goals and objectives of the College are four-fold; academic goals, social goals, character building and value orientation. The College commits itself to the promotion of justice and peace, preservation and enhancement of the integrity of creation, fostering of a wholesome simple life style combating the ill-effects of corruption, powerlessness of the marginalized, violence and criminalization.

Empowering the powerless, particularly the tribals, dalits, women and other vulnerable sections of the society form a significant part of this commitment. It seeks to nurture probity in public life and to promote national integration.

The College has students coming in from different backgrounds of religion, economic status and society. Almost 40% of the students belong to minority groups and are also from rural areas. In allegiance to the Vision and Mission, the College constantly strives towards the upliftment of students from these sections of the society.

College Handbook:

The vision and mission of the College, along with all the rules and regulations are communicated to the students and staff, through the College handbook/calendar published and distributed on anannual basis.

Orientation Programme:

Both undergraduate and post graduate students and their parents are given separate orientation sessions on their first day of class.The aim of such sessions is to educate them about the general values and principles on which the College functions.It also familiarizes them with the different activities undertaken by the College for achieving the mission.

Value Education/ Ethical Response Sessions:

An hour a week is set apart for having discussion on issues and ethical response which is a student teacher interactive programme based on a syllabus prepared by the faculty members, in tandem with the principles of the College. The value education sessions create a good arena for the students to have an open positive interaction with their teachers through which institutional values are imbibed in them.

College Website:

TheCollege website helps the College community as well all the other stakeholders to educate themselves on the objectives, principles, vision and mission of the College.

Annual Newsletter and Magazine:

The newsletter and the Collegemagazine, both published annually, function as a platform for sharing the fundamental principles of the College. The Newsletter is primarily meant to reach out to the alumni who play an active role in supporting the institution.

Alumni Re -Union day:

Every November, the second Saturday is celebrated as alumni day. The keynote address and memories reflect the values they imbibed from the institution and it is passed on to the next generation.

Parent Teacher Association:

The Parent Teacher Association of the College is very strong. Regular meetingsare held to ensure awareness and participation of the parent community in all aspects of College life.

Staff Council and Staff Association:

Periodicmeetings of the Staff Council as well as the Staff Association help to communicate the goals and objectives of the institution to the faculty of the College.

1.1.2. How does the Institution develop and deploy action plans for effective implementation of the curriculum?Give details of the process and substantiate through specific example(s)

Affiliated to the Mahatma Gandhi University, Kottayam, Kerala,the College follows the curriculum prescribed by the University. The process through which plans for effective curriculum implementation are developed, takes place as follows:

- A general time-table is prepared for the whole institution at the beginning of the academic year to ensure smooth functioning of teaching learning activites.
- Every Department is responsible for developing its own action plans, based on the academic calender of the university and the College. The plans would take into account the number of hours required for the course delivery, allotment of portions and deadlines to be met. Within this framework, the Heads of the Departments are in charge of Department wise planning and implementation of the curriculum.
- The College staff council (which consists of representatives from all Departments), based on the requirements of all Departments, arrives at a consensus about important deadlines, such as dates for centralized internal assessments.
- Feedbackscollected from students in the previous year are also considered and suitable changes are incorporated into the action plan, if necessary, at the Department level.
- This feedback is conveyed to the respective Departments, which would then make effective changes, if necessary, to the existing plans.
- The College administration,right from the Academic Dean to the Heads of Departments makeregular interventions to ensure the proper implementation of the curriculum both at the UG and PG level.

1.1.3. What type of support (procedural and practical) do the teachers receive (from the University or the Institution) for effectively translating the curriculum and improving teaching practices

- Workshops are held by the University to facilitate syllabus revision and make the faculty aware of essential changes and necessary improvements to the existing syllabus.
- The University ensures that Model Question papers are available to teachers and learners. The syllabus also provides reading lists for each course prescribed.
- The university academic calendar, published annually, provides the College with sufficient information on the exam schedules for the year.
- At the institutional level, sufficient support is provided for the faculty by the administration for effective implementation of curriculum:
- A general time-table is made in the beginning of the academic year to ensure smooth functioning of classes.
- The workload for each Department and each course is divided among the respective faculty by the head of the Department. The Departmental time-table is preparedby the head of the Department for effective teaching.
- The College provides essential infrastructural support. All the Departments have sufficient class rooms and most Departments are equipped with reading rooms, language labs and practical labs which facilitate academic activites. For instance, the Department of History has an Archaeological museum and conservation laboratory to give the students hand on training in historical material handling.
- Periodical Staff Council meetings and Staff Association meetings render procedural assistance to the faculty. Problems identified in between the academic year are dealt with in such meetings with immediate effect. .
- The College ensures that books connected to the curriculum are available in the library for both teachers and students alike.
- Internal exams are scheduled for each semester and are held on a time bound basis.
- The IQACkeeps the teaching community updated with academic sessions meant to expose them to new methods of teaching and use of IT to enrich the teaching learning process.
- Five faculty members from different Departments have had an opportunity to participate in Exchange Programme or training Programme abroad. They have introduced innovative teaching strategies and shared their experience with other faculty.

Table 1.1: participation of Faculty in Exchange Programme Abroad

Sl.No	Name of the Faculty	Programme
1	Dr.M.I.Punnoose	UBCHEA
2	Dr.Reena Racheal Philip	UBCHEA
3	Dr.Mini Alice	UBCHEA
4	Dr.Justin R.Nayagam	UBCHEA

5	Dr.Resmi R.	FLAIR

1.1.4. Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on curriculum provided by the affiliating university or other statutory agency

- A Decentralized method based on the various subjects is followed in the College for transaction of curriculum.
- The syllabus requirements are verified at Departmental level.
- The curricular objectives are developed.
- To meet the identified objectives a delivery plan is made for each Department.
- Based on the course duration, credits and learning objectives, the work distribution for the Department is made.
- To ensure the transaction is effective, periodical introspection is made through class tests, class response and scheduled internal examinations.
- Identified lacunae among the learners are rectified through remedial teaching.
- Problems still identified as persisting are addressed through tutorial and mentoring Programme. If the learner still displays learning problems, counselling by the mentor or counselling with parental assistance is suggested or undertaken.
- Periodic assessments are very effective tool for feedback to analyse the knowledge level of the students.
- Recurring problems identified in the Departments are rectified in the next academc year.

1.1.5. How does the institution network and interact with the beneficiaries such as industry, research bodiesand the university in effective operationalisation of the curriculum.

- The institution has number of faculty members who have industry experience. Their professional networking and exposure has come handy in bringing in experts from different fields to deliver talks and workshops.
- The Department of Biotechnology has signed MoU's to provide On-the-Job Training for its students in BT & SP (Biological Techniques & Specimen Prepaation) programme with two institutions, the Synthite Group and Kolenchery Medical College respectively. Every year students of the Departmentparticipte in Industrial visits.
- The Department of Zoology has a tie-up with 'Care Keralam', an institiution where students get On-the-Job training in a range of activities such as Animal care and Ayurvedic practices.

- The Department of Physics offers a consultancy on the utilizing of research equipment.

- The College has received grants for various minor and major projects from Research funding bodies such as the UGC, ICHR, KCHR, ISRO, DST, SERB, DBT, UBCHEA, KSCSTE, and BRNS ((List attached Annexure:)

- Industry visits and field visits are organized by various Departments.

- The career guidance centre functioning in the College assists employers including banks to select candidates from the campus itself. More than 200 students have been recruited by scheduled banks,MNCs, etc.

1.1.6. What are the contributions of the institution and/or its staff members to the development of the curriculum by the university?

- Thirteenfaculty members from various Departments are part of the Board of Studies of the University and have been actively involved in preparation of Syllabus.

Table1.2: Board of Studies members from our College in the M.G.University

Sl. No.	Name of the teacher	Department
1.	Dr. P.M. Kuriachan	Botany
2.	Dr. E.S. Jeevanand	Mathematics
3.	Dr. Ancy Eapen	English
4.	Dr. Sheeela Kumari Isac	Chemistry
5.	Dr. Shirly Thomas	Zoology
6.	Mr. Saju Mathew	Malayalam
7.	Dr. Malini R	Psychology
8.	Dr. Neelima Ranjith	Psychology
9.	Dr. Seena M Mathai	Psychology
10	Ms. Syna Soosan Abraham	Psychology
11.	Dr. Vidhya Ravindranadhan	Psychology
12	Mr.Cijin K Paul	Computer Sciences
13	Dr.Sareen Sarah John	Bio-Technology

Table1.3: Board of Studies members from our College in the various Autonomous Colleges

Sl. No.	Name of the teacher	Department	Colleges
1.	Dr. Muse Mary George	Malayalam	SH College,Ernakulam
2.	Dr. M. I. Punnooose	Malayalam	St.Josephs College,Irinjalakkuda
3.	Dr. K. S. Narayanan	Malayalam	St.Josephs College,Irinjalakkuda
4.	Dr.Vidhu Narayan	Malayalam	C.M S College,Kottayam
5.	Dr. E. S. Jeevanand	Mathematics	SH College Ernakulam
6.	Dr. Seena M. Mathai	Psychology	St.Joseph College,Irinjalakuda
7.	Dr. Malini R.	Psychology	St.Teresas College,Ernakulam
8.	Dr. Neelima Renjith	Psychology	St.Teresas College,Ernakulam
9.	Dr. Anila E. I.	Physics	St.Joseph College, Irinjalakuda
10	Dr. Sebastian Joseph	History	C.M.S.College,Kottayam
11.	Dr. Jenny Peter	History	Devagiri College,Kozhikode
12.	Dr. Thara K. Simon	Botany	Mar Ivanios College,Trivandrum

- Forty eight faculty members from various Departments are part of question paper setters in different universities and Autonomous Colleges
- 25faculty members from various Departments are part of curriculum revision Programmesin different Universities and Autonomous Colleges

1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it. If 'yes' give details on the process (needs assessment, design, development & planning) and the courses for which the curriculum has been developed.

- Yes

The College offers **four value added Programmes** including two UGC sponsored career oriented Programmes at various levels. **The Departmentsof Botany, Chemistry, History,and Computer Science** have designed and developed curricula for add-on and diploma courses run by them. Significantly, the course design and plan of these courses are internally generated.

UGC Sponsored Courses

- The Department of Botany offers a diploma course in **Industrial Floriculture and Gardening.**

- The Department of History conducts an advanced diploma course in **Archeology and Museology**
- The Department of Chemistry offers an advanced diploma course in **Material Sciences**.
- The Department of Computer Science offers a Career Oriented Course titled **Structured Information Processing and Network Application.**

These Courses are of 3 year-durationin which a student can acquire three separate certificates/diplomas. (After the first year, the student completes a certificate course. In the second year the student earns a diploma and in the third year a advanced diploma.)

Needs Assessment

Based on the relevance and job opportunities available and having taken into account the opinion of present and former students and recruiters.

Design

The curricula were designed by faculty members of the concerned Departments in consultation with experts and resource persons in the relevant field.

Development

In the case of UGC sponsored Vocational Diploma Programme, the curricula so prepared were sent to the University for approval.

Planning

This includes the time schedule of the course, the duration of the course, methodology of the course, fees, faculty, examination etc. The action plan is finalized by a committee consisiting of the Manager, Principal, External Expert and the coordinator of the respective course.

1.1.8. How does institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation

- Through periodic assessments, introspection and an active feedback mechanism.
- Assessments are done in the form of internal examintions and assignments. Besides departments conduct surprise quizzes, class room response etc.
- ICT enabled seminars and project presentations are conducted to effectively achieve the objectives.
- The percentage of pass, number of university ranks and grades, placements, etc. are other indicators of achievement.

- Feedback from stakeholders especially from parentsand students are also taken into account.
- Projecte undertaken by the U.G. and P.G. students.

1.2. Academic Flexibility

1.2.1 Specifying the goals and objectives give details of the certificate/diploma/skill development course etc., offered by the institution, Apart from the regular Undergraduate and Postgraduate courses, the College offers the followingProgramme:

Add on Courses

Computer Science Department offers a Career Oriented Add-On Course titled Structured **Information Processing and Network Application.** It is a 3 year course which earns three certificates. The first year is a certificate course. The second year of the course ensures a diploma and the third year gives post diploma.

Diploma Courses

The Dept. of Chemistryoffers an advanced diploma course in **Material Sciences**

Objectives:

1. To equip its students for successful careers in the field of Materials Science
2. To prepare students to apply modern day approaches to materials problems.
3. Make students aware of the social, safety and environmental consequences of their work.
4. To be able to design and conduct experiments and to analyze data.
5. To understand at the professional and ethical responsibilities of a materials scientist

The Department of Botany also offers a diploma course in **Industrial Floriculture and Gardening (UGC Sponsored)**

Objectives

1. To foster improved standards of living
2. To create greater employability
3. Growing consciousness among the students to live in environmentally friendly manner
4. To provide greater scope for self-employment

The Department of History conducts an advanced diploma course in **Archeology and Museology** (UGC Sponsored)

Objectives

1. To provide vocational opportunities for history graduates
2. To broaden their higher education options.

Advanced Skill Acquisition Programme (ASAP)

The Department of English in association with Department of Computer Science has been conducting the ASAP training Programme under the initiative of the Government of Kerala

1.2.2 Does the institution offer Programme that facilitates twinning/dual degree? If 'yes' give details.

No

1.2.3. Give details of the various institutional provisions with reference to academic flexibility and how it has been helpful students in terms of skill development, academic mobility, progression to higher studies and improved potential for employability.

Range of core/elective options offered by the university and those opted by the College.

- The curriculum offers number of elective options / Choice Based Credit System. (CBCS).
- A number of new Programme and options are available to meet the needs of the students and the society.
- The B.Sc. Physics (main) students can opt for a second option either Chemistry or Statistics along with Mathematics. Similarly, Economicsstudents can choose a second subsidiary subject from either History or Political Science. With the introduction of theChoice Based Course, Credit and Semester(CBCSS) systemwhich was introduced in 2009-2010 by the university, the academic flexibility, ie.offering a variety of open and choice based courses to the students has been beneficial.

Economics, Mathematic and History

- Range of core/elective options offered by the university and those opted by the College. The curriculum offers number of elective options / Choice Based Credit and Semester System. (CBCSS).
- Credit transfer and accumulation facility- (At present, credit transfer is not available to affiliated Colleges)

- Lateral and vertical mobility within and across Programme and Courses
- Enrichment courses
- Skill enhancement courses like ASAP, personality development Programmes, NET coaching and coaching for Civil Service Examination aspirants.

A number of new Programmes and options are available to meet the needs of the students and the society. Core and elective options are provided by the University for all Courses both at UG and PG level. Electives are provided for the 5th and 6th semester UG students and 3rd and 4th semester PG students.The students can opt for an open course out of the 12 courses offered by different Departments during the 5th semester at UG level. Transcripts are issued to students for continuation of their studies outside the Kerala state and also for international academic Programme.

Various enrichment Programme are provided by the College to enhance value orientation.Awareness in social citizenship roles are provided by the College through counseling Programme, Women's cell, NSS, NCC, Association activities, SCM, legal literacy classes, women empowerment Programme, study tours, etc.

Courses opted by various Departments- electives and special papers/comple

a. Courses offered in modular form

All the U.G and P.G Programme offered in different modules.
The Internal Assessments and the University Examinations are also on modularbasis.

b. Credit transfer and accumulation facility-

No credit transfer and accumulation facility is available in the prevailing M.G.University system.

c. Lateral and vertical mobility within and across Programme and courses

Open courses provide the chance of lateral and vertical mobility across Programme. Every Department offers one open course each which is open to the 5th semester students of all disciplines. The following are some of the open courses run by various Departments.

Table 1.4.Open courses run by various Departments.

Sl. No.	Department	Name of the course
1	Malayalam	Journalism
2	English	English for Careers
3	History	Environmental History
4	Economics	Foundations of Environmental Economics

5	Physics	Astrophysics
6	Chemistry	Food Science
7	Mathematics	Applicable Mathematics
8	Computer Science	Web Designing
9	Botany	Horticulture and Nursery Management
10	Zoology	OrnamentalFish Breeding, Rabbit farming, Bee keeping
11	Psychology	Lifeskills Development
12	Physical education	Physical,Health and Life skills Education

1.2.4. Does the institution offer self-financed Programme? If yes list them and indicate how they differ from other Programme with reference to admission, curriculam, fee structure, teacher qualification, salary etc.

Table.1.5.Self financing courses of the College

Sl. No.	**Programme**	**Duration of the course**	**Year of commencement**
1	B.Sc. Computer Maintenance & Electronics	6 semesters	2001
2	B.Sc. Biological Techniques and Specimen Preparation (BT & SP)	6 semesters	1995
3	M.Sc. Biotechnology	4 semesters	2001
4	**M.Sc. Bioinformatics**	4 semesters	2004
5	**B Com. Taxation**	6 semesters	2014
6	**B Com. Computer Application**	6 semesters	2013
7	**MCA**	6 semester course	2001
8	**MBA** Electives 1. Marketing Management, 2. Financial Management 3. H R M 4. Information Systems 5. Production and Operations Management 6. International Business	4 semesters. .	2005

Table.1.6. Self financing courses Fee Structure /Qualification

Course (Self financed)	Admission	Curriculum	Fee structure (Semester)	Teacher qualifications
B.Com (Computer)	50%Merit 50%Management	University Syllabus	Rs.22500	Post Graduates

B.Com (Tax)	50%Merit 50%Management	University Syllabus	Rs.19000	Post Graduates
B.Sc E&CM	50%Merit 50%Management	University Syllabus	Rs.30,000	Post Graduates
BT & SP	50%Merit 50%Management	University Syllabus	Rs. 11,250	Post Graduates
M.Sc Bio-Tech Bio Info	50%Merit 50%Management	University Syllabus	Rs. 35000 Rs. 35,000	Post Graduates
M. C. A.	50%Merit 50%Management	University Syllabus	Rs. 26,000	AICTE Norms
M. B. A.			Rs. 50,000	

Admission of students in the self financed courses are as per the existing norms and guidelines issued by the Mahatma Gandhi University.50% of total seats are filled through CAP on merit basis by the university and 50% is reserved for management quota. The 50% general merit is again divided into 40% general,3% OBC and 4% SC/ST.

Curriculum .The self financed courses offered by the institution follow the curriculum framed by the Mahatma Gandhi University. Teacher qualification is the same as that for regular courses

1.2.5. Does the College provide additional skill oriented Programme, relevant to regional and global employment markets? If yes provide details of such Programme and beneficiaries

Table.1.7.Details of additional skill oriented Programme

Sl. No.	Programme	Description
1	**Additional Skill Acquisition Programme**	Introduced by the higher education dept.- Department of Higher Education (DHE), Government of Kerala (GOK) and the Wadhwani Foundation announced a strategic partnership which aims at improved employability of students in Kerala through vocational and other educational training Programme
2	**Walk With A Scholar (WWS) Programme**	Specialized mentoring Programme for students in Under Graduate Programmes inArts, Science and Commerce and to provide guidance for their future. The scheme introduces the idea of mentoring and builds on the concept of mentor as a 'Guide' and 'Friend'. The mentoring scheme for students will be purely voluntary in nature.
3	**Civil Service Coaching**	Civil Service Coaching classes: Functions as a center of excellence in molding young minds in reaching top-notch positions in Central Civil Services. The Programme intends to help the aspirants work towards delivering relevant and comprehensive guidance factoring in all the parameters of UPSC.

4	**NET coaching**	Net coaching has been provided to PG students in their respective Departments by experts in the same field to encourage students to enter the teaching and research area.
5	**Memorial seminars**	English Department.- Prof. Susan Thomas Memorial Lecture Mathematics Department- Chemistry Department- Dr. AM Chacko Endowment seminar Psychology- Dr. Jerald Middents lecture series and Dr. V K Alexander Memorial National Seminar Malayalam Department- Vidwan P G Nair Memorial Seminar

1.2.6. Does the university provide the flexibility of combining the conventional face toface and distance mode of education for students to choose the courses/combination of their choices? If yes how does the institution take advantage of such provision for the benefit of students?

In the present system of M.G. University there is no provision to combine conventional and distance mode of education together. But students undergoing conventional UG and PG programme can study courses of their choice under distance mode.

The College started Off - Campus course in BCA degree in the year 1995.

1.3. Curriculum Enrichment

1.3.1. Describe the efforts made by the institution to supplement the University's Curriculum to ensure that the academic Programme and Institution's goals and objectives are integrated?

As the mission statement declares, the College aims to give a holistic education to its students, equipping them with the intellectual, social, technical and interpersonal skills that they would require to meet the challenges in the vocations of their choice. At the same time, the need to create morally and socially aware citizens who can contribute their skills for the betterment of society is also an objective. The institution ensures that the said goals are integrated to the curriculum in the following ways:

1. **Club Activities** – The College has six clubs to support co-curricular ativitiessuch as Fine Arts Club, Tourism Club, Quiz Club, Debate Club, Media Club and Nature action club. Each club is under the supervision of a faculty advisor. The clubs conduct Programmes and competitions in the initiaives of the volunteers. These clubs help to integrate the College's goals with the curriculum.

2. **Department Association Meetings** – Each Department of the College has its own Association with elected office bearers. One hour a week, or in some cases, two hours a month are allocated in the timetable on a regular basis. All the three Undergraduate batches and the Postgraduate students of a Department meet to conduct Programme relevant to their respective disciplines. These include presentations, discussions and debates and invited lectures. The students also learn how to conduct meetings read minutes and organize their own activities in the given time.

3. **Scholarships and Endowments** - scholarships and endowments based on academic proficiency are given to deserving students on an annual basis by all Departments. The Scranton Scholarship for Womeninstituted by is awarded to meritorious girl students. Other scholarships that recognize leadership like the Kano Yamamoto Scholarship, (for ten students of the College) helps to support high achievers reach their potential.

4. **National Service Scheme-**The N.S.S. unit of the institution actively orients students to the social needs of the community including awareness rallies, camps, and organic farming initiatives.

5. **National Cadet Corps-**The N.C.C. plays an active role in instilling confidence and self discipline in the volunteers. The Youth Exchange Programme (YEP) is significant as it allows cadets to broaden their horizons by experiencing different cultures.

6. **Value Education or Ethical Response Sessions** are other means of supplementing the academic Programme. On every Friday during the second semester, first period is allocated for Value education lectures. Seminars are also held for teachers, in order to equip them to handle these classes in an effective manner.

7. **Sports Facilities**-The Collegehas several facilities for Physcial Educataion of Men and Women students. Students have been using these facilities. There is also a well equipped multi gymnasium for students.

1.3.2. What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?

Over the years, as a centre for higher learning, the College has attempted to equip students with hands on experience and skills that would make them a valuable asset to any industry.

1. Field trips or field visits organized by the science departments are an integral part of gaining first hand experience outside the classroom.

2. On-the-Job Training Programme offered by the Departments of Computer Maintenance and Biotechnology.

3. Seminars, workshops and training Programme are organized by the College, and by individual Departments to enrich and supplement the curriculum.

4. ASAP (Additional Skills Acquisition Programme) is a venture that trains selected students and equips them with soft skills and computer skills, over a period of three weeks. The College has been accorded five stars by theGovernment of Kerala for the successful conduct of the Programme.

5. The Career Guidance and Placement Cell has been effectively bridging the gap between the institution and the industry by organizing training sessions in soft skills and job fairs/ interviews for students.

6. All Departments have been conducting career guidance Programme for outgoing Undergraduate and Postgraduate batches.

7. Eminent persons are invited to share their experiences and expertise in various fields with students.

8. Student Exchange Programme.

9. Coaching for the UGC NET examination has been offered in phases.

10. Students are encouraged and facilitated to attend/ present papers at seminars.

11. Service learning activities to learn from firsthand experience.

12. Career oriented materials provided by the library

13. Students are also provided personal counseling, mentoring, tutorial, career guidance and personality developmentProgramme.

14. Research projects by faculty members, leadership of the faculty in various academic and professional bodies, consultancy services by the faculty

1.3.3. Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum.

The existing curriculum of Mahatma Gandhi University does address many of these issues. Gender, Environmental Education and Human Rights form a large component of the syllabus of the common courses, especially English. In addition the institution takes efforts to expose and sensitize students to these issues in several ways:

1. Whenever an opportunity presents itself in the form of choices of electives or open courses, Departments choose an area that would add to the

student's general awareness of the world around them. For example, Environmental History is an interdisciplinary Open Course offered by the HistoryDepartment.

2. Assignments and seminars given to students are connected to social realities and not confined to the curriculum.

3. Talks by and interactions with prominent social leaders expose students to such issues.

4. The Women's Cell of the College actively engages in educating the student community on gender issues through formal and informal meetings.

5. The Nature action club and the N.S.S. both focus on specific environmental projects in and around the campus. Campaigns, street theatre, screening of documentaries and making power point presentations are methods used by the students to raise awareness about the issues like Save Periyar movement, Transender issues, etc.

6. The N.C.C has organized seminars on road safety and Cyber crime.

7. For both Men and Women students and faculty, the College provides residential facility. To promote gender equality and avoid gender discrimations college constituted a women's cell and has been functioning effectively for the last several years.

8. Every research Department encourages students to undertake research in areas relating to gender, climate change, environmental education, human rights, etc.

9. Important days like Ozone day, Science day, human rights seminar, environmental day, gender issues are observed by Clubs and Associations

1.3.4. What are the various value-added courses/enrichment Programme offered to ensure holistic development of students?

1. Moral and Ethical Values-Issues and Ethical Response classes.

2. Employable and Life Skills –Archaelology and Museology, Open courses in Psychology and Physical Education.

3. Better Career Options NET Coaching, Mentoring Programme like Walk With aScholar, Civil Service Coaching.

1. Community Orientation –Programmes organized by the Centre for study of Religion and Society.

2. Tutorial System- Intonale are central to study at the College students meet their tutor periodically to discuss with academic matters.The tutor monitore the students academic progress regularly.

3. Departmental association-Co curricular activities are organized and implemented in the meetings.

1.3.5. Citing a few examples enumerate on the content of use of the feedback from stakeholders in enriching the curriculum.

1. Syllabus revision/updation plan drafted based on student feedback

2. Complementary tutorials initiated

3. Pedagogic methods/tools adapted according to the draft:

4. Use of new discourses/texts like movie/stage/musical/online adaptations

5. Generating new materials/discourses based on the curriculum

The College has 13 faculty members representation in the UG and PG Board of Studies of the University. The observations and constructive suggestions from the feedback obtained from stakeholders including parents, alumni members, local community and campus recruiters are conveyed to the Boards of Studies and are utilized in designing and enriching the curriculum. The stakeholders include,

ALUMNI

Every year the institution and all the Departments hold alumni meetings. The suggestions of the alumni contribute to the productive functioning of the College.Feedback from the alumni gives ample information regarding the strengthsand weaknesses in the light of which improved facilities are made available tostudents. Feedback from students is used to rectifying the shortcomings ofthe curriculum**.**

1.3.6 How does the institution monitor and evaluate the quality of its enrichment Programme.

1. Academic committee in every deparment to monitor the Programme.

2. Delivery plan and records of implementation maintained by the faculty.

3. Review meetings by faculty in all the Departments.

1.4 Feedback System

1.4.1. What are the contributions of the institution in the design and development of the curriculum prepared by the University?

Faculty members of eight Departments are members of the respective Board of Studies at the UG and PG levels in M.G.University. They contribute effectively at all stages of curriculum planning, revision and implementation.

1.4.2. Is there a formal mechanism to obtain feedback from students and stakeholders be on Curriculum? If yes, how is it communicated to the University be and made use internallyfor curriculum enrichment and introducing new changes/ new Programme?

1. **Students:**

- Orientation Programme are arranged separately every year for first.,second and third year U. G.Programme andthe PG Programmes in which feedback on curriculum performance of their Departments are collected in prescribed format.

- Annual farewell meetings are arranged for outgoing students in which they express their suggestions and opinions regarding the curriculum and overall performance of the College.

2. **Alumni:**

Reunion of alumni and friends of the College is organized every year on the second Saturday of November in which alumni feedback is obtained. In addition regular Alumni Executive Committee meetings are held to collect suggestion on matters related to the programme implementation.

3. **Parents:**

PTA General Body meets once a year and executive meetings are held once in every term. Feedback on curriculum and academics are obtained through such meetings. Open House Programme are held every year after the internal assessment tests, where feedback from parents is sought.

4. **Employers/ Industries:**

The College is in the process of developing a mechanism to obtain feedback from employers/ Industries. The College has strong ties with Industries around where our alumni occupy key positions. Feedback is collected informally through a format for analysis.

5. **Academic peers**:

Eminent dignitaries visiting different Departments express suggestions and remarks in the visitor's diary of the College. A review committee consisting of academicians and management experts was constituted in 2009 to review the overall performance of the College. The review report has been released and made available for the faculty and other employees of the College.

6. **Community:**

No formal mechanism is adopted for obtaining feedback from the community. However, the College has strong relationship with the community around and their informal suggestions are always taken in to consideration by the College.

1.4.3. How is the above feedback analysed and the outcome/ suggestions used for continuous improvements and communicated to the affiliating University for appropriate inclusion?

The feedback obtained from students, alumni, parents and other stakeholders are discussedfirst in the Staff Council which consists of the Principal, heads of all Departments, librarian and two elected faculty members and then in the Staff Association. Steps are taken to rectify any drawbacks in implementation.New ideas and suggestions are either communicated to the University Syndicate for appropriate action or brought to discussion in the Board of Studies members from the College.

1.4.4. How many new programmes or courses were introduced by the institution during the last four years? What was the rationale for introducing new courses or programmes?

- B.Com (Computer Appilcation)
- B.Com (Taxation)
- MSC Zoology
- MBA
- MCA (Lateral Entry)
- PhD Psychology

The rationales for introducing new courses are

- Recommendations of last NAAC peer team
- Suggestions made by Kerala State Higher Education Council.
- Demand from Stake Holders.
- Opportunities available in the job sectors.

CRITERION II – TEACHING, LEARNING, AND EVALUATION

The College strives for the wholesome education of each individual and to get the best out in him. ThisCollege established in 1921 on interdenominational co-operation, adheres to the mission of producing intellectually competent, morally upright and spiritually inspired men and women who serve the country with dedication and fervour which is reflected in every aspect of teaching and learning. It fosters Christian and humanistic values and the management, faculty, administration and students strive to live up to these cardinal values envisaged by our founding fathers.

2.1.1. How does the College ensure publicity and transparency in the admission process?

An institution located in a semi-urban area, with its legacy and reputation built over several years, Union Christian College attracts young aspirants from all over the state and from varied social, economic and demographic strata of the society. The College, as per the Kerala government stipulations, exercises reservation for students belonging to minority Christian and Muslim communities, and those from Union Territories (Lakshadweep) as well. As the admission to UG and PG Programme is done through Centralized Allotment Process (CAP) of the affiliating university, the University notifies the procedure for admissionsin newspapers. The College website gives links to the relevant pages of the University website.The prospectusand other details related to admission are made available in the College before the time of admission. As the scholarships and financial support offered by the institution are major attractions, the College gives publicity to it through the website and handbook.

The enrolment of students to various Programmes is strictly based on the rules of the state government and the guidelines of Mahatma Gandhi University.For SC/ST students, the admission procedure is as per the guidelines provided by the Government. For self financing Programme, notifications are advertized through newspapers. The lists of selected students are exhibited on the College notice board. To ensure transparency, the applications to management quota seats are serially numbered. Cut-off marks for Management quota seats and Community quota seats are decided by a committee comprising the Principal, the Manager and selected faculty members. Records of the entire admission procedure are further submitted for auditing so as to ensure transparency in the process.

2.1.2. Explain in detail the criteria adopted and the process of admission

The institution follows the Centralized Allotment Process (CAP) of the Mahatma Gandhi University for admissions to the undergraduate and post graduate Programme. Admissions to the general and reservation seats (SC/ST) are also carried out through this process. The entire system being computerized, the prospective candidates enroll themselves in the University website, stating their choice of the Programme as well as the institution under the University. Allotment of students to various Programme and Colleges is done by the University based on their academic merit. The dates of admission to various Programme are announced and provided in newspapers and the University website for easy verification. Enquiries regarding the admission procedure are addressed by the College. An interactive help-desk is opened and made available at

the College reception and all information related to admission are provided on boards displayed near the College entrance. The application forms for the management and community quota are provided by the College and admissions to those seats are carried out by the institution based on the academic merit of students. Minimum marks are fixed for student enrollment to management quota, which ensures transparency of the process.

Admission process

An admission committee is constituted under the headship of the Principal, along with the Heads of Departments and administrative officer. Apart from the general admission committee, separate committees are constituted at the Department level, with Heads of Departments and three faculty members as per the decisions made by the Staff Council, a statutory body of the institution. Students are admitted to various Programmes after verification of the eligibility documents by the Department level committee. Final verification of documents is done by the administrative staff under the supervision of the Principal and administrative officer, selected students get confirmation to their admission to the Programme of their choice. Information regarding the students admitted is uploaded in the University website by the College on the day of admission as per the directions of the university, and the university prepares subsequent admission lists based on the number of vacant seats. Admission to self-financing Programme is also carried out based on the norms set by the Government and the University.

Admissions to Ph.D Programme are carried out as per the UGC and University guidelines. Students with UGC-NET/JRF and those with high ranks in the entrance examination (conducted by the University) find entry to the research Departments of the College.

2.1.3. Give the minimum and maximum percentage of marks for admission atentry level for each of the Programme offered by the College and provide a comparison with other Colleges of the affiliating university within the city/ district

Table 2.1Minimum and maximum percentage of marks for admission atentry level for each of the Programme offered by the College

		Maximum Marks %		Minimum Marks %	
AIDED Stream Undergraduate Programme					
		U.C.College	St. Xaviers	**U.C.College**	St. Xaviers
B.A.	English	98.58	97	80.17	67
	Economics	97.83	92	83.75	82
	History	96.25	NA	80.80	NA
	Malayalam	91.43	92	69.42	82
B.Sc.	Mathematics	98.75	96	77.58	75
	Physics	98.83	95	88.92	73
	Chemistry	98.25	96	82.58	83
	Botany	94.17	98	83	73
	Zoology	95.83	93	68.92	76

	Computer Science	92.67	NA	87.58	NA
	Psychology	93.60		90.17	
Post graduate courses (index marks)					
M.A.	English	89.50	90	75.25	65
	Economics	98.80	NA	57.70	NA
	History	81	NA	62.25	NA
	Malayalam	76.90	90	47.50	65
M.Sc.	Mathematics	93.20	NA	79.80	NA
	Physics	91.20	92	86.10	62
	Chemistry	91.30	NA	89.80	NA
	Botany	88.09	NA	85.20	NA
	Psychology	97	NA	66.75	NA
	Zoology	89	NA	88.09	NA
Self Financing Strean Undergraduate Programme					
B.Sc.	Biological Techniques & Specimen preparation(BT&SP)	88.25	NA	66.90	NA
	Electronics & computer Maintenance (E&CM)	82.4	NA	70.88	NA
B.Com	Computer Application	90.40	100	79.58	69
	Finance & Taxation	89.75	NA	88.60	NA
Self Financing Stream Postgraduate Programmes					
M. Sc.	Biotechnology	81.80		51.50	
	Bioinformatics	91.20		70	

Data of St. Xaviers College, Aluva (Urban area)

2.1.4. Is there a mechanism in the institution to review the admission processes and student profile annually? If yes, what is the outcome of such an effort and how has it contributed to the improvement of the processes?

The verification of mark lists and certificates of candidates selected for admission is done centrally in all the academic Programme. The database of students' marks and other academic details prepared on the day of admission itself ensures easy access to students' profile though out the course of their study and beyond.The admission committee reviewsthe admission process,the number of students admitted to each Programme, as well as their academic credentials. In fact, the need for a help-desk - to support applicants - at the College entrance was felt during such a review process, and steps were taken thereafter to introduce the same. Similarly, Programme with higher demand are identified and then marginal increase in the number of seats is requested to the University (Every year the College gets additional seats in such Programme). The need for a Programme in the Commerce stream at UG level was felt and thereafter effort was taken to begin the Programme. The College also took steps to introduce a Masters

in Business Administration taking into account the growing demand for the Programme and on the basis of feedback received from the students and their parents. The academic quality of students admitted is also monitored by the committee and this has led to the identification of certain discrepancy in admission criteria to Programme such as B. Sc. Psychology. Students from any academic stream at their higher secondary level are permitted to apply for the Programme, while those who have studied Psychology as an optional course get an additional advantage of greater index marks, which creates a disparity. The College has raised the issue and has brought it to the notice of the Vice-Chancellor of the University. His office has assured to make modifications in the admission criteria for the Programme.

The student profile ensures regular monitoring of their attendance through a centralized system of attendance maintenance. It also helps to identify academically bright students in need of financial assistance to pursue their studies.

2.1.5. Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its students' profiles demonstrate/reflect the national commitment to diversity and inclusion?

SC/ST- The College strictly adheres to the reservation policies set by the Government in the admission of students to SC/ST quota. 20% of the seats are reserved for SC/ST students in each of the Programme. Provision for fee relaxation, remedial coaching in areas of academic weakness, etc. are also provided for their betterment.

Women- Access to higher education for women has been one of the major highlights of the institution as envisioned by our founding fathers. A review of the ratio of women to men indicates that women outnumber men in various academic programmes. The College provides ample opportunities for women and ensures their participation in almost all extracurricular activities. Accommodation facilities in terms of five ladies' hostels, women rest rooms etc. are also provided. The College has a Women's Cell which co-ordinates activities which help in creating awareness about issues related to women and women empowerment. A unit of NCC women's wing and large participation of female students in NSS ensures active involvement of women students in the student activities of Union Christian College, Aluva.

Differentlyabled- Students with physical and visual impairments are admitted to the College as per the University norms, and 3% of the total seats for undergraduate Programme are reserved for differently abled students.

Economically weaker section- Socially and economically weaker sections of the society are identified during the time of admission and relaxation in fee is provided as per Government norms. Apart from this, the College has instituted scholarships and endowments offered to students on the basis of academic merit and financial need.

Minority community- Students belonging to minority Christian communities have 10% reservation to seats for various academicProgramme under community merit quota. The institution ensures that in the self-financing Programme, in addition to the reservation

policies of the government, minority community get due weightage during the admission process. The details of seats reserved under each category are given below.

Table 2.2: Students' enrollment in various classes according to the reservation

Programme offered		Total	Gen	OBC	Musl (Incl. in General)	LC*	OBX*	OBH*	SC	ST	MGT	COM
AIDED COURSES (2015 admission)												
B.A	English	50	36	5	3				7	2		
	Economics	56	24	18	7				12	2		
	History	33	15	12	9				5	1		
	Malayalam	42	14	14	5				13	1		
B.Sc	Mathematics	43	26	12	8				5	0		
	Physics	54	31	15	5				8	0		
	Chemistry	53	30	13	7				10	0		
	Botany	31	19	6	9				5	1		
	Zoology	28	14	10	4				3	1		
	Computer science	30	16	8	4				8	1		
	Psychology	34	25	5	5				3	1		
M. A.	English	17	12	3	2				2	0		
	Economics	16	10	1	5				5	0		
	History	21	9	8	0				4	0		
	Malayalam	16	6	5	2				4	1		
	Mathematics	16	10	2	1				3	1		
	Physics	15	9	4	1				2	0		
	Chemistry	11	7	2	1				2	0		
M. Sc.	Botany	14	6	3	1				2	1		
	Zoology	14	6	5	1				2	1		
	Psychology	13	11	2	4				0	0		
Self Financing courses												
B.Sc	(BT&SP)	24	12	10	6				2	0		
	(E&CM)	27	18	9	3				0	0		
B.Com	Computer application	40	18	19	6				3	0		
	Finance and Taxation	38	16	20	9				2	0		
M. Sc.	Bioinformatics	25	6	6	1				4	0		
	Biotechnology	19	13	5	1				1	0		
M C A		45	12	22	2				11	0		

*Data for LC, OBX and OBH is not available separately. Total number includes these categories of students.

2.1.6. Provide the following details for various Programme offered by the institution during the last four years and comment on the trends, i.e. reason for increase/decrease and actions initiated for improvement.

The College offers undergraduate and post-graduate Programme both in the aided and self-financing streams.

Table 2.3.The details regarding the number of the applications received, students admittd, demand ratio for each Programme during the last four years

Programme offered		Number of Applications				Number of students admitted*				Demand ratio			
Year		2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014
AIDED COURSE: Under graduate courses													
B.A	English	81	91	72	56	10	11	10	10	8.1	8.27	7.2	5.6
	Economics	73	84	56	67	12	12	12	12	6.08	7	4.67	5.58
	History	30	34	29	35	8	6	6	7	3.75	5.67	4.83	5
	Malayalam	24	27	24	25	12	10	10	10	2	2.7	2.4	2.5
B. Sc	Mathematics	29	30	44	47	8	10	10	8	3.6	3	4.4	5.87
	Physics	46	48	53	62	12	11	12	12	3.83	4.36	4.41	5.17
	Chemistry	66	75	89	88	12	11	12	12	5.5	6.81	7.41	7.33
	Botany	23	22	26	34	8	7	7	7	2.87	3.14	3.71	4.85
	Zoology	25	21	33	26	6	7	7	7	4.16	3	4.71	3.71
	Computer science	57	72	52	36	5	6	6	6	11.4	12	8.66	6
	Psychology	58	54	80	96	8	7	7	7	7.25	7.7	11.4	13.7
SELF FINANCE COURSES: Undergraduate courses													
B. Sc	Biological Techniques & Specimen preparation BT&SP	74	83	77	102	5	15	6	18				
	Electronics & computer Maintenance (E&CM)	78	84	94	123	7	18	18	18				
B. Com	Computer application	15	174	204	235	25	25	25	25				
	Finance			224	225			25	25				
SELF FINANCE COURSES: Postgraduate courses													
M.Sc	Biotechnology	43	28	37	47	12	12	10	12				
	Bioinformatics	21	25	28	25	10	10	12	13				

2.2. Catering to Student Diversity

2.2.1. How does the institution cater to the needs of differently abled students and ensure adherence to government policies in this regard?

The College provides additional facilities such as audio records based on the syllabi for visually challenged students to enhance their learning, Infrastructural facilities such as ramps, hostel facilities are provided. Differently abled students are given extra time for completing their examinations and scribes are made availableto assist them in writing examinations. Eligible students make use of these facilities, and one of the visually challenged students in the Department of Malayalam secured the UGC-JRF during this period. At present, there are 17 students in this category who are admitted to various Programmes.

2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the Programme? If yes, give details on the process.

The institution organizes various Programmes to assess the potential of students before the commencement of the Programme.

1. Every year, the institution organizes one day Orientation Programme (OP) for the first year students (UG/PG students) and their parents on the first day of their class. The classes by renowned academicians and experts in various fields offer the students an opportunity to know about the academic Programme in detail along with the nature of curricular and extracurricular activities in the College. Parents are also given an opportunity to attend the orientation Programme along with their wards. During the OP, teachers-in-charge of sports, arts, NCC, and NSS introduce the activities and benefits of corresponding Programme. The Principal and Deans highlight the vision & mission of the College, College motto, history of the College, nature of management, general code of conduct of students, details of academic Programme, fee payments.Feedback regarding the Orientation Programme is collected from parents, which helps the College in furthering improvements of the activities in the subsequent years.

2. Assessment of student potential is done during the time of entry of students.Undergraduate students in science stream, viz., Botany, Chemistry,Physics,etc., are assessed with a multiple choice exam based on higher secondary level syllabi to determine theirlevel of knowledge. This helps in identifying the advanced learners and those with academic backwardness. Based on the scores, students who require additional academic assistance are given remedial coaching.

3. Assessment of student potential is also done through class tests, seminar presentations, and internal examinations. The results are used to identify those students in need of remedial coaching. Based on the above, students with deficits in language skills (mostly English language) are also identified and are given special training classes by teachers from English Department.

2.2.3. What are the strategies adopted by the institution to bridge the knowledge gap of enrolled students (bridge, remedial, add–on, enrichment courses etc.) to enable them to cope with the Programme of their choice?

The institution assesses the learning capacity of students through class test papers, seminars and assignments and provides remedial coaching to enable weaker students to cope with the Programme. Based on the scores obtained in the first internal examination for each course, remedial coaching is provided to those who find it difficult to cope with the learning. Peer teaching and learning is also practiced as a remedial measure. Apart from this tutorial, sessions are arranged by teachers to all students of undergraduate classes outside class hours with a conscious effort to support those students in need of help. In addition, open house meetings with parents are arranged in the odd semesters which help in maintaining a healthy rapport between parents and teachers. The academic progress of students monitored and efforts are taken to enhance their academic performance.

2.2.4. How does the College sensitize its staff and students on issues such as gender, inclusions, environment, etc.?

The institution does not segregate students based on gender of students. Seminars and Programme are conducted addressing these issues.

- 'Harithavarsham' is an initiative of the institution towards raising eco-consciousness among the members of College community and is celebrated every year without fail since the initiation of Programme. Similarly, the College plants saplings every year on the day of commemoration of our founders, and on the occasions of visit of VIPs.

- Nature action club- The Nature action club conducts field visits and awareness Programme to sensitize the students about the importance of environmental issues.

2.2.5. How does the institution identify and respond to special educational/learning needs of advanced learners?

The institution has been associating with the 'Walk Witha Scholar'programme, which is an initiative of the Higher Education Council, Government of Kerala to cater to the advanced learners. A team comprises six students and a mentor teacher. The students are exposed to life skill education Programme, academic mentoring, and mentoring by external resource persons.

In addition, advanced learners have an opportunity to join the Additional Skill Acquisition Programme (ASAP), an initiative of the General Education Department& Higher Education Departments in Kerala, to be trained to become language and life skill trainers in various schools and other academic and non- academic institutions. Advanced learners are also encouraged to become peer tutors, who help the slow learners (academically backward students) in their academic activity.
Besides, every year a student with exceptional qualities is selected for foreign exchange programme. Such students could spend three months in Japan in International Christian University (ICU) attending courses on Service learning. So far 6 students are benefitted programme.

2.2.6. How does the institute collect, analyze and use data and information on academic performance (through the Programme duration) of the student at risk of drop out (students from disadvantage section of the society, physically challenged, slow learners, economically weaker section, etc. who may discontinue their studies if some sort of support is not provided?

Students from the weaker sections of the society and with financial difficulties are provided assistance to securescholarships instituted by the Government and foreign agencies like Kano Yamo Moto, United Board of Christian Higher Education in Asia (UBCHEA)(Scranton scholarship), and other endowments and memorial scholarships instituted by the College.

The class teachers and othe teachers mentoring tutorial groups during their counseling sessions assess such students, and directs needy students to remedial coaching and peer tutoring. Differently-abled students receive extra time to complete their University examinations(30 Minutes for students with vision problem who are able to write exams on their own, 15 minutes extra per hour for students with physical disability, scribes for visually handicapped and interpreters for mentally challenged students). Besides, the College has a group of volunteers associating with the 'pain and palliative care' club who help such students as scribes during examinations.

2.3. Teaching – Learning Process

2.3.1. How does the College plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, blue print)

The College plans and organizes teaching, learning and evaluation as per the academic calendar provided by the affiliating University. In line with this calendar, the College prepares a calendar and handbook with the cooperation of a team of staff members headed by the Principal. The handbook is also uploaded on the College website. The major academic events are indicated in the College calendar for smooth planning and monitoring of the teaching- learning activity.

Considering the factors such as academic calendar, availability of class rooms, etc. a committee constituted by the Staff Council developssemester wise time-table. To fill up the time gap between retirement of teachers and appointment of new faculty, guest lecturers are appointed in accordance with the rules of Government of Kerala and University. In case special classes are required at the end of the semester, special time tables are prepared. In consultation with the staff council, the dates of internal examinations, and the date of declaration of the results etc.are announced in advance,after evaluation of answer scripts, the results are declared and Grievances if any, be addressed.

2.3.2. How does IQAC contribute to improve teaching – learning processes?

IQAC organizes workshops and seminars for faculty members and students on a regular basis for improving and enhancing the teaching learning process.

List of Programme conducted by the IQAC

- Mr. Johny Jospeh, Management Consultant, "Institutional Goal setting and Strategic Planning" three lectures from December to February, 2015.
- Dr. Joe Jesudurai, Dean of Sciences, Loyolla College, Chennai – Autonomy and teachers18/02/2015
- Sri. T. P. Sreenivasan, The Head, The Council of Higher Education of the state of Kerala – Higher education in Kerala
- Dr. Jeyakar Chellaraj, Former Principal, Bishop Heber College, Tiruchirappallli - Value Education– Innovative Teaching Methods10/09/2015
- Dr. R. Mahalakshmi, Associate Professor, Centre for Historical Studies, JNU, New Delhi – Relativity in research 30/09/2015
- Mr. Johny. K. Joseph, HRD consultant – Strategic Planning of the Departments. (16/11/2015 - 20/11/2015)
- Dr. Latha Pillai, Director, Rajiv Gandhi National Institute of Youth Development Teaching, Learning and Research: Exploring Creative Engagement 08/01/2016
- Prof. M. K. Sanu, Retired Professor, Maharajas College& Dr. K. N. Ganesh, Former Head, Department of History, Calicult University –Orientation for teachers 09/06/16
- Rev. Dr. Varghese Puthussery, Director, Santhwana Counselling Centre, Kochi – Achieving excellence in teaching with special focus on student mentoring

2.3.3. How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students.

Flipped classroom and group discussions make learning interactive.Leaner centric methods are offfered by teachers depending upon the subject matter. Service learning centre, resources available in the library and internet and wifi facilities provides teachers with ample facilities. Journal club for PG students, Departmental Association meetings, projects and seminar presentations provide good number of opportunities for students.

2.3.4. How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into lifelong learners and innovators?

Regular Department association activities (weekly once), which include debates, paper presentations, quizzes, extempore, presentations by distinguished alumni help students to foster their communicative skills, critical thinking and creativity. Students are encouraged to participate in various club activities of the College. They also get opportunity to do projects and present their scientific papers in various regional and national conferences.

2.3.5. What are the technologies and facilities available and used by the faculty for effective teaching?

Students and faculty members have access to web consortium rich in e-resources.
Teachers make use of powerpoint presentations, smart classrooms to facilitate lectures.Electronic submission of projects and assignments by students is practiced.

2.3.6. How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops)?

Lectures by experts in various fields are organized by the institute for faculty and students. Departments host workshops, symposium, conferences, regional seminars etc. to get acquainted with the latest development in respective fields.

2.3.7. Details (process and number of students benefitted) on the academic, personal and psycho-social support and guidance services (professional counseling /mentoring / academic advise) provided to students.

- The institute has a counseling centre 'BLISS' (Basic Life Skills Service Centre) which caters to the psychological need of the students. Counselling services and life skills training for students and staff are provided free of cost. Coordinators from each Department identify the students in need and refer them for counseling. Students can also directly approach the counsellors. Life skills training sessions are conducted for different batches of undergraduate and post graduate students periodically. Students are also given study skills training and career counselling. Surveys are conducted to assess the incidence and prevalence of various health needs and problems. Present and former teachers of the Department of Psychology function as counselors.

- Regular tutorial meetings are conducted by teachers of every Department. Mentoring and academic advice is provided by faculty through tutorial Programme. In addition, class teacher system for every class ensures close monitoring of academic activities of students by the teacher and in the maintenance of general well-being of students.

2.3.8. Provide details of innovative teaching approaches/ methods adopted by faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

- Several methods such as
- Lecture method,
- Interactive discussions,
- Computer-assisted learning,
- Experiential learning,
- Seminars and assignments are used for the enhancement of learning process.

2.3.9. How are the library resources used to augment the teaching-learning process?

The library subscribes to an online package of electronic resources through the N-LIST (National Library and Information Services Infrastructure for Scholarly Content) Programme of the UGC-INFLIBNET. These resources could be accessed from anywhere, and that helps students and staff. The faculty and students have open access to all the print resources and electronic resources. During 2016 January – March period, U. C. College was one among the top ten users of the N-LIST at the national level.

2.3.10. Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If yes, elaborate on the challenges encountered and the institutional approaches to overcome these.

The institute follows the curriculum frame work of Mahatma Gandhi University, the syllabi are covered within the time frame.

2.3.11. How does the institute monitor and evaluate the quality of teaching-learning?

Semester wise evaluation is done through written feedback collected from students regarding

- Teachingmethod.
- Teaching quality.
- Interactive classes.
- Teacher knowledge in the respective area.
- Strength and weakness of teachers.
- Syllabi covered within the time frame.

The institution also holds regular open house meetings with parents to provide information to them regarding the academic performance of their wards and obtain their feedback on teaching and learning process.

2.4. Teacher Quality

2.4.1. Provide the following details and elaborate on the strategies adopted by the College in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum

Table 2.4.Qualification of Faculty Members

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
PermanentTeachers							
D. Sc. / D. Litt.	-	-	-	-	-	-	
PDF	-	-	-	-	5	2	7
Ph. D	-	-	8	4	13	15	40
M. Phil	-	-	1	2	3	8	14
PG	-	-	-	2	2	17	21
Temporary Teachers							
Ph. D			-	-	2	1	3
M. Phil	-	-	-	-	1	4	5
PG	-	-	-	-	9	31	40

2.4.2. How does the institution cope with the growing demand/scarcity of qualified senior faculty to teach new Programme/modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.). Provide details on the efforts made by the institution in this direction and the outcomes during the last three years.

The institution has introduced Programme such as M.Sc. Biotechnology, M.Sc. Bioinformatics and Information Technology which have been conducted successfully for more than ten years. The faculty members working in those fields are research oriented and keep themselves updated. Service of researchers in respective fields is sought from other institutions to compensate for the scarcity of senior faculty.

2.4.3. Provide details on staff development Programme during the last four years. Elaborate on the strategies adopted by the institution in enhancing the teacher quality.

a) Table 2.5 Details of the academic staff development Programme

Academic Staff development Programme	Number of faculty nominated
Refresher course	26
HRD Programme	1
FIP Programme	7
Orientation Programme	18
Staff training conducted by Universities	2
taff training conducted by other institutions	2
Summer / Winter school, workshops, etc.	26

b) Faculty Training Programme organized by the institution to empower and enable the use of various tools and technology for improved teaching – learning.

Teaching Learning Methods/Approaches

Handling New Curriculum

- Orientation Programme and workshop arranged for revised curriculum (Choice Based Credit Semester System CBCSS) at the Collegelevel.
- Orientation Programme for CBCSS for teachers and students at Department level.
- Training Programme at university level for new practicalcurriculum.

Selection, development and use of enrichment materials

- Talks led by eminent professors in different subjects to increase the interest and involvement ofteachers.
- With the introduction of ICT, study materials and research publications have been uploaded by the faculty in the concerned pages of the College web site.

Assessment

- Teachers are evaluated by using Self-appraisal forms.
- The peer teacher's evaluation is in place.
- The feedback of students about the teachers is collected at regularintervals.

Audio Visual Aids/multimedia

- Modern teaching practices using interactive boards and LCD projectors implemented as part of technologyenhancement.
- Workshops are conducted to familiarise participants with methods of Information and Communication Technology and modern teaching practices using smart board.

OER

- Selected open educational resources are available for students through the website.

Teaching learning material development, selection and use.

- Training Programme at university level for new practicalcurriculum.
- Special materials was developed for students of slow learners
- Each Department has a library and the books in the Library are selected based on the recent changes in thesyllabus.

c) Percentage of faculty

Table 2.6. Percentage of faculty participated in external workshops / seminars / conferences recognized by national international / professional bodies.

	Workshop	Seminars	Conferences
Resource person	37 (10.2%)	27 (7.5%)	12 (3.33%)
Participation	49 (13.6%)	48 (13.6%)	41(11.38%)
Paper Presenter	65 (18.05%)	59 (16.38%)	63 (18%)

2.4.4. What policies / systems are in place to recharge teachers?

- Teachers have the opportunity to attend seminars, conferences, workshops and other training Programme to recharge them with new and relevant knowledge.
- They are also free to take up major and minor research projects as part of Research Promotion Programme.
- Five major and twenty-two minor research projects are currently being undertaken by the teachingfaculty.
- The institution encourages the teachers to avail of the Faculty Development Programme offered by theUGC.

- The institution and management also supports the Departments in organizing national/international seminars, workshopsetc.
- The institution has nine approved research centers catering to the needs of faculty engaged in research.

2.4.5. Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance / achievement of the faculty

- Dr.Aju K.N.UGC Research award-2012
- Dr.Muse Mary George- Best Research guide-M.P.Paul award.
- Dr.Sibu M. Eapen - UGC Research award.
- Dr.Ruby Elsa Jacob - (Sahitya Puraskar) -Best Research work-2015
- Dr. Jenee Peter –Best research award-UBCHEA, 2015

2.4.6. Has the institution introduced evaluation of teachers by the students and external peers? If yes, how is evaluation used for improving the quality of teaching learning process?

Yes.

The performance of the faculty and the Department are evaluated by College staff councilSemester wise academic audit is conducted by the Department.

The evaluation process helps in improving the quality of teaching and learning in twoways:

- Various aspects of teaching a course are evaluated from a learner's point of view through the student feedback form. The Principal reviews the summarised report of each teacher and shares it with the teacher concerned for further improvement.
- The quality of teaching and learning is evaluated from the management perspective in the Academic Review conducted every year. The Head of the institution maintains a confidential report of every teacher for reference of the management as well as for review by theinstitution.

2.5. Evaluation Process and Reforms

2.5.1. How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation process?

- Orientation Programme are conducted every year for students and parents on the day 1 of the course for first year BA/ B. Sc /B.Com and M.A/ M. Sc programmes.
- Retired faculties of the College as well as renowned persons from various fields serve as resource persons.

- In addition all the Departments conduct separate orientation Programme for the first year students. Such programmes help them to understand the evaluation process and other details of the curriculum.

2.5.2. What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?

Since the College is affiliated to Mahatma Gandhi University, it adheres to the guidelines of the University. The major evaluation reform by the University is the internal and external evaluation under the Choice Based Credit Semester System. Each student has to obtain separately 30% of minimum marks in external and internal examination in all the subjects and also an aggregate of 40% to pass in that particular subject. Out of 100 marks, 80 marks is by external evaluation and 20 by internal evaluation (10 marks for test paper, 5 for attendance and 5 for seminar/assignment/viva).

2.5.3. How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

- The internal examination is conducted centrally by the College and is conducted in the same manner as University examinations are conducted.
- The dates of examination are published in the first month of every semester, the question papers are printed centrally
- The examinations for all undergraduate Programmes are conducted by three days splitting the entire students into forenoon and afternoon sessions.
- After the evaluation of the answer scripts the mark list is also provided to the Principal's office.
- For those who unable to attend these internals due to genuine reasons, department level tests are provided

2.5.4. Provide details on the formative and summative assessment approaches adapted to measure student achievement. Cite a few examples which have positively impacted the system.

The institution follows the assessment pattern as per the guidelines of the affiliated university.

Formative Evaluation

- Assignments are submitted and evaluated in the stipulated time as per the guidelines of the University.
- Class tests conducted periodically by the teachers concerned provide information about the students' progress and give teachers the opportunity to direct the students for improvement.
- Assessment by teachers is also done by asking questions during class hours to ascertain the understanding of the students and to clarify their doubts.
- Two internal exams (both theory and practical) are conducted in each semester. Result analysis of these exams is conducted and steps for improvement like remedial classes are taken up. At the end of every internal exam, the College records the marks of the students in a progress card, and intimates it to the parents.

Summative evaluation

- This is strictly according to the University stipulation. The time schedule is fixed by the University and the valuation is also done at the Universitylevel.

Introduction of the new system of evaluation has made palpable changes in the academic environment in the College. Notable features are thefollowing:

- Interest of students in academic activitiesincreased.
- Students' initiatives in co-curricular and extracurricular activities are increased.
- Skill of students in extracting web resources and ICT supported presentationsincreased

2.5.5. Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioural aspects, independent learning, and communication skills).

- Internal exams are conducted in accordance with the directions of the university
- The schedule of examination fixed in consultation with the staff council, and the examinations are conducted under the supervision of a senior teacher.
- Answer scripts are distributed to students after the examination, and collected back to be centrally stored**.**
- Marks score card displayed on notice board
- Three tier grievance redressal mechanism
- The consolidated evaluation statements are prepared and forwarded to the university.
- While evaluating the seminar presentations and assignments, due weightages are given to students for their scholarly inputs, academic integrity, effectiveness of communication, and control over the topic.
- The percentage of attendance scored by each student is also taken into consideration during the evaluation, as per the university guidelines.

2.5.6. What are the graduates attributes specified by the College / affiliating university? How does the College ensure the attainment of these by the students?

The college envisages following attributes for evey student graduate from the college.

- Discipline specific Knowledge
- Intellectually competent
- Critical thinking
- Communication skill
- Career readiness
- Moral and ethical quality

These are ensured by Value education class, Participation in Club activities, association activities, and participation activites of students' union. College aims at equipping students to get admission for higher education Programme both within and outside state.

2.5.7. What are the mechanisms of redressal of grievances with reference to evaluation both at the College and university level?

- Regarding the internal marks awarded at College level, the student can approach the department level Grievance Redressal Cell mmediately after the publication of score sheet on the noticeboard.
- The College level Grievance Redressal Cell functions as an appallate body to decide on appeals from studemts.
- The University also has formed a Student Grievance Cell which considers matters regarding both internal grades as well as the grades of end semester examinations conducted by the University. The University offers an opportunity to the students to get their answer scripts re-evaluated within a stipulated time.

2.6. Student Performance and Learning Outcomes

2.6.1. Does the College have clearly stated learning outcomes? If yes, give details on how the students and staff are made aware of these?

Yes, the learning outcomes are clearly stated in the objectives of the institution. The primary objective of the College is to provide an environment in which students can enrich themselves socially and academically.The College and all Departments work towards a clearly stated vision and mission.

Apart from the values envisaged in the College motto and the goals & objectives of the College, the institution has the following general learning outcomes

- Communication outcome
  Cammand in written and oral communication
  Language flunency and clarity

- Intellectual outconme
  Proficiency in reasoning skill
  Critical thinking and evaluation

- Ethical outcome
  Good social sensitivity and commitment
  Value system

- Educational Career outcome
  The institution focuses on enabling the graduate students to achieve admission for post graduate in 'A' grade Colleges and universities both within and outside the state.

- Employability.

2.6.2. Enumerate on how the institution monitors and communicates the process and performance of students through the duration of the course/Programme)/ Provide ananalyse of the students results/achievements (Programme/course wise for last four years) and explain if the differences if any and patters of achievement across the programmes/course offered.

- The internal examinations and the University examinations provide an objective measure of the academic performance of the students.
- The results of internal examinations are published and students' progress and pitfall are carefully monitored.
- During the open houses conducted in odd semesters teachers discuss the marks/ grades, and attendance received by students with students and their parents.
- Weaker students are directed to remedial coaching and peer tutoring during these sessions.
- Attendance received by each student is also examined, evaluated and communicated to students in every semester.
- Internal mark score sheet displayed on notice board

2.6.3. How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

- Planning and monitoring done by the staff council & committees
- Completion of portions in the prescribed syllabus on time in each semester by the faculty ensures that the students are well equipped with the knowledge essential for better performance in the examinations.
- Assessments, seminars, group discussion, paper presentations, journal clubs etc. held by the Departments provide a means to assess the students' mastery over the subject. This is assessed meticulously through the internal assessment.
- The external evaluation is done though University examinations in each semester.

2.6.4. What are the measures /initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

- The college has an effective Career Guidance and Placement Cell with a full-time placement officer. The cell offers career guidance and personality development classes from time to time.
- Open courses for the UG students in their fifth semester equip students for setting up acareer.
- The Entrepreneurship Development Club (EDC) in the College also works to nurture entrepreneurs amongstudents.
- Campus interviews are also heldregularly.
- ASAP Programme has also beenimplemented to enhance employability
- Higher education seminars and interactive sessions are alsoconducted.
- Inculcation of research attitude is done through the projects prescribed by the university for all UG/PG Programme, as well as through assignments and seminars.

- Students are encouraged to present research papers in regional/national/international conferences.
- In cooperation with the Start-Up mssion of the Government of Kerala, the College has started a programme to provide training to students in this area
- The institution has tie ups with other organizations which provide internship facility for students.

2.6.5. How does the institution collect and analyze data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?

- Student performnce in academics is assessed through internal and university examinations.
- The results and feedbacks regarding their performances are communicated to the students by respective teachers. This helps in identifying the strengths and weaknesses of students in communicating appropriately in examinations and assignments.
- Results are communicated to the parents through regular open house Programme. This enables the parents to understand their ward's performance and take further steps to improve their academic performance.
- Regular tutorial meetings held by teachers help in identifying the difficulties students have which hinder better performance.

2.6.6. How does the institution monitor and ensure the achievement of the learning outcomes?

- At the time of admission, both academic and personal details, of each student are collected and bridge courses are designed according to the needs ofstudents.
- The achievement of learning outcomes is monitored through the student's performance in class tests, seminars, assignmentsetc.
- Attendance records also help teachers to monitor the performance ofstudents.
- Student performance is analyzed in the Department staff meetings and is communicated to the parents.
- Details of student progression also show achievement of learningoutcome
- The percentage of students getting enrolled for higher education such as post graduation, M.Phil, Ph.D and getting employed through campus and other recruitments, self employment etc. are carefully monitored

2.6.7. Does the institution and individual teachers use assessment / evaluation outcomes as indicators for evaluating student performance, achievement of learning objectives and planning? If yes provide details on the process and cite a few examples.

Students of the institution are expected to perform according to their abilities. Any difficulty on the part of the students to meet the academic requirements is considered as a failure in achieving the desired outcome. Students are provided the required help by the teachers through remedial coaching and improvement examinations conducted regularly.

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

3.1. Promotion of Research

3.1.1.Does the institution have recognized research center/s of the affiliating University or any other agency/organization?

Yes. The institution takes pride in having nine active and leading Research Centres in Malayalam, English, History, Economics, Physics, Chemistry, Botany, Mathematics and Psychology affiliated to the Mahatma Gandhi University, Kottayam, Kerala. The center is having 110 research shcolars working. The centre wise details of the research centres are presented in Table 3.1 below.

Table 3.1 Details of the research centres in the College

Sl. No	Research Department	Year in which registration is granted	University Order No.
1	Malayalam	1989	Ac/AII/1/260/89 dtd 21/7/1989
2	English	1990	Ac/AII/3/2233/89 dtd 3/8/1990
3	History	2004	Ac/AII/1/2103/Hist/2003 dtd 13/7/2004
4	Economics	1993	Ac/AII/3/1441/1993
5	Mathematics	1998	Ac AVI/73/RC/98 dtd 30/12/1998
6	Physics	1985	Ac /AII/ 1/1985
7	Chemistry	1988	Ac/AII/2/505/1988
8	Botany	1985	Ac/AII/1/504/85dtd 29/10/1985
9	Psychology	2013	5937/AVI/1/RC/3381/2012 dtd 16/11/2013

3.1.2. Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

Yes. A research committee is constituted in the College in accordance with the University regulations in this regard. It comprises of the Principal as the Chairman, Supervising Teachers, HOD's as members and Dr. Sebastian Joseph, Department of History as the Convenor. The committee monitors / coordinates research activities in the College and acts as a clearing centre for resolving any issues related to higher research. Details are given in the Table 3.2

Table 3.2 : Research Committee in the College

Sl No	Name of the Faculty	Designation	Department
1	Dr.P.Thomas Mathew **Chairman**	Principal	Botany
2	Dr. Sebastian Joseph **Convenor**	Asst. Professor	History
3	Dr. Muse Mary George	Asso. Professor	Malayalam
4	Dr. C. Jacob George	Asso. Professor	English
5	Dr. Thara .K. Simon	Asso.Professor	Botany
6	Dr. P.V Sreenivasan	Asso. Professor	Chemistry
7	Dr. E.S Jeevanand	Asso. Professor	Mathematics
8	Dr. Rachel Reena Philp	Asso. Professor	Physics
9	Dr. E.I Anila	Asso. Professor	Physics
10	Dr.Anilkumar .M	Asst. Professor	Botany
11.	Dr. Sunil Abraham Thomas	Asst. Professor	Economics
12	Dr. Neelima Ranjth	Asst. Professor	Psychology
13	Dr.Vidya Ravindranadhan	Asst. Professor	Psychology
14	Dr. Seena M. Mathai	Asst. Professor	Psychology

In addition to this there is a course work committee to coordinate PhD course work in the College with Dr. Sebastian Joseph of the Department of History as its Convenor. Other members of the committee are Dr. Anilkumar.M (Coordinator, Science), Dr. Jacob George (Coordinator, Language and Literature) and Dr. Neelima Ranjith (Coordinator, Social Sciences).

Recommendations of the Research Committee

The Research Committee aims at fostering research culture through effectively monitoring Ph.D course work in the College and coordinating various research activities in the College. It acts as a regulatory organization, as per the existing norms of the Mahatma Gandhi University. It has made the following recommendations pertaining to the promotion of higher quality research in various Departments of the College.

1. To inspire faculty members to undertake research Programme with funding from UGC, DST, ICSSR, ICHR, Kerala State Higher Education Council and United Board (UBCHEA).

2. To assist faculty members in developing project proposals through organising research methodology workshops.

3. To invite erudite scholars for engaging classes for the PhD Fellows and teachers of the College.

4. To motivate students to take up research problems as part of their dissertations that has connection with the needs and problems of the society.

5. To conduct course work for research scholars in accordance with the regulations of the Mahatma Gandhi University.

6. To encourage faculty members and Post Graduate students to present papers during national and regional seminars/conferences.

7. To encourage faculty members to publish their works with leading publishing companies.

The impact of recommendations on research and related activities.

- During the post accreditation period, the College conducted Course Work for the research scholars who are working in various Departments of the College and also for those scholars from other Colleges affiliated to Mahatma Gandhi University. As part of the course work, apart from serving as resource persons from the College, eminent scholars from prestigious institutions like Jawaharlal Nehru University(JNU), New Delhi, IISC, Bangalore, Cochin University of Science and Technology(CUSAT), IITS, various University Departments in Kerala and foreign Universities were invited for delivering expert lectures in sciences, social sciences and literature. Following is the list of eminent resource persons who had engaged classes for the course work in PhD Programme.

Table 3.3:Details of eminent scholars as resource persons for the PhD Course work

Sl. No.	Name
1	Dr.Kiran Rao, Director, NIMHANS, Bangalore
2	Prof.Dr.Aditya Mukerje, Prof of History, JNU, New Delhi
3	Prof.Dr.Rajan Gurukkal, IISC, Bangalore
4	Dr.KRM Nair, Controller of Examinations, Kerala Fisheries University, Ernakulam
5	Dr.V C Harris, School of Letters, Mahatma Gandhi university, Kottayam
6	Dr.Eva Ehninger, Art Historian, University of Bern,Switzerland
7	Dr.Pavithran, Dept of Malayalam, Malayalam University, Tirur
8	Dr.Vishnu Namboodiri, Department of Mathematics, Govt College, Harippad
9	Dr.Prakash Kumar, School of Bio Sciences, Mahatma Gandhi University

10	Dr.E.I Abdul Sathar, Dept of Statistics , University of Kerala
11	Dr S Harikumar, Dept of Economics,CUSAT, Ernakulam
12	Dr.Mathachan Pathayil, Dept of Statistics, Nirmala College, Muvattupuzha
13	Prof.Sacaria Zacaria,Visiting Professor of Malyalam , Sree Sankaracharya University, Kalady, Kerala
14	Dr. Sheeba K. M., Dept of History, Sree Sankaracharya University, Kalady, Kerala
15	Dr. Jayasree C.H, Research Coordinator, Kerala State Higher education Council
16	Dr.K.V.Kunnikrishanan, Visiting Faculty, School of Social Sciences, Mahatma Gandhi University, Kottayam
17	Dr.Burton Cleetus, CHS, JNU, New Delhi
18	Dr.Vinod Kumar, Prof , Dept of Basic Sciences, Rajagiri College pf Engineering
19	Dr.Anil, Calicut University, Department of Malayalam
20	Ani Tresa, Dept of History, Sree Sankaracharya University, Kalady, Kerala
21	Dr.Saji Jacob
22	Dr.C.R.Praasd, Dept of MalayalamUniversity of Kerala, Trivandrum
24	Dr K.S Madhavan, Dept of History, University of Calicut
25	Dr.P.G.Sankaran, Dept of Statistics, CUSAT

- During the period under review 34 Minor and 05 Major research projects were undertaken by faculty members affiliated with various Departments on the College.
- 7 teachers were awarded doctoral degrees
- Faculty members have brought out their books with leading publishers like PRIMUS, New Delhi, VDM Scholar Press, SPCSS, etc
- Faculty members have published 115 Papers in journals and seminar proceedings volume
- 06 faculty members have applied for UGC FDP
- Thrust given on development of an inter disciplinary research culture as part of the Ph.D course work programme.
- 8 Faculty members were awarded with UBCHEA research projects
- Ms. Muhsina Noohu, M.A (History) student won the prestigious M.P Paul Award for the best dissertation in History from among the dissertations submitted in History and Malayalam in various Colleges and University centres of Kerala. The award carried Rs 15,000 and a citation.

3.1.3. What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/projects?

The research committee and the IQAC ensure smooth progress and implementation of the projects undertaken by faculty members through its monitoring and effective mediation at critical times. It ensures autonomy for thePrincipal Investigators ensure the release of funds on time and helps the project fellows in completing the technical matters like auditing connected with the use of funds.

The institution supports and ensures a positive ambiance for research activities through the following:

- The institution never interferes with the autonomy of the Principal investigator in matters relating to the research work, appointments of research fellows and purchase of equipment's etc.
- Funds received from UGC and other funding agencies are released on time without causing any hardships for the PI
- The College has well equipped laboratories, library and conference halls for activities connected with research. All Departments are provided with internet facilities.
- The College provides eligible leaves for all research assignments according to Government and University regulations. Faculty members who are selected for FDP are relieved and substitutes appointed on time.
- The faculty members are adequately trained in the use of information technologies of different kinds. Special training in SPSS is given by experts for the faculty engaged in research.
- In auditing and submitting the utilization certificate the office staff assists the faculty.
- The College timely notifies all regulations and latest updates on project completion issued by funding bodies like the UGC, DST and others.

3.1.4. What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

Together with routine academics, the College promotes research aptitude among the students through the following strategies.

- Students are encouraged to attend and present papers during seminars and conferences. The psychology Department during the period under review has 42 paper presentations done by students to their credit.

- To develop interdisciplinary thinking, students are inspired to attend seminars organized by other Departments in the College. It is a culture of the College that students, irrespective of their academic affiliations participate in the research Programme of other Departments.

- Students are encouraged to become members of various clubs in the College which would promote their debate and critical skills.

- Students are encouraged to participate in scientific exhibitions and competitions.

- Post Graduate students are encouraged to attend PhD Course Work classes by erudite scholars.

- Collaborative research with P G students are encouraged by faculty

Some of the best practices followed by different Departments in promoting research among students

1. Zoology

1. PG students participate in national seminars and workshops. Needhu Das C. D., a student of II year PG presented a paper based on her dissertation in the national seminar on Molecular Taxonomy held at St Thomas College, Thrissur in September 2015
2. Original research is promoted among UG and PG students. They work on diverse topics as Biodiversity, Environmental Science, Animal rearing and Pollination studies. Field work is greatly encouraged, so as to inculcate scientific temperament and authentic research.
3. Students are regularly taken on field trips to acquaint them with various ecosystems and methods of biodiversity estimation.
4. Institute visits are an integral part of the curriculum. Students visit research institutes of national repute inside and outside Kerala, and understand research activities there. This exposes them to various research fields, equipments and instruments, and research opportunities in Biosciences.
5. Students are encouraged to publish research articles based on their project. Two papers have been submitted

    - Post Graduate students are encouraged to do quality dissertations with focus on environmental and cultural history

    - Ms. Muhsina Noohu, M.A (History) student won the prestigious M.P Paul Award for the best dissertation in History from among the dissertations submitted in History and Malayalam in various Colleges and University centres of Kerala. The award carried Rs 15,000 and a citation.

    - Some of the post Graduate students have registered for PhD with their research problem drawn from the PG Dissertation

6. The Psychology Department promotes students for paper presentations at various seminars and conferences and 41 papers presented by the students from the period of 2011 to 2016.(Annexture)

3.1.5.Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged inindividual/collaborative research activity, etc.

All faculty members of theCollege are involved in student projects at UG and PG level. In many cases these student projects, especially PG research, are published in journals as well as presented in regional, state level or national seminars and congresses.

Leading Research Projects

.Table 3.4Members are actively engaged in research projects/collaborative research activities.

Sl. No	Department	Name of Research Guide	Name of Student	Status of research
1	English	***Dr. Jacob George***	Akhila Narayanan	Ongoing
2			Rekha Nair	Ongoing
3			Saumya AP	Ongoing
4			Sheenu Varghese	Ongoing
5			Asha Baby Mathews	Ongoing
6			Anu S.	Ongoing
7		***Dr. Varghese John***	Niji C. I	Ongoing
8			Thara Gangadharan	Ongoing
9			Lissy Antony	Ongoing
10	Malayalam	***Dr. C.M.Joy***	Anoop V	Ongoing
11			Shimi Paul Baby	Submitted
12		***Dr. Aju KN***	AshaMathayi	Ongoing
13			Sheena G	Ongoing
14			Lathika K	Ongoing
15			Arunkumar O	Ongoing
16			Rincy P	Ongoing
17			JettishSivadas	Ongoing
18		***Dr. SibuM.Eapen***	Sheeba AC	Ongoing
19			AncyIssac	Ongoing
20			Sidhya Edwin	Ongoing
21			Lakshmi Das	Ongoing
22			Anjali PP	Ongoing
23			Saparna TS	Ongoing
24			RaghiSekharan	Ongoing
25			Bindu Varghese	Ongoing
26		***Dr. Muse MaryGeorge***	Sinu Varghese	Ongoing
27			Shanty C.Y.	Ongoing

28			Divya S.	Ongoing
29			Beena B.S.	Ongoing
30			Lasitha V.B.	Ongoing
31			Vineetha George	Ongoing
32			Lubus Jacob Abraham	Ongoing
33			Rajesh P.S.	Ongoing
34	Physics	***Dr. E.I. Anila***	Bindu K.R	Ongoing
35			Athma. P.V	Ongoing
36			Sreeja V.G	Ongoing
37			Rekha.S	Ongoing
38			Joffy P.J,	Ongoing
39			Ebitha Eqbal ,	Ongoing
40			Safeera T.A,	Ongoing
41			Parvathy Radhakrishnan	Ongoing
42		***Dr. Reena Rachel Philip***	Rajani Jacob	Ongoing
43			Anitha Abraham,	Ongoing
44			Bindhu G.Nair,	Ongoing
45			Sinitha Nair,	Ongoing
46			Aijo K John,	Ongoing
47			Keerthy A,	Ongoing
48			Sheeba Naser,	Ongoing
49			Julie A Abraham	Ongoing
50	Chemistry	***Dr. A. Benny Cherian***	Neethumol Varghese	Ongoing
51			ManjushaHariharan	Ongoing
52			Smitha Roy	Ongoing
53			SindhuThampi	Ongoing
54			Jeemol P.A	Ongoing
55			Asmi Antony	Ongoing
56	Mathemtics	***Dr. Sunny Kuriakose***	Manjusha	Ongoing
57			Mili Mary Sleeba	Ongoing
58			Sheeja T K	Ongoing
59			Murali T. K.	Ongoing
60			Rogi Jacob	Ongoing
61		***Dr. E.S Jeevanand*****(statistics)**	Dhanya M	Ongoing
62			Gilfin Francis	Ongoing
63			Neethu Jacob	Ongoing
64		***Dr. K. K. Thampi***	Joseph Justin Rebello	Ongoing
65			Benno Mathew	Ongoing
66		***Dr. Aparna Lakshmanan***	Jismy Varghese	Ongoing
67			Seena Varghese	Ongoing
68			Ninu S Lal	Ongoing
39			Anu V.	Ongoing
70			Jeepamol J. Palathingal	Ongoing
71		***Dr. S. Arumugham***	Manju Raju	Ongoing

72		***Dr. Mary George***	Ambily M.P.	Ongoing
73	Botany	***Dr. Thara K. Simon***	S. Sreekala	Ongoing
74		***Dr. M.Anilkumar***	Anusree K. Dharman	Ongoing
75			Sithara K. Urumbil	Ongoing
76			Jaya Kuruvilla	Ongoing
77			Linsa J	Ongoing
78			Anumol Jose	Ongoing
79	History	***Dr. Rajan Gurukkal***	Uma Pandey	Ongoing
80		***Dr.P.D. Johny***	Twincy Varghese	Awarded
81			Akhila Jacob	Ongoing
82		***Dr. Sebastian Joseph***	LekhaPillai	Ongoing
83			JiyaTharian	Ongoing
84			JijoJayaraj	Ongoing
85			Meenu Jacob	Ongoing
86			Nisha Ann Jacob	Ongoing
87			Mary Varghese	Ongoing
88		***Dr. C.H. Jayasree***	Bindhu Mathew	Ongoing
89	Economics	***Dr. RajanVarughese***	Liji Lawrence	Ongoing
90			Shaniba M.H	Ongoing
91			Sony Thilakan	Ongoing
92		***Dr. Rejimon P.M***	U. Aboobacker	Ongoing
93			Ameena Poovanchery	Ongoing
94			Krishnan Kutty V	Ongoing
95			Smitha R	Ongoing
96			AshaNeendur	Ongoing
97			Anumol PS	Ongoing
98			Hyderali	Ongoing
99		***Dr. C.A Antony***	Sunil Abraham Thomas	Awarded
100			Lakshmi C.S	Ongoing
101			Priya Mathew	Ongoing
102	Psychology	***Dr. Seena M Mathai***	Asna M. Naorin	Ongoing
103			Nadia Moideen	Ongoing
104			Agimol Suresh	Ongoing
105			Anjaly Surendran	Ongoing
106			Muhsina Lubaiba	Ongoing
107			Swathimol P.S	Ongoing
108		***Dr. Neelima Renjith***	Anu Varghese	Ongoing
109			Lisha P. Balan	Ongoing
110			Neelima C.C	Ongoing
111			Shema Elizabeth Kovoor	Ongoing
112			ReenaDamodar K	Ongoing
113			Mereena Sebastian	Ongoing
114			Anthony Joseph	Ongoing

115		***Dr.Vidhya Raveendranadan***	Saji Anna Philip	Ongoing
116			ShonyMthew P.J	Ongoing
117			Sr. Ciily	Ongoing
118			Jacob George	Ongoing
119			JesnaShivasankaran	Ongoing
120			Anu Singh	Ongoing

3.1.6. Give details of work

3.1.6. Workshops/Training Programme/sensitization Programme conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.

PG and UGDepartments regularly conduct workshops and training programmes with focus on research so as to enable the students, researchers and faculty members to actively participate research Programme in the institution. The IQAC, and other organization in the College, have conducted 9 research oriented programmes on current issues. Apart from the faculty members, the UG and PG students of all Departments are encouraged to take up research oriented topics for their project work under the supervision of their guides in the final semster. The students are also encouraged to present and publish articles in their subjects.

3.1.7. Provide details of prioritized research areas and the expertise available with the institution.

There are nine recognized research centres under Mahatma Gandhi University in UC College. Each centre is undertaking Ph. D Programmems under the able guidance of the supervisors and we also provide facilities for other research guides from nearby institutions to register their students for doctoral work at our centres. In each discipline there are many prioritized areas and faculties are specially trained undermany sub disciplines.

Table 3.5:Table shows the list of faculties and their prioritized research areas.

Sl. No.	Faculty	Discipline	Specilization
1.	Dr. Jacob George	English	English language & Literature
2	Dr. Sonia Chacko	English	English language & Literature
3.	Dr. V.P.Markose	Malayalam	Linguistics and Grammar
4.	Dr. Muse Mary George	Malayalam	Novel, Short Story, Womenstudies
5.	Dr. MI Punnose	Malayalam	Folklore and Cultural studies
6.	Dr. Mini Alice	Malayalam	Womenstudies

7.	Dr. Vidhu Narayanan	Malayalam	Linguistics, Grammar, Translation, Ancient Literature&folkloristics
8.	Dr. Aju K.N	Malayalam	Folkloristics,cultural studies & Film studies
9	Dr. SibuM.Eapen	Malayalam	Poetry, Film studies, Linguistics
10	Dr. E.S.Jeevanand	Statistics	Choasin Economics,Geometric distributions
11	Dr. E.I.Anila	Physics	Nanotechnology
12	Dr. Reena Rachel Philip	Physics	Thin Films
13	Ms. Rakhy Rapaheal	Physics	Peroxidase solar cell
14	Dr. Alex Mathew	Physics	Optical Absorption
15	Dr. Manu Punnen John	Physics	Chaos
16	Dr. Resmi R	Physics	Solar cells
17	Dr. PramodDomonic	Physics	String theory
18	Dr.Madhu K	Physics	String Theory
19	Dr. Shinoj V K	Physics	Optical imaging
20	Dr. Sreenivasan PV	Chemistry	Polymer chemistry
21	Dr. Jenish Paul	Chemistry	Polymer chemistry
22	Dr. Simi Pushpan	Chemistry	Organic Chemistry
23	Dr. Thara K. Simon	Botany	Taxonomy
24	Dr. P. Thomas Mathew	Botany	Taxonomy
25	Dr. David Saj Mathew	Botany	Mycology
26	Dr. ManjuM.George	Botany	Plant Biotechnology
27	Dr. M.Anilkumar	Botany	Biotechnology
28	Dr. Justin R.Nayagam	Botany	Plant propagation
29	Dr. Shirley Thomas	Zoology	Marine biology
30	Dr. Sebastian Joseph	History	Environmental history
31	Dr. Jenee Peter	History	Archaeology
32	Dr. Twincy Varghese	History	Political history
33	Dr.Malini R	Psychology	Educational Psychology
34	Dr.Seena M Mathai	Psychology	Sports Psychology
35	Dr.Neelima Ranjith	Psychology	Health Psychology

36	Dr.Vidhya Ravindranad	Psychology	Educational Psychology
37	Dr.Marikutty P J	Psychology	Clinical Psychology
38	Dr.Sunil Abraham	Economics	Developmental Economics
39	Dr.Ann George	Economics	Developmental Economics
40	Dr.Anil Thomas Koshy	Phy.Education	Sports Psychology
41	Dr.Bindu M	Phy. Education	Sports Psychology

3.1.8.Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

We have invited eminent scholars in different disciplines for expert lectures during seminars, conferences and workshops organized by various Departments in the College. The list of erudite scholars who have visited the College as part of the Ph.D course work is already listed above.

A higher level of academic mentoring as part of the *Walk With a Scholar*Programme of the Government of Kerala is organized in the College since September 2014, for which eminent scholars with proven academic achievements and persons of standing in different walks of life like law, media, health, administration are invited to interact with the students. The Programmeaims at developing a passion in the students in their chosen subjects.

As part of the orientation Programme for the students eminent persons arre invited for lectures.

3.1.9.What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

As per the Govt. rule, there is no provision for availing Sabbatical Leave for researchactivities. Despite this the institution still encourages faculty members to get activelyinvolved in all research-based activities. It promotes research through making it convenient for the teachers in applying for the Faculty Development Programme under the UGC scheme.

3.1.10. Provide details of the initiatives taken up by the institution in creating awareness/ advocating/ transfer of relative findings of research of the institution and else where to students and community (lab to land)

- The Department of Chemistry organized illustration of analytical methods for plus 2 students, conducted exhibition for schools and Colleges. The Department's Instrumentation centre is offering spectral

analysis for researchers and PG students on payment basis. It also organizes intercollegiate and interschool quiz competitions annually.

- The Department of Economics is conducting a Socio-Economic survey to identify the prospects and problems of Karumaloor Grama Panchayat, Aluva.

- The Department of Psychology had conducted surveys in the locality to identify people in need of palliative care. 5 such cases were linked with assistance. The Department also conducting outreach Programme organized by different agencies.

- The Department of MCA had conducted a class for the senior citizens on how to perform various Online Payment Transactions through Net Banking.

- The Department of Zoology tries to inculcate scientific temperament and authentic research in under graduate and post graduate students by making them work on diverse topics as Biodiversity, Environmental Science, Animal rearing and Pollination studies. Field work is greatly encouraged. Students are encouraged to publish research articles based on their project. Two papers have been submitted.

3.2. Resource Mobilization for Research

3.2.1. What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.

During the last five years the College has spent an amount of Rs. 92, 35,000/- for research related activities under the prescribed head.

Table 3.6:Details of the amount spent on research related activities.

Sl.	Head of Expenditure	Source of income	Utilized amount
1	Research lab innovation and purchasing research	FIST,UGC and Management	71,00,000
2	Common instrumentation lab	UGC and Management	7,00,000
3	Purchasing reference book and journals	UGC and PD account	5,00,000
4	10 mbps Connection	Management	1,35,000
5	WiFi- facility	Management	8,00,000
			92,35,000

3.2.2. Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

At present there is no provision to provide seed money for faculty research. However, the Management provides financial assistance, on request, for organizing seminars, as well as the necessary infrastructure and other facilities. Sufficient financial assistance is obtained through recognized funding agencies for promoting research in the institution.

The PTA also provides necessary financial help while conducting seminars and workshops to individual Departments.

3.2.3. What are the financial provisions made available to support student research projects by students?

- The students are permitted to use common College facilities like instrumentation lab in the science Departments, College library, and internet facilities for their researchprojects.
- Students are provided travel allowance to present papers in seminars/conferences.
- Students from the Department of Mathematics and Physics have received scholarships under ASPIRE for conducting researchprojects.
- The students from various Science Departments have benefitted from research development funds received from UBCHEA, and KSSCT

3.2.4. How does the various Departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

Three Departments have undertaken inter-disciplinary research works through minor research projects, workshop and sharing of knowledge.The college has a life science research forum consist of Botany, Bio-Technology and Bio informatics departments which undertake the interdisciplinary research.

3.2.5. How does the institution ensure optimal use of various equipment and research facilities of the institution by it sstaff and students?

- All Departments have sufficient number of computers with Net facility provided to the staff and the students to carry out research-relatedactivities.
- All PG classes are digitalized and enabled with LCDprojectors.
- Botany and Chemistry Department have DST FIST funded Computer labs
- The Collegehas 03 digitalized A/c Conference halls for hosting International/National seminars andconferences.
- Department Libraries and the Central library are equipped with quality collection of books, journals ande-resources.
- The Department of English has a state- of- the art digital Language Lab to improve the communicative skills of thestudents.
- Students can use inter Departmental facilities for theirprojects
- Permission is given to teachers for undertaking interdisciplinary projects and

consultationservices.

- Laboratories of Science Departments are modernized and equipped with updates instruments and equipments.

Table 3.7: List of Latest instrument and equipment.

Department	Added facilities	Funding agency
Botany	UV Spectrophotometer-Shimadzu	DST-FIST
	PCR-Eppendorf	DST-FIST
	Gel-Doc BioRad	DST-FIST
	Electrophoresis Units-Vertical & Horizontal	DST-FIST
	¯80 and ¯20 Freezers	DST-FIST
	UV Trans illuminator	DST-FIST
	Ultracentrifuge- Thermo	DST-FIST
	Spectrophotometer	UGC
Chemistry	UV Spectrophotometer-Shimadzu	DST-FIST
	FTIR- Shimadzu	DST-FIST
	Rotary Vacum Evaparator	DST-FIST
	UTM-Universal	UGC
	Vacum Oven	ISRO
	Muffel Furnace	UGC
	Microwave Synthasizser	UGC
	Flame Photometer	DST-FIST
	Polarographic Analyser	DST-FIST
	Polarimeter	DST-FIST
Physics	Spray pyrolysis equipment	(DAE-BRNS)
	Dip Coating Unit	(DAE-BRNS)
	Spin coating Unit(Women scientist)	DST-IFIST
	Photoluminescence Spectrometer	DST
	Keithley 2401 Source Measure Unit	DAE-BRNS
	Keithley 2450 source measuring unit	KSCSTE
	Spectral response unit-grating	KSCSTE
	Multi source vaccum coating unit	KSCSTE

3.2.6. Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If'yes'givedetails.

Yes, During the post accreditation period the College received a grant of Rs. 87 lakhs from the Department of Science and Technology, Govt. of India under the FIST Scheme for the development of all the Science Departments.

3.2.7Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

Table 3.8: List of UGC Sponsored Minor Projects

Sl. No	Name of Faculty member and Department	Title of the project	Amount sanctioned	Completed/ Ongoing and Year
1.	Dr. AncyEapen, English	"Creative Works as Quasi-Historical Documents: A Study of the Films and Novels set in the background of the Konkan-Koramandel Coast in the 14th and Fifteenth Century."	Rs.1,20,000	Completed, 2012
2.	Suma Mary Scaria,	"The Role of the Media in Defining the Changing Faces of Womanhood in Kerala." 2012-15	Rs.1,50,000	Completed, 2015
3.	Dr. Sonia Chacko	The Making of the New Woman: A Psycho-Social Analysis of the Impact of Women's Magazines in Kerala."	Rs, 1,20,000	Completed, 2015
4.	Dr. Alwin Alexander	"Reconstituting the Self: A Dialogic Study of the Selected Works by Sarah Joseph and their Praxis of a Critical Theology of Liberation."	Rs. 1,00,000	Completed, 2015.
5.	Dr. V.P. Markose, Malayalam	Male represantations in malayalam feminist plays.	Rs.90,000	2012-15
6.	Dr. SibuM.Eapen, Malayalam	Cultural Changes in Kerala through Malayalam cinema	Rs.1,00000	2012-15
7.	Dr. Ruby Elsa Jacob, Hi	The Agony of Women During Indian Sub – continent Partition : A Comparative Study In The Scenario Of Hindi & English Partition Literature	Rs.1,65000	2014, ongoin
8.	Mr, Cijin K Paul	Creation of an ambient picture	Rs. 4,60,000	Ongoing
9..	Dr. E.S. Jeevanand, Mathematics	"Estimation of time to test transform for classical Pareto distribution in some real data situation"	Rs, 1,20,000	Completed
10.	Dr. E.S.Jeevanand	Software Reliability Data Analysis with Stress-Strength Model Using The Power law distribution	Rs. 2,00,000	Completed
11.	Mr. Eldo Varghese	Some Problems in Graph Theory with special reference to Fuzzy Intersection Graphs	Rs. 1,70,000	Completed
12.	Mr. Pratheesh Abraham	An Analysis of Effectiveness of Student Support Systems in individual Performances using Fuzzy Relations	Rs. 1,70,000	Completed
13.	Dr. E.I.Anila	Synthesis and characterisation of nanostructured PbS thin films for photovoltaic applications	Rs. 1,05,000	Completed

14.	Dr, Reena Rachel Philip	Studies on effect of flux on the structural and optical properties of SrS:Cu phosphor – UGC	Rs. 1,52,000	Completed
15.	Dr. Resmi R	Investigations on sensing parameters of CNT-TiO2 nanostructured films.	Rs.3,4,0000/	
16.	Dr. TharaK.Simon,	Phytochemical analysis and DNA sequencing of two species of podostemaceae of Kerala Rivers	Rs.1,20,000	Completed
17.	Dr, David Saj Mathew	"Selection of root rot resistant Coleus forskohlii plants"	Rs.1,30,000	Completed
18.	Dr. P.M.Kuriachen	"Histopathological Studies on some common fruity vegetables"	Rs. 1,20,000	Completed
19.	Dr. Manju M. George	"Tissue culture studies in *Coleus forskohlii*-an important medicinal Plant	Rs.1,45,000	Completed
20.	Dr. Manju M. George	"*In vitro* propagation in *Barlerialupulina*Lindl." –	Rs. 1,40,000	Completed
21.	Dr. Anilkumar M	Phytochemical and antibacterial screening of Simaroubaglauca DC	Rs. 1,25,000	Completed
22.	Dr. A. Benny Cherian, Chemistry	Synthesis of toughened unsaturated polyester Resin	Rs.1,30,000	Completed
23.	Dr. K.P. Unnikrishnan, Chemistry	Development of particulate filled epoxy resin	Rs.1,40,000	Completed
24.	Dr. P.V. Sreenivasan, Chemistry	Preparation of super tough thermoplastic from polystyrene and powdered nitrile rubber	Rs.1,45,000	Completed
25.	Mr. Jenish Paul, Chemis	Glass fibre reinforced epopxidizedsiloxane modified epoxy system for high strength applications	Rs.1,45,000	Ongoing
26.	Ms. Smitha Roy, Chemis	Isolation of chitin and its interaction studies with organic dyes (Computational and Experimental)	Rs.1,90,000	Ongoing
27.	Dr.SimiPushpan K, Chemistry	Synthesis and characterization of selected Privileged structure bearing Dipyrromethanes.	Rs.5,00,000	Ongoing
28.	Miss Juby John	Envisioning Female Agency-Tracing the History of the local women,workers of the CMS Mission-19th and 20 th Century	Rs.170000	Ongoing
29.	Dr.Sunil Abraham Thomas	Are Prices Sticky	44,000	Ongoing
30.	Mr. Shyam Mohan, Bioinformatics	In-Silico Drug target identification against Cyclooxygenase -2(Cox 2)-A key enzyme Mediating inflammation	Rs.3,50000	Ongoing
31	Liji Lawrence,	'Emergence of rural non-farm economy: Implicati to movement of labour and land conversions in	Rs. 1,15000/	Completed

		Central and Southern Kerala',		
32	Nino Baby,	'towards sustainable development through CFL usage under Clean Development Mechanismprojects: A case study of domestic energy consumption in rural Ernakulam',	Rs. 1,00,000	Compleed
33	Rajalakshmi R,	Migration and Inclusive growth in Kerala; A case study of migrant construction workers in Kochi,	Rs.1,30,000/	Ongoing
34	Tresa Divya T.J,	"Marginalization of Urban Poor Population Kochi", UGC Minor Research Project –	Rs. 1,50,00	Ongoing`
35	Dr. Bindu M.	Body image perception, self esteem, and dietary practices: Comparison between women ath and Non-athlets of college level	Rs. 1,35,00	Completed

Major Research Projects

1. **Dr. M.Anilkumar**
   - Department of Botany - Kerala Biotechnology Commission sponsored Project titled In vitro anti-inflammatory activity of the leaf extracts *Litseaquinqueflora* Dennst Suresh.
     Amount obtained: 16, 11,500/ -Duration-3 years
     Period of study- April 2012-April 2015Status of project-Complete
2. **Dr. Anila E.I**
   - Department of Physics - DST Sponsored project on Prepration and Characterization Nano phosphorus for display and biomedical applications.

Amount obtained: 32, 54,102
Period of study- 2012-2015
Status of project-Completed

- BRNS-Fabrication and characterization of transparent conducting oxide thin filims for optoelectronics application.

Rs.22,66,500 Duration of the study2015-18

3. **Dr. Reena Rachel Philip**– DST sponsored project-Fabrication and Characterization of Hybrid Solar Cells of a Novel Configuration with I-III-VI OVC and II-VI or IV – VI nanostructured thin films

- UGCand DAE, KSCSTE, Minor Research Project (UGC)
  Amount obtained: 1486618/-
  Period of study-2013-2016.
  Status of project-Completed
- TiO2 nanotubes as electrodes in supercapacitors and junctions in photovoltaics UGC DAE Rs.6, 89,400/-(2014-17)Status of project-Ongoing
- Fabrication and characterization of hetero Junction solar cellsFTO/n-silver indium gallium selenide/p-silver indium selenide/metal(Scientist Mentor)

KSCSTE Rs. 160000 Period of study-2014-17 Status of project-Completed

Table 3.9: Details ofUGC Sponsored Minor/Major and other Projects

	Number	Total grant
Minorprojects	35	Rs. 54,46,000/-
Majorprojects	6	Rs. 93,08,120/-
Interdisciplinary projects	-	-
Industry Sponsored	-	-
Students' researchprojects	2	Rs. 27,20,000/-
Anyother UBCHEA	16	Rs.47,43,000/-
DST- FIST	Department of Chemistry Department of Botany	Rs. 42,00,000 Rs. 47,50,000

Total 3,11,671,20

3.3.ResearchFacilities

3.3.1. What are the research facilities available to the students and research scholars within the campus?

The College has 09 Research centres, where 110 researchers and students can carry out quality research in a serene atmosphere. Some of the facilities made available to research scholars and students are:

- Research Rooms for all ResearchDepartments.

Malayalam, English, History, Economics, Physics, Chemistry, Botany, Mathematics and Psychology

3.3.2. What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

- Union Christian College is a higher learning institute, which encourages

students and faculty members to undertake research by applying recent trends.

- The Research committee of the College provides information regarding Minor and Major Research projects, about the funding agencies and on the timely submission of the projects.
- The Collegehas shown a significant increase in the number of faculty members and students undertaking research projects in new and emerging fields.
- The College makes all efforts in encouraging the results of the research projects undertaken through publications in peer reviewed National and Internationaljournals.
- The Physics, Botany and Chemistry Departments have acquired sophisticated and essential instruments needed for research through the funds generated through research projects and funding from Govt. agencies like DBT, DST and FIST.
- The College provides support in updating the infrastructure facilities enabling students to explore the emerging areas of research. The College has well equipped Science ResearchLaboratories.

3.3.3. Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities? If 'yes', what are the instruments/ facilities created during the last four years.

Yes**.**

- The institution has received Rs. 87 lakhs from FIST for developing research facilities and procuringinstruments.
- From the fund received from the UGC, the College has been successful in constructing Laboratories and smart classrooms.
- Some of the facilities acquired by each Department through grants received from UGC Minor Research project, Major project and DST - FIST are listed on page number 1

3.3.4. What are the research facilities made available to the students and research Scholars outside the campus/other research laboratories?

a. External Library facilities utilized:

- M. G. University Library, Kottayam
- CUSAT Library, Cochin
- University Library, Trivandrum (Malayalam Dept.)
- Kerala Sahitya Academy Library, Thrissur (MalayalamDept.)

b. Analytical facilitiesUtilized:

- Sophisticated Test and Instrumentation Centre-CUSAT
- School of Pure and Applied Physics -M. G. University
- IIT- Chennai
- NIT Calicut
- Raman Research Institute -Bangalore
- Dept. OF Photonics and Physics-CUSAT
- School of Chemical Science-M.GUniversity

c. Research institute facilities utilized:

- Jawaharlal Nehru Tropical Botanical Garden and Research Institute (JNTBGRI), Palode,Trivandrum
- Rubber Research Institute of India,Kottayam

d. Industrial facilities utilized:

- Rubber Research Institute,Kottayam;

3.3.5. Provide details on the library/ information resource center or any other facilities available specifically for the researchers?

- The College has more than 80000 books. It includes reference books, journals, periodicals, manuscripts and editions of rarebooks.
- All Departments have good library facilities that cater to the needs of the students as well as facultymembers.
- Internet, Wi-Fi facilities are available to all students and researchscholars.
- Copies of projects of UG & PG students made available for easy reference at Departments.
- Online facility for quick and easy reference of Ph.D. thesis and M.Phil dissertation are made available for research scholars and students.
- Hard copies of all Ph. D theses by research scholars and faculty members are made available in the Departments and in the Central library for readyreference.

3.3.6. What are the collaborative research facilities developed/ created by the research institutes in the College. (For ex. Laboratories, library, instruments, computers, new technology etc.)

- Faculty members who are research scholars in other university centres make use of facilities like lab, library and new technology that are available.

- Faculty members such as Dr. M. Anil Kumar, Dr. Anila E.I., and Dr. Reena Rachel Philip who have undertaken Major and Minor projects have collaborations/ linkages with otherinstitutions.

3.4. ResearchPublicationsandAwards

3.4.1. Highlight the major research achievements of the staff and students in terms of

- Patents obtained and filed : Nil

3.4.2. Does the Institute publish or partner in publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

No.

3.4.3 Give details of publications by the faculty and students: (List provided as annexure)

Table 3.10 : Details of publications by the faculty and students:

	Number
Paper Published in journals	450
Students Publications	41
Chapters in books	30
Books Published	8
Book edited	35
Books with ISBN number	5

3.4.4. Provide details (if any) of Research awards received by the faculty

Table 3.11: Research awards received by the faculty

Department of English	Smt.Akhila Narayanan	FLAIR-2015
Department of Malayalam	Dr. Muse Mary George Dr. Aju Narayanan:	M.P.Paul Award-2015 Best Research Guide UGC Research award-2012
Department of Hindi	Dr. Ruby Elsa Jacob	Sahitya Puraskar-2015 Best Research work
Department of Physics	Dr. Resmi R	FLAIR-2015
Department of Botany	Dr. Justin R. Nayagam Mrs. Anumol Jose	Best paper award-2015 FLAIR Programme-2014
Department of History	Dr. Sebastian Joseph Dr. Jenee Peter	British Council Charles Wallace Travel Grant-2013 Won the award for the best paper- Centre for Heritage Studies (CHS)
Special Kerala State Film Award	Sri Cheri Jacob Dr. Aju Narayanan:	2015

3.5. Consultancy

3.5.1. Give details of the systems and strategies for establishing institute- industry interface?

- The College encourages each Department to establish institute-industry interface.
- A committee of consultancy service for promoting faculty members to render their expertise and knowledge to the community is functioning in the College.
- Department of Physics, Botany, Bio–technology, Psychology, Bio-informafics, Computer Science, and History offer consultancy services to industries, academies and to the local community. The major areas of competence offered by each Departmentare given below:
- The Department of Chemistry provides UV& IR facilities for research.The Department isoffering these instrumentation facilities to Physics, botany and Bio – technology Department of our College free of cost and also to various Colleges and industries.
- The Department of Computer Science offers coaching for students to clear HSST computer science exam.Out of the 40 participants 15 of them are in the short list of the PSC.
- The Department of Zoology had established a vermiculture unitinside the campus. Earthworms were introduced to the unit and fed with organic and household waste.Vermicompost was prepared and used in organic farming practices in campus and for sale.
- The Department of Mathematics had conducted mathematical quiz competition for Higher Secondary Students to popularize mathematics among school student.

3.5.2. What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

The stated policy of the institution to promote consultancy is to offer expertise thatbenefits society. The faculties are encouraged to share their expertise withindustry/institution, free of cost. However, when income is generated, it is usedfor the development of the concerned Department. An amount of Rs.66650/- was generated through consultancy.

3.5.3. How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

Teachers are encouraged to undertake consultancy services by making use of the facilities available in the College. Details of major consultancy services provided by the faculty are listed below:

Table 3.12(a): Consultancy services provided by the faculties

Sl No	Faculty	Department	Area of expertise	Beneficiaries
1	Dr.Neelima Renjith	Psychology	Parenting skills	Parents of pre-school children, Rajagiri schoolKalamassery
2	Ms.Syna SoosanAbraham	Psychology	Member, panel of expert	Aviation security CIAL
3	Prof. Syam Mohan	Bio informatics	Bio informatics	Students St Mary's College Trissur
4	Dr. Sebastian Joseph Dr. Sebastian Joseph	History History	Research Guide andResearch WorkConsultant	Research students of other Institutions
			Environmental history	Students and teachers of various Colleges and universities.
5	Mr.Cijin K Paul	Computer Science	Computer	Coaching for Kerala State Public Service Commission
6	Dr.P.V.Sreenivasan	Chemistry	Provides UV& IR facilities	Research Scholars
7	Dr.Shirley Thomas	Zoology	Vermicomposting	Community
8	Ms.Elizabeth V. Mathew	Zoology	Ornamental fish rearing and breeding	Community

3.5.4. List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

Table 3.12(b): Majorconsultancyservicesprovided bytheinstitution

Areas of consultancy	Department	Income Generated
Provides UV& IR facilities for research	Chemistry	Rs.3000/-
Coaching for KPSC **HSST computer science**	Computer science	Rs. 40000/-
PL and spray research facility	Physics	Rs.50000/-
NET coaching	Computer science	Rs 15000/-
Counseling	Psychology	Rs. 4000/-
Psychological assessment	Psychology	Rs. 2000/-
Consultancy in Arachnology (Taxonomy of Spiders	Zoology	Rs. 1000/-
Consultancy in Vermicomposting	Zoology	Rs.420/-
Consultancy in Ornamental fish rearing and breeding	Zoology	Rs.630/-
Organic Farming	Zoology	Rs. 600/-
	TOTAL	Rs. 1,16,650/-

3.5.5. What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

The consultancy services offered by the faculty are mostly free of cost. However, remuneration or small amounts that have been received from many agencies have been utilised for the development of the concerned Departments.A policy to be framed ana approved by the management of the College.

3.6. Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the institution promote institution- neighbourhood- community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

- Extension activities and outreach Programme beneficial for the local community and neighborhood institutions are organized by various clubs, Department associations and Women's cell, to promote social responsibility among the students to develop their personality and leadership quality. The IQAC Coordinator and member in charge of extension activities coordinate and monitor these activities.
- NSS and NCC units functioning in the Collegeundertake socially useful acivities, promoting the holistic development ofstudent
- PTA/Alumni contribute resources/finance to the institution's social endeavours in addition to their own extensionactivities.
- Department of Economics and Physics conducts Programme with student and community support for public awareness on environmental issues, nature and energyconservation

3.6.2. What is the Institutional mechanism to track students' involvement in various social movements/ activities which promote citizenship roles?

- The election of College Student's Council provides an opportunity for realizing democratic values and responsibilities among thestudents.
- Several clubs (Registered and others) are functioning in the College and students are encouraged to take membership in any of these clubs. Students get opportunity to plan and execute Programme through theseplatforms.
- Organizations such as NSS, NCC organize forums for students to involve incommunity oriented activities such as Pain and Palliative Care Unit, blood donation, Home for poor etc. and teacher in charge ensure theparticipation.All groups maintain and update records or registers oftheir activities.

3.6.3. How does the institution solicit stakeholder rperception on the overall performance and quality of the institution?

- Feedback on academics, extracurricular activities and infrastructural development are collected regularly

- From students through suggestion boxes inDepartments.
- PTA executive and general bodymeetings
- Staff meeting conductedregularly
- Open house forparents
- From alumni in alumni meet conductedannually

3.6.4. How does the institution plan and organize its extension and outreach Programme? Providing the budgetary details for last four years, list the major extension and outreach Programme and their impact on the overall development of students.

- Each Department plans its extension activities and outreach Programme at the beginning of the academic year and prepares an actionplan.
- The NCC, NSS and College students council are also actively involved in the task of organizing the extension and outreachProgramme.
- The IQAC monitors, plans and executes its own extension and outreach Programme

Table3.13: Budgetary details of extension and outreach Programme

Major extension / outreach Programme		Budget Utilized			
	2012-13	2013-14	2014-15	2015-16	
Environment Awareness	24000/-	60000/-	38000/-	102000/-	Created awareness among students and public and developed positive attitude towards nature.
Academic Assistance	21000/-	31000/-	23000/-	20750/-	Inculcated the values of care and affection towards the fellow students and the needy community
House Construction	--------	565000 /-	100000/	212000/-	Compassion to poor
Medical Support	65000/-	94000/-	24000/-	123000/-	Instilled empathy in students

Orphanage visit	4000/-	-	5000/-	-	Created awareness about the Compassion for lonely ones
Disaster Relief Fund	-----	10000/-	-	12000/-	Developed the spirit of compassion

3.6.5. How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

- NSS Programmeofficers attended Facilitator Training Workshop under the auspices of theActive Citizenship Programme jointly organized by Rajiv Gandhi National Institute of Youth Development and Mahatma Gandhi University. This give to our institution for taking up socially oriented activities through NSS. The Programmeofficers train thirty NSS volunteers of our institution.
- Students are encouraged to join the activities like the NCC, NSS, at the time of theiradmission. The spirit of service and goodwill are instilled in the students through mentoring, value education and awarenessProgramme.
- The teacher coordinators conduct orientation classes to inspirestudents.
- Students and teachers participate in blood donation camps and campaigns, extends help to patients of palliative care and victims of naturalcalamities.
- Students are awarded marks for their participation in NSS/NCC activities as per Universitynorms.
- The students are honored with certificates and cash prizes for their achievements on Collegeday.

3.6.6. Give details on sociall surveys, research or extension work (if any) undertaken by the College to ensure social justice and empower students from under-privileged and vulnerable sections of society?

- The Economics department conducted Health, Economic and Social Surveys in the nearby village and compiled the survey report, drawing a blue print of the Programmes to be organized.
- Training/skill development Programme arranged for widows by MCA and MBA Departments.
- Women Cell arranges self defense classes every year to empower women and underprivileged sections ofsociety. Women cell organized a Programme for the Kudumbasree members and equip them in soft skills and making them capable ofself-employment.

3.6.7. Reflecting on objectives and expected outcomes of the extension activitie sorganized by the institution, comment how they complement students' academic learning experience and specify the values and skills inculcated.

The extension activities have contributed immensely in complimenting the students' academic learning process.

Table 3.14: Expected outcomes of the extension activities

Extension Programme	The values and skills inculcated
Educational sponsorship: Taking special tuition regularly for boys and girls from V H Colony, Aluva by Psychology deprtment	Developed a sense of social responsibility, concern for fellow beings in need.
Harithavarsham: Eco-friendly activities. Water auditing	Spreads the idea of sustainable development Developed ecological sensitivity and need for conservation of resources
Detergent making Awareness Programme	Developing a skill of self-employment Sensitizing towards ecofriendly power conception
Programme against alcoholism & drug abuse Janamythri police, Kerala action Force	Awareness among students
Lab visits by neighbouring schools	Sharing resources with towards the less privileged and instilling the sense of social responsibility
Self-defense classes for women	Self confidence
Swachh Bharath Abhiyan- Cleaned, KSRTC buses, public road sides, Harithavanam, College premises	Environmental conciousness

3.6.8. How does the institution ensure the involvement of thecommunity in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encouragecommunity participation in its activities?

- The institution ensures the involvement of the community in its reachout activities for community development organized by NSS, NCC, Sports and other Departments.
- In all community and extension programmes, local community leaders are invited and the College ensures their active cooperation.
- The College takes initiative in convening meetings with the local administration for the implementation of all extension activities.
- The local authorities also extend their whole hearted support for the extension programmes envisaged by the institution.
- The NSS, NCC, Nature action club, etc collaborate with the local bodies in their various projects related to health, traffic awareness, hygiene, sanitation, literacy, renewable energy, pollution control, social evils, blood and eye donation, environment conservation etc., and contribute much to community development and social progress.

3.6.9. Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

The institution has constructive relations with other institutions of the locality. Thefollowing constructive relationships have been forged with other institutions in thelocality for working on various outreach and extension activities. The extension activities carried out by various Departments are the following:

Department of Chemistry

- Plus two students from various schools are doing their project in our lab free of cost.

- Chemistry exhibition for schools and Colleges in 2012. 300 students from 6 schools benefited by this

- Intercollegiate and interschool quiz competitions conducted annually Students from various Colleges and schools participating in our annual quiz Programme get an opportunity to visit the laboratories and participate in demonstrations of in-house sophisticated instruments held by the faculty of the Department.

- Teachers in the Departments giving expert opinion on project in various schools.

Department of Economics

- Department is conducting a Socio-Economic survey to identify the prospects and problems of Karumaloor Grama Panchyat, Aluva.

Department of Bio Technology

- Ayurvedic camp was conducted in collaboration with Arya vaidya sala, Kottakkal on 4thJune, 2015. All the residential of the Karumallor gramapanchayath were invited for the camp.

Department of History

- In 2013-15, Associated with Handloom promotion Department, Government of Kerala in the one day awareness seminar held in the College for the NSS students in December 2013

- Associated with NSS, U.C College in the cleaning of the Khadi unit at Kunnukara inDecember 2014- Weaving Lives Project
- In 2012-13, 2013-14, 2014-15, 2015-16- mentor of Service learning Programmer /international student exchange with International Christian University Tokyo- three students

- YMCA Summer Coaching Camp, Aluva Rural : Resource person May 2013, May 2014

- Led a training session for school students as part of the Students Learning and Trainingon Environment (SLATE) Programme organized by Paristhithi Samrakshana Sangham at Islamic Higher Secondary School, Aluva on 11 July 2015.

Department of MCA

Programme	Date/participants
A Session on how to use internet, e-mail, video conferencing, etc	19-21 Dec 2011. The classes were conducted for the Senior Citizens
Refresher Programme on how to use internet, e-mail, video conferencing, etc	17/03/2012. The classes were conducted for the Senior Citizens and Session on how to use internet, e-mail, video conferencing, etc
A Session on Stress management for women by Mrs Seena Mathai of psychology Department, UCC	13/03/2013, The classes were conducted for the girl students
A session on – How to perform various Online Payment Transactions through Net Banking	24/04/2015 and 30/05/2015, The classes were conducted for the Senior Citizens

Department of Physical Education

Programme	Date/participants
Cricket coaching camp for school students	On all Saturdays
Karate coaching camp for community	On Tuesdays and Thursdays
Rollerskating Camp	On all Fridays
Summer coaching camps in Hockey	April

3.6.10. Give details of awards received by the institution for extension activities and/ contributions to the social/community development during the last four years.

Nil

3.7. Collaboration

3.7.1. How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives -collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

The Departments of the institution take the initiative to collaborate with research laboratories, various universities and industry for research activities.
TPS-21 Day Training (ASAP AdditionalSkills Acquisition Programme) is conductedby the Department Of English in collaboration with the Government of Kerala. The screening examination of the course (APTIS) is conducted in collaboration with the British Council.

Department of physics had collaboration with the following Institutions:

1. Cochin University of science and technology.
2. IUC-DAE Consertium Indore.
3. BITS Goa.
4. IIT Madras, Chennai.
5. Hope College Michigan.
6. Universiat politecnica de Catalunya, Spain
7. CINVSTAV, Mexico
8. International christianUniversity Japan.

Department of chemistry is conducting a Certificate course in Environmental studies sponsored by UBCHEA(United Board of Christian Higher Education Asia)

3.7.2. Provide details on the MoUs/ collaborative arrangements (if any) with institutions of national importance/ other universities/ industries / Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

MOUs

1. International Christian University, Japan.
2. Hope College, Michigan, USA
3. Fu Jen Catholicate University, Taiwan
4. Government of Kerala (ASAP)
5. Synthyte Industires, Kolenchery
6. Medical Mission College, Kolenchery
7. Central Marine Fisheries Research Institute, Ernakulam
8. Start-Up Mission, Governemnt of Kerala

Additional Skill Acquisition Programme (ASAP), Government of Kerala to improve the employability quotient of Undergraduate students of Arts and Science Colleges.

Collaborations

All science Departments have collaborative arrangements with leading research institutes inKerala.

The collaboration with the following institutions resulted in the Publication of research papers in International/National journals, Organizing seminars and PG projects

3.7.3. Give details (if any) on the industry-institution community interactions that have contributed to the establishment/ creation/ up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories/ library /new technology / placement services etc.

Up gradation of academic facilities

- Collaboration with various research institutions has helped in the upgradation of academic and research facilities. It has also led to infrastructural development of theinstitution.
- The funds received from the Major and Minor research projects have been utilized to develop laboratory facilities and other amenities to enhance further researchactivities.
- The purchasing commmitte of the College approves the list of amenities to be purchased and open tenders floated with advertisements in the national and state newspapers as per the prescribed rules laid down by the UGC, Mahatma Gandhi University and Government ofKerala.

Student Support

- Walk With a Scholar (WWS) is a new initiative programme of the Kerala Government to inculcate research culture amongstudents.
- Scholar Support Programme (SSP) is an initiative programme of the Kerala Government to extract the best scholars from the institutions to give them special erudite training so as to motivate them to become elitescholars.

Creation of infrastructuralfacility:

- Laboratory facility for Zoology.
- Training and production of Ornamental Fishculturing
- Central instrumentationlaboratory
- Photonics laboratory
- Language Laboratory
- DTPfacility

3.7.4. Highlighting the names of eminent scientists/ participants who contributed to the events, provide details of national and international conferences organized by the College during the last four years.

Table 3.16 Eminent scientists who contributed to international/National/ conferences

Sl. No.	Name	Institution	Department
1	Dr. Dona Mathew Scientist SG	Head, Advanced Polymers and Ablative section, Polymers and Speciality Chemicals, VSSC	Chemistry
2	Dr. Suresh Mathew Director	School of Chemical Sciences, Mahatma Gandhi University, Kottayam.	Chemistry
3	Dr. Deepthy Menon Associate Professor	Amrita Centre for Nanosciences and Molecular Medicine, Kochi	Chemistry
4	Dr. Saju Joseph, Assistant Professor	Center for Nanoscience and Nanotechnology, Mahatma Gandhi University	Chemistry
5	Dr. Eby Thomas Thachil Professor & Head	Polymer Science & Rubber Technology, CUSAT Cochin	Chemistry
6	Dr. C.Gouri Scientist SG	LFCD-ESG,VSSC,Trivandrum	Chemistry
7	Dr. C.P. Reghunathan Nair,Scientist G	Group Director, Polymers & Special Chemicals Division VSSC, Trivandrum	Chemistry
8	Dr. K.R. Dayas, Director	(C-MET), Trichur	Chemistry
9	Dr. Deepthy Menon Associate Professor	Amrita Centre for Nanosciences and Molecular Medicine, Kochi	Chemistry
10	Dr. Sabu Thomas Director	School of Chemical Sciences MG University, Kottayam	Chemistry
11	Dr. S. Prathapan , Assistant Professor	Cochin university of Science and Technology	Chemistry
12	Dr.S.A.Ilangovan	Head,EnergySystem Group,VSSC,Trivandrum	Chemistry
13	Dr.Sajan Joseph	SeniorScientific Advisor,Discovery Research and Technologies USA	Chemistry
14	Dr.Sreekumar, Professor and Head	Department of Applied Chemistry,CUSAT	Chemistry

15	Dr. K.R. Muraleedharan, Controller of Examinations & Professor in Statistics,	Kerala Fisheries University	Mathematics
16	Dr. E. I. AbdhulSathar	Resource Person for course work of Ph.D. Programme,	Mathematics
17	Dr Vishnu Namboothri K., Assistant Professor,	BJM Govt. College, Chavara	Mathematics
18	Dr.P.Vinod Kumar, Assistant Professor,	Department of Basic Science, Rajagari Engineering College.	Mathematics
19	Prof Irudaya Rajan	Centre for Development Studies, Trivandrum	Economics
20	Dr Venkatesh Athreya	Professor, Pondicherry University	Economics
21	Prof Praveen Jha	JNU, New Delhi	Economics
22	Dr. Prabhat Patnaik	Professor, JNU New Delhi	Economics
23	Prof Amit S Ray	Director, CDS, Trivandrum	Economics
24	Dr Surajit Das	JNU, New Delhi	Economics
25	Dr K.K George	Director, CSES, Kochi	Economics
26		Professor, IGIDR, Mumbai	Economics
27	Dr. B Ekbal	Former VC, Kerala University	Economics
28	Mr. C J George	MD, Geojit Securities	Economics
29	Prof M.A Oommen	Emeritus professor, ISS, New Delhi	Economics
30	Dr Anuradha Balaram	Member secretary, Kerala State Planning Board	Economics
31	Prof Rajan Gurukkal	Professor, IISC, Bangalore	Economics
32	Justice K.T Thomas	Retired Judge, Supreme Court of India	Economics

33	Dr. T.M. Thomas Issac MLA	Former Fellow Centre for Development Studies, Trivandrum & Former Finance Minister, Govt of Kerala.	Economics
34	Dr. K.M. Seethi	Professor, School of International Relations & Politics & Director, KN Raj Centre,Mahatma Gandhi University	Economics
35	Dr. Shaji Varkey	(Professor, Department of Political Science, Kerala University	Economics
36	Dr. Jose Sebastian	(Associate Professor at *Gulati Institute* of Finance and Taxation, Trivandrum)	Economics
37	Dr. D. Prasanth	(Chief, Plan co-ordination Division, Kerala State Planning Board, Trivandrum)	Economics
38	Dr. D. Narayana	(Former Director, Gulati Institute of Finance and Taxation, Trivandrum)	Economics
39	Dr. Harikumar S.	(Professor, Department of Applied Economics, Cochin University)	Economics
40	Dr. Martin Patrick	(Director, Rural Academy of Management Studies,Cherai)	Economics
41	Rev. Prof K V Paulose	(Former HOD, Department of Economics, Baselious College, Kottayam)	Economics
42	Mr. Midhun V.	(Assistant Professor, Govt. Law College, Trivandrum|)	Economics
43	Dr. Tomy Varghese	(Former HOD, Department of Economics UC College, Aluva	Economics
44	Mr. R. Mohan	(Additional Commissioner, Income Tax Department, Kochi)	Economics
45	Dr. Mathew Kurien	(Joint Director, KN Raj Centre, Mahatma Gandhi University, Kottayam)	Economics
46	Dr. C.A. Antony	(Director, School of Management Studies, UC College, Aluva)	Economics
47	Dr. Sunil P. Ilayidam	(Professor, Sree Sankara University of Sanskrit, Kalady)	Economics
48	Dr. K.N. Raghavan IRS	(Customs Commissioner, Kochi)	Economics
49	Dr. P.S. Mohanakumar	(DC School of Management, Technopark)	Economics

50	Dr. P.A. Mathew	(Director, FISAT Business School, Kochi)	Economics
51	Dr. N.J. Kurien	(Professor, Centre for Social Development, New Delhi)	Economics
52	Dr. N. Ajithkumar	(Former HOD &Principal, Cochin College, Ernakulam)	Economics
53	Dr. K.P. Mani	(HOD, Department of Economics, University of Calicut)	Economics
54	Dr. K.Muraleedharan Dr. B. Dinesh	Kottakkal Arya vaidya sala	Bio Technology
55	Dr. Sarala Samuel,	Head,Research & Developement, Kerala Ayruvedic	Bio Technology
56	Dr. Sajan Joseph, Research	Director, Eli Lilly, USA	Bio Technology
57	Dr.Jayashree Acharaya	Head- Dept. of Sports Psychology, Lakshmibai National Institute of Physical Education ,Government of India	Physical Education
58	Dr.S.Sivasankaran	Professor,Sree Chitra Tirunal Institute Medical Sciences and Technology,Trivandrum	Physical Education
59	Dr.Shailaja Mohan Trivandrum	Head – Department of Sports Psychology,Lakshmibai National College of Physical Education	Physical Education
60	Dr.Binu Areeckal	Assistant Professor in Community Medicine,Medical College, Kottayam	Physical Education
61	Dr.K.ChandrasekaranChairperson School of Education Professor & Head	Department of Physical Education,Madurai Kamaraj University, Madhurai	Physical Education
62	Dr.JaideepMenon Consultant Cardiologist	Amritha Institute of Medical Sciences,Edappally&Sree Narayana Institute of Medical Sciences, Chalackal, Paravur	Physical Education
63	Mr.Brahma NayakamMahadevan	Special Educator, Motivational Speaker, Sahajeevan, Kaniyapuram, Trivandrum	Physical Education
64	Dr.George Mathews M.B.B.S,DPMR,Dip.N.B(PMR)	Assistant Professor L.N.C.P.E,Trivandrum	Physical Education

65	Dr.Arshad.A.A	Medicine Specialist Daisman Ayurkendra Kuruppath,Kondotty	Physical Education
66	Dr.Binu George Varghese,Assistant Director and Head	School of Physical Education and Sports,M.G.U - Kottayam	Physical Education
67	Dr. David Haines	Queens university of Belfast	English
68	Ms Mamta G Sagar	Centre for KIannada studies, Jana Bharati Campus Bangalore	English
69	Ms Priya A S	Malayalam Writer	English
70	Ms Summer Dunsmore	University of Berkeley, California	English
71	Dr Manju John	Johns Hopkins university	English
72	Swami Sachidananda Bharathy,	The founder of Acharya guru of national regeneration movement.	MCA
73	Dr. R V G Menon, retired Principal , Govt. Engineering College-Kannur	Director of ANERT and President of Kerala Sasthra Sahithya Parishad, the "Peoples' Science Movement	MCA
74	Sri. Prince Joseph,	Senior Scientist, NPOL	MCA
75	Mr. Sunil Balakrishnan,	Global Head for Center Operations and Center Head for Kochi Center, UST Global	MCA
76	Dr Sajan Joseph	Research and director,Eli Lilly, USA	Zoology
77	Dr. P V Joseph, Associate Professor	Dept. of Chemestry, Maharajas College Kochi	Zoology
78	Dr Thomas Philip	Former Principal, U C College Aluva.	Zoology
79	Prof. OOmmen Mathew	Regional Director, IMG Cochin	Zoology
80	Dr. Jacob Baby, Consultant Pulmonologist and Immunologist	Aster Medcity, Kochi –	Zoology
81	Prof S. Sitaraman, Former Head of Dept of Chemistry	Sree Sankara College kalady andConvenorofKerala, Nadeesamrakshana Samithi	Zoology

82	zabeth Janet Laury	Newyork	Psychology
83	Rev. Joseph Mitchell	Director,Passionist Earth spirit centre, Newyork	Psychology
84	Leorna Jarvis	Prof. & Head, Dept. of Psychology, HOPE collge, USA	Psychology
85	Dr. Thomas Mathew	Former psychologist to rehabilitation of delinquent, New Jersy, USA.	Psychology
86	Dr.S. Ananthanarayanan,	Former Director, Defense Research and Development Organization, India	Psychology
87	Hon.Justice Kemal Pasha	High court of Kerala.	Psychology
88	Dr. V.C. George, President	Indian Association of Clinical Psychologists	Psychology
89	Dr. Kiron Rao.	Former,Head,Clinical,Psychology, NIMHANS. Bangalore.	Psychology
90	Dr.GeorgeMathew,Former Head,Department of Psychology	UniversityCampus, Kariavattom	Psychology
91	Dr.S.Raju,Head, Department of Psychology,	UniversityCampus,Kariavattom, Thiruvananthapuram	Psychology
92	Dr.RazeenaPadmam, Former Director,	School of Behaviour Sciences. M. G. University, Kottayam.	Psychology
93	Dr. T. Thomas Philip. Former Principal and Head,	Department of Zoology, Union Christian College, Aluva.	Psychology
94	Dr. M. K. Mathew, Former Head,	Department of Psychology, K. E. College, Mannanam.	Psychology
95	Dr. Sani Varghese, Hospital, Kottayam	Clinical Psychologist, District	Psychology
96	Mr. Rajan Mathai. Clinical Psychologist,	Kusumagiri Mental Health Center. Ernakulam	Psychology
97	Dr. Wilson P.CFormer Head, Department of Psychology.	S. N. College Kollam	Psychology
98	Dr. Geethanjali Natarajan.	Clinical Psychologist, AIMS, Kochi	Psychology
99	Mr.AnoopK.V.Clinical Psychologist,	KozhikodeMental,Health Center.	Psychology

100	Mr. S. Sreejith IPS. (DIG of Police).	Chief Investigations officer (CIO) of the Kerala State Human Rights Commission	Psychology
101	Adv.Jayasankar,Senior Advocate,	High Court of Kerala and Popular Political Critic.	Psychology
102	Dr. Jeevan Job Thomas.	Writer and Researcher in Physics	Psychology
103	Ms. Reena Cherian,	Reader, Department of Social Work, Delhi University	Psychology
104	Mr. Manoj Menon, Associate Professor,	RajagiriSchool of Management, Ernakulam	Psychology
105	Ms. Ajitha.	Social activist and founder of 'Anweshi'	Psychology
106	Dr. Asha Rao.	Associate Professor of Social Work. Vimala College, Trissur.	Psychology
107	Dr. Prasad Sundhararajan,	Alumnus,UnionChristianCollege, Aluva.	Psychology
108	Ms. Glarmina P.,	Counsellor, Mukthi Sadan, De-addiction Center	Psychology
109	Dr C. Sudheesh,	Associate professor, IIST Trivandrum	Physics
110	Prof. Joaquim Puigdollers,	Micro and Nanotech-nologies Research Group, Department of Electronic Engineering, Universitat Politcnica de Catalunya	Physics
111	Prof. P.B Sunil Kumar,	Director, IIT palakkad	Physics
112	Prof. C.S Unnikrishnan,	TIFR Mumbai	Physics
113	Prof. M. K Jayaraj,	CUSAT, Cochin	Physics

3.7.5. How many of the linkages/ collaborations have actually resulted informal MoUs and agreements ? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/ or facilitated-

The institution has **07** MoUs and numerous agreements with industries/ other institutions.MOUs have been signed with 03 foreign Universities namely Hope College, Michigan, USA, Fu Jen Catholic University, Taiwan, International Christian University, Japan, for Student-Faculty exchange

programme and service learning programme. Apart from these, we have MOUs with Central Marine Fisheries Research Institute, Ernakulam, Medical Mission College, Kolencherry, Synthite Industies, Kolencherry, Start up Mission, Government of Kerala .

Curriculum development/ enrichment

- Faculties in charge of Add-on courses and Open courses have prepared study material as per the guidelines of M.GUniversity.
- Linkages with the industries/ Institutions facilitated in preparing the curriculum for Programme under certificate courses.

Internship/ On-the-jobtraining

- Many students of M.Sc Bio informatics, Bio technology have benefitted from the association of the College with other institutions where they are offered facilities to do their projects/OJTs.
- Internship training is given to M.Sc students for completion of researchprojects.
- As part of ASAP Summer Skill Skool Programme, students are offered internship in Public Sector Undertakings, Local Bodies and Small Medium Scale Enterprises.

Faculty exchange and professionaldevelopment

- Faculties from different institutions with which we have collaborative understanding visitour campus and interact with our students. Our faculty members are invited to these institutions for seminar presentations and invitedtalks.
- The institution encourages all faculty members to participate in Orientation/Refresher courses as well as to present research papers in National/International Seminars/Conferences and to get it published in peer reviewed National/International Refereed Journals as part of their professionaldevelopment.
- A few faculty members are Resources persons in the UGC Academic Staff Colleges as well in National seminars/workshopsetc

Research

- The New Initiatives of Higher Education, Government of Kerala, has launched a Programme named FLAIR (Fostering Linkages in Academic Innovation and Research). **Two** of our faculty members successfully completed national and internationalinternships.

Consultancy

- The College provides consultancy services in vermin composting, water testing, rain water harvesting, waste management etc. The College generates limited revenue from its consultancy services

Extension

- The College encourages extension activities initiated by both the students and the faculty incharge.
- The NSS, NCC,SCF and other social clubs have conducted various socially useful extension activities like blood donation, Cancer and AIDS detection Camps, distribution of tree saplings, environment protection programmes, Human rights campaigns,etc.

Publication

The collaboration with other institutions has resulted in 15 national/international publications

StudentPlacement

The Career Guidance Cell in the College plays an active role in promoting career advancement of the students. Many banks and companies have come forward to recruit students from the campus.The students who successfully complete the ASAP training Programme are given placements

3.7.6. Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations.

- Teachers are permitted to attend various programmes arranged by other institutions.
- Teachers guide PG projects and M.Phil/PhD thesis of otheruniversities
- Teachers participate in various extension activities such as invited talks, paper presentations, community and socialservices.
- Many of the faculty is members of Board of Studies of variousuniversities and autonomous Colleges.
- Faculty participates in various extension activities initiated by theKerala Government like election duties and censusduties.
- The College utilizes the connection with its alumni and former faculty members working in other universities and institutions in India and abroad as a means of establishing linkages andcollaborations.

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

1. Physical Facilities

4.1.1. What is the policy of the institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

The infrastructural development plan of the College is participativeand largely transparent in nature. The Departments, officers-in-charge of various facilities, and individual faculty members are encouraged to submit their proposals for infrastructure development, upgradation &maintenance of existing infrastructure etc. every year. The members of Staff Council make necessary suggestions in this regard. The staff Council constitutes committees to prepare proposals to be submitted to funding agencies such as UGC, DST, UBCHEA, etc. These committees consider the requests received from stakeholders and prepare proposals.

Besides, the College has a Works Committee - consisting of Principal, Manager, and three selected teachers - to plan and supervise the civil works of the College. This Committee meets periodically to plan the infrastructure developments and maintenance, and submit its report/ recommendations to the Governing Board (GB) of the College, for approval.The works committee implements the work based on approval by the GB once. In case where funds are not currently budgeted, the GB proposes the estimate for next Annual budget of the College. Major civil works such as construction of new buildings, are supervised by committees constituted by the GB.

4.1.2. Detail the facilities available for

a) Curricular and co-curricular activities:

The College has an extensive campus with lush green lawns, shadowy trees and fragrant flowers adding to its exotic locale spreading over an area of 42.4 acres. There are thirty three buildings (513354.6 sq. ft.) that house the College with following facilities:

- 67 classrooms with proper ventilation and power supply with a built-up area of about 1,21,761.8 sq.feet (approx.)
- There are 20Department staff rooms and a common staff room
- Apart from the central library of the College, there are 18Department libraries and 02 libraries under projects of Centre for the Study of Religion and Society (CSRS) and Ford Pathways Cell)
- 07 smart classrooms are equipped with interactive boards. (MCA, MBA, Psychology, Economics, Commerce, Botany & Mathematics)
- The College has adequate audio-visual facilities. There are 05 LCD and 20 DLP projectors, fifteen Over Head Projectors. Three Departments have

television sets and the Dept. of English uses LD players for regular teaching.

- The archeology museum developed and maintained by the Dept. of History supports the educational purposes of Archeology students and History students. The museum is open (with permission) for outsiders as well.
- 09Departments are approved research centres ofMahatma Gandhi University, and have separate rooms for researchers.
- 08 fully furnished seminar/conference halls provide space for academic andnon-academic discourses. (T.B Ninan Hall, Mitrapuram hall, MCA New seminar hall, MCA Hall, Prof. T.R Anatharaman Memorial hall, Mathematics, Physics, English)
- There are 28 laboratories (to serve postgraduate and undergraduate courses), 11 computer laboratories and a language laboratory.
- There are 02 botanical gardens with about eighty rare and endangered plant species and an Arboretum (O.M. Mathen Memorial Arboretum). The College also maintains a Poly house, Green house and a pond.
- The Departments of Chemistry and Botany have instrumentation rooms.
- The College has a maintenance centre for computers with the service of a full-time system administrator.
- The College facilitates the examination valuation camps of Mahatma Gandhi University, and provides 03 rooms for this purpose
- There are 02**auditoriums** with seating capacity of 2000 and 450 each
- The College has 02**open stages**
- The College has
    - 03**major playgrounds**, each exclusively for cricket, hockey and football,
    - 01 outdoor **stadium for Basketball and Tennis**,
    - 01 indoor stadium, and
    - 01**Volleyball**court (renovated during 2015-16 with an outlay of Rs. 50,000)
- Well equipped **Gymnasium and Health club** are functioning in the campus with 12 stations.

- A **yoga centre** also functions in the campus for teachers and students, supervised by trained instructor (under the Physical Education Department)
- The College has tie up with the **Rural Medical Mission Hospital** for medical assistance. The hospital is a sister concern of the College
- **Rest rooms** with adequate number of toilets for gents and ladies are available in the campus.
- A **counseling centre** (BLISS) is functioning in the College under the supervision of the Psychology Department with weekly consultation by eminent clinical psychologists
- The College has 02**NCC offices** and stock rooms along with **firing range** and obstacle course
- The College also has an **office for National Service Scheme (NSS)**
- An office room available for the **College Union**of students.
- The College has set up a**public address system** in all class rooms
- Fully furnished **Development office**

b) Support facilities

- Broadband -10mbps internet connection(NME/ICT of MHRD)
- Network (fibre optic backbone) connectivity to all teaching depts., library, administrative office, and placement cell
- Wi- Fi connectivity inside the campus
- Co-operative store to sell stationery items
- A Co-operative Credit Society for permanent staff members
- Hostels – 02 for men and 05 for ladies
- Staff quarters(07 independent quarters, eight apartments, and one quarter for non-teaching staff) and Principal's quarters
- Guest house
- Day careCentre (16 kids)
- Three Generators(15KV,30 KV,63KV)and one incinerator

4.1.3. How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the

last four years (enclose the master plan of the institution/ campus and indicate the existing physical infrastructure and the future planned expansions if any)

The College follows a plan document - Vision 2020 - to ensure that the College grows in line with a prescribed plan. During the last five years the College has strived to enhance the infrastructure facilities. Following are the specified projects undertaken during the last five years:

- The second phase of MCA/MBA block is already completed, which has08class roomand third phase is progressing with the completion of 08 class roomsfor a cost of Rs.1.2 Crores.
- Sports:Developeda volleyball court.
- Renovation: administrative block, canteen, staff quarters, ladies waiting room, Principal's office and T.B Ninan hall
- An academic block (MB block) completed utilizing teacher's contribution
- Teachers' recreation room
- Hostel
- Office automation

4.1.1 **How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?**

The policy of the College is to integrate the differently abled ones right into the general campus population

- Ramps facility is available for the physically challenged students at different elevated regions
- Laptop enabled with Braille software provided in the library to Blind students on a merit cum need basis (Ms Keerthy Babu, P.G Economics student)
- A pool of scribes has been prepared and appropriate seating arrangements made for blind students during examinations
- Audio records in the form of study materials as learning support is prepared and made available by the Departments of English and Malayalam.
- Preferential allotment of Hostel facility for visually challenged students.

4.1.4. Give details on the residential facility and various provisions available within them

a) **Student Hostels**

- Accommodation:
    - The College has two hostels for boys – Chacko hostel and a Sports hostel. The Chacko hostel accommodates 40 students, and sports hostel accommodates 18 students
    - Five ladies hostels including a sports hostel together accommodate 323 students.
- Recreational facilities: All hostels have recreational facilities such as common room with audio-visual equipments. Extracurricular activities are promoted by providing facilities for indoor games (chess, table tennis, carom board etc) and badminton, and open stages for cultural activities. The hostels also have ecumenical prayer halls, yoga centre and sick rooms with first aid facilities.
- Hostellers are permitted to use personal laptops and are given locker facility for safe custody.
- Library: Inmates manage library within the hostel (approximately 285 books), journals and newspapers (two vernacular dailies and one national daily)
- Security: All the hostels have walled compound, security room and watchmen
- Protected well water with filter system is provided for ensuring constant supply of safe drinking water
- Two of the hostels have mini provision stores.

b) **Staff quarters**

- There are 17 staff quarters for staff of the College, including Principal's quarters. This includes09independent houses and eight apartments. As a policy of the College, the Principal reside inside the College campus.
- Additional accommodation facility availablein the hostels for teachers.

c) Guest house

- The College has two Guest houses with a total of six rooms

d) Day care

- A day care centre and a crèche also functions in the College

4.1.5. What are the provisions made available to students and staff in terms of health care on the campus and off the campus

- The Rural Medical Mission hospital is a sister concern of the College and is located adjacent to the College.
- A Counseling centre (BLISS) also functions in the College with weekly 3 hour session by clinical psychologist and full-time assistance from the Department of psychology.
- Rest rooms are provided for students and teachers and a vending machine for sanitary napkins as well as an incinerator has also been installed for hygienic disposal
- Purified drinking water facility is provided in each block, in the canteen, and in the library
- Physical fitness campsareconducted by the Dept. of Physical Education

4.1.6. Give details of the common facilities available on the campus

- The **canteen** of the College is located in the non-resident students' centre. It has a separate room for women, partitioned space for faculty and office staff. It is well furnished and has adequate facilities for ensuring food safety, including renovated kitchen, refrigerator, freezer, regular supply of filtered drinking water and electric power.The canteen facilitates dining cum get-togethers on special occasions for students, teachers and staff.
- Waste management is appropriately done using biogas plant and incinerator
- Separate space has been provided for IQAC office, Website committee, Development office, etc. An exclusive space is allotted for Server maintenance.
- The College has a well functioning Placement cell and Guidance bureau, and it provides reference facilities to the students providing periodicals with career information and computers with internet access
- A furnished recreational room is available for the teachers, and a ladies waiting room is available for the female students

- The College has set up incinerators in ladies waiting room and auditorium, a vermi-composit unit and biogas plant for waste management
- The College also has a fully furnished Development office
- The College has a rain water harvesting unit with a capacity of one lakh litres
- The College has a College Co-operative store to sell stationery items, and an Employee's Co-operative Credit society to address the financial need of the employees.
- 08units of CCTV cameras are installed in the campus, and 04 units in library as per the regulations of the university and UGC for monitoring examinations and security purpose. The College has installed 03 electric generators (108 KV) to ensure uninterrupted supply of electricity. A transformer (325 KV) has been allotted separately for the College by theKerala State Electricity board
- The College has a **workshop** (carpentry and welding) under the supervision of Works Committee for the maintenance and upkeep of class room and other facilities

4.2. Library as a learning resource

4.2.1. Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

The library committee comprises of07 members including Principal as the Chairman, Librarian as the Secretary, and 05 heads of Departments as members. The committee meets to discuss and decide on policy matters, service initiatives etc. It also acts as a liaison between faculty, administrators and library.

Thecommittee met in 2013 December, made a major policy change to proved complete Open Access to all students from 2014 January (Until 2013, the whole collection was open to Postgraduate students and final year undergraduate students only). It was also decided to increase the number of fiction books to meet the users' neds and thereby increase the library usage. The Committee met on June 2015 advised to install an automated mechanism to ascertain the number of walk-ins to the library.

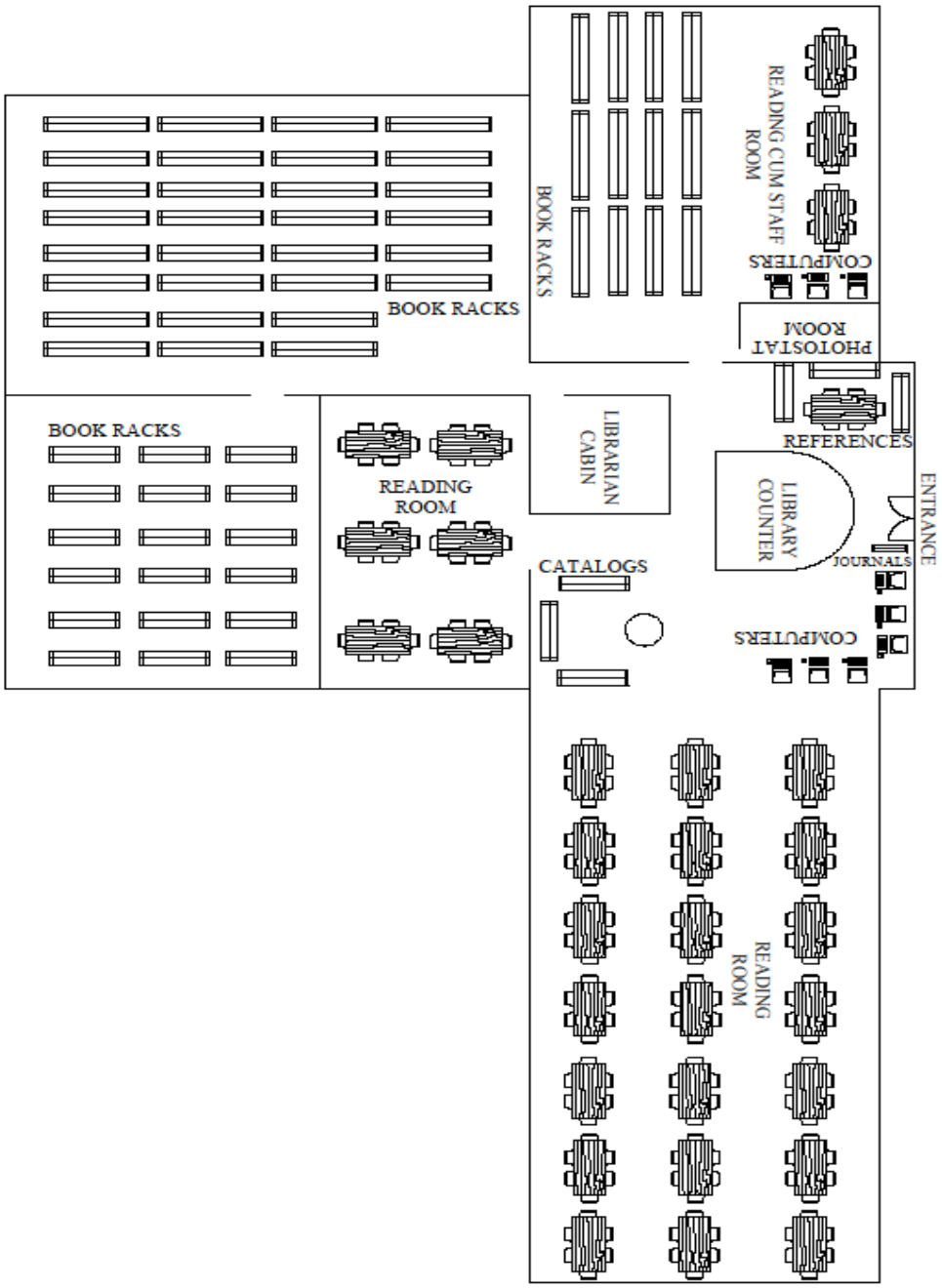
4.2.3. Provide details of the following:

- Total area of the library (in Sq. Mts.) : 9300 sq. ft.
- Total seating capacity : 222

Working Hours	
On working days	9.00 a.m. to 4.30 p.m.
Saturdays	9.00 a.m. to 4.30 p.m.

Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources):

- Entrance Hall: Circulation Section with a counter, New Arrivals Display Area, OPAC (6 desktops), Print Journals Section, Closed Reference Books Section, Teachers' newspaper reading area, Reading room for Girls, Card Catalogue, and Librarian's Cabin (3800 sq. ft.)
- Hall no. 2: Boys Reading room, and StackRoom for a few subjects (1700 sq. ft)
- Hall No. 3: Separate collection of less-used books, Reprographic facility, Bound vols., reading room for teachers and research scholars. (2000 sq. ft)
- Hall no. 4: Stack room (1800)



4.2.3. How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

At the beginning of every academic year, the library request proposals/ wish lists from teaching Departments for resources to be purchased for the library. The Departments usually suggest syllabus oriented titles. The library procures these resources from vendors and makes them available for use at the earliest. Purchases are made from book exhibitions also.

Table 4.1. Details of current titles, print and e-journals and other reading materials and the amount spent on procuring during the last four years

Library Holdings	Year (12-13)		Year (13-14)		Year (14-15)		Year (15-16)	
	Number	Total cost	Number	Total cost	Number	Total cost	Number	Total cost
Text books/ Reference Books	117	116060	669	310376	1818	674361	456	152124
Journals/ Periodicals	28	29,400	25	31,000	30	32,800	36	74,980
e-resources	5500 Jnls + 97000 e-books	5000	5500 Jnls + 97000 e-books	5000	5500 Jnls + 125000 e-books	5000	6000 Jnls + 135000 e-books	5750
Any other	Institutional Membership	3000	Nil	-	Nil	-	Institutional Membership	3000

4.2.4. Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

- **OPAC** : The Online public access catalogue is accessible from 8 machines available in the library and from all the machines available in the Departments.
- **Electronic Resource Management package for e-journals**

The library subscribes to the N-LIST programme of the INFLIBNET, through which more than 6000 e-journals,and more than 30 million e-books are accessible. Students are free to access all these resources from the library, Departments, placement cell, labs, and from their homes. The College also subscribes to IEEE database.

- **Federated searching tools to search articles in multiple databases**:

: Not available

- **Library Website**: http://library.uccollege.edu.in/
- **In-house/remote access to e-publications**: Accessible with login details
- **Library automation** : The library is automated with – *Alice for Windows* - an international software package. The online public access catalogue is

accessible in all the machines inside the library and computers at various locations connected through the LAN.

- **Total number of computers for public access** **:** Eight desktops inside the library, and all the machines available at the staff rooms.
- **Total numbers of printers for public access** **:** One
- **Internet bandwidth/ speed** : 10 mbps
- **Institutional Repository** : An institutional repository that archives all the publications of our faculty is under development with open-source software *DSpace.*
- **Content management system for e-learning** : Nil
- **Participation in Resource sharing networks/consortia (like INFLIBNET)**: : INFLIBNET; American Library, Chennai

4.2.5.Provide details on the following items:

- **Average number of walk-ins** : 280
- **Average number of books issued/returned** : 278
- **Ratio of library books to students enrolled** : 36:01
- **Average number of books added during last three years**: 382
- **Average number of login to opac (OPAC)** : No data
- **Average number of login to e-resources** : 10,171 (in 2015); and 27,723 (in 2016). The College was one among the top 10 users of NLIST during January - March, 2016
- **Average number of e-resources downloaded/printed**: Accurate data not available
- **Number of information literacy trainings organized** : 11/ year
- **Details of "weeding out" of books and other materials**: We have been keeping the less used and inactive documents in a separate collection. Approximately 30,000 books are in this section.

4.2.6. Give details of the specialized services provided by the library

- **Manuscripts** : No resources available
- **Reference**: A separate collection of closed-reference documents such as encyclopedias, dictionaries etc. is kept for in-house reference. Besides, there is a collection of books for those preparing for competitive examinations, NET/ JRF etc. which students can borrow for short durations.
- **ILL (Inter Library Loan Service)**: The College has institutional membership in American Library, Chennai. The resources of this library are available on loan for a period of one month.
- **Information deployment and notification (Information Deployment and Notification):** Through library website, and notice board inside the library. Newly arrived books are displayed near the entrance of the library for getting users' attraction.
- **Download**: All the machines kept inside the library are used by students to download online resources.
- **Printing**: Students and faculty can make use of the printer available in the library.
- **Reading list/ Bibliography compilation**: Bibliographies and citation details of online resources are provided to postgraduate students and research scholars at the time of their dissertation preparation.
- **In-house/remote access to e-resources**: All the resources under the NLIST programme could be accessed from both the campus and users' home. The login details are provided to postgraduate students and faculty.
- **User Orientation and awareness**: Information literacy sessions are conducted at the beginning of the academic year to all the freshmen. This session of 60 - 90 minutes each includes in-class lecture on information use, their evaluation, plagiarism, scholarly literature and ethical usage etc, along with a library visit
- **Assistance in searching Databases** : Professional assistance is provided to access both NLIST resources and Open Access Journals.
- **INFLIBNET/ IUC facilities** : The library has been using the services of INFLIBNET since 2011. Besides the NLIST e-resources, we encourage our

students to use Shodhganga (Repository of Theses, UGC) as well at the time of their project preparation.

4.2.7. Enumerate on the support provided by the Library staff to the students and teachers of the College.

The library staff proactively support our user community to satisfy their academic needs, such as: help to search catalogue, locate information from both printed and online resources; prepare bibliography of appropriate resources using NLIST; announce conferences/ seminars/ academic programmes, etc. collected from newspapers and journals, and jobs through the library notice board; documentation of College activities; and provide referral guidance to other libraries, institutions and resources external to the College for collecting information.

4.2.8. What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

We have been developing the following

- A collection of audio records of textbooks and lecture notes with the help of volunteers. 9 volunteers are participating in recording of these resources.
- The collection of already recorded materials are made available for visually challenged students in a separate section.
- For physically challenged students, personalized services are provided to locate and collect relevant resources.

4.2.9.Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analyzed and used for further improvement of the library services?)

- Orientation sessions conducted by the library
- Faculty members collect views of the students during the tutorial meetings.
- We also note the comments/ views reported at the time of annual sent-off meetings (every year the College organizes send-off meetings to both UG and PG students).
- The major issues related to policies are discussed in Library Committee to make appropriate changes; other issues are solved or rectified by the librarian in consultation with the Principal.

4.3. IT infrastructure

4.3.1Give details on the computing facility available (hardware and software) at the institution

Table 4.2: Details on the computing facility available in the College

Laptops	40
Desktops	304
Licensed software CDs	293
Open source software	• Linux(Ubuntu) ,KOHA, Qtcreator,django,MySQL,Programming languages-C,C++,Java,Python(MCA)department, • Genopluster for Gene identification,Lead-IT Flex-x-Software for drug designing(BioInformatics) • Linux(Ubuntu)ComputerScience
Internet connectivity	10 Mbps in main campus and 14 Mbps in MCA campus.In main campus, library, administrative block, placement cell, and all teaching Departments are connected through a LAN and Wi Fi
Wi-Fi facility	Open for faculty with login requirements.The facility will be made available to the students after 2017.
Printers	62
Scanners	19
Photocopiers	9
UPS	56 (5 KVA-12, 3 KVA-8, 1 KVA/ 600 VA-36)
Smart boards	7
Video/still camera	7
Projectors	LCD-5,DLP-20,OHP-15
Public Address System	72 speakers

Audio system	7
Voice recorder	2

- Computer-student ratio: 1:5

4.3.2.Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus

- Every Department staff room is equipped with a minimum of 02 desktops (one exclusively used by students) with internet (Wi-Fi) facility and printers. The faculty also uses personal laptops and those procured under UGC minor/major projects
- The students have access to desktops in the library and Placement cell with internet facility. One desktop each with internet facility is made available to students in Department common room. Besides, theDepartments of Computer Science, Commerce, Physics, Mathematics and MCA have well equipped computer laboratories.

4.3.3. What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associate facilities?

- A major share of the expensestowards developing, upgrading, and maintaining of LAN and IT infrastructure is met by the Collegemanagement (Installation of Local Area Network with an Optical Fiber Cabling– Rs. 2 lakhs, Wi-Fi – 4 lakhs, fully equipped MCA lab).
- Additional funds are sourcedfrom agencies such as UGC, UBCHEA, Union Christian College Association of North America, DST etc. whenever there are provisions. As mentioned in 4.1.1, the proposals are usually discussed in the staff council.

4.3.4 Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution (year wise for last four years)

- The College has set up a Maintenance room and appointed a technician.

4.3.5. How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/learning materials by its staff and students?

- Teaching/learning using smart classrooms
- Tutorial sessions are utilized to motivate and assist students to prepare computer-aided seminar presentations
- Familiarization of students with ICT resources through showing presentations by eminent faculties of international universities, screening documentaries etc.
- Internal assessment of seminars using multimedia presentations and students are provided with requisite equipments
- Faculty encouraged to prepare and upload learning material including lecture notes, in the College website

- **4.3.6.Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching-learning resources, independent learning, ICT enabled classrooms/learning spaces etc) by the institution place the student at the centre of teaching/learning process and render the role of a facilitator for the teacher**

  - Language laboratory
  - Interactive boards
  - Smart class
  - PPTs for teaching and learning

4.3.7 . Does the institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

- INFLIBNET availability
- NME ICT broadband connection of 10mbps supported by NPE ICT

4.4. Maintenance of Campus Facilities

4.4.1. How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following

facilities (substantiate your statements by providing details of budget allocated during last four years)?

Table 4.3: Details of budget allocated for maintenance and upkeep for facilities in the College.

Utilisation	2012-13	2013-14	2014-15	2015-16
Building	1382997	6906521	8520044	18794163
Furniture	258308	170576	755353	887515
Equipment	2238500	63702	634678	368019
Computers	1825949	386762	1623307	1818868
Any other	601497	308557	1613000	1397215

4.4.2.What are the institutional mechanisms for maintenance and upkeep of the infrastructure facilities and equipment of the College?

- The College has a Works Departmentunder the supervision of works superintendent and a faculty as in-charge
- The Works committee studies the proposals submitted by the Departments and initiates action
- Every construction project undertaken by the College is under the supervision of a faculty
- There are separate committees to undertake UGC fund related purchases and other purchases. Purchases, stocks and other such transactions are done only by inviting quotations/tenders; accounts audited by approved chartered accountants
- System administrator for service and maintenance of computers
- Expert committee for maintaining and updating College website
- Heads of the Department maintains a stock register
- Librarian is assisted by the Library committee
- Campus Beautification committee

4.4.3. How and with what frequency does the institute take up calibration and other precision measures for the equipment/instruments?

Periodic calibration and maintenance done by the faculty and servicing done by professionals

4.4.4. What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc)?

- Constant supply of power ensured through UPS and generators
- Constant supply of water ensured through direct supply from protected well and rain water harvesting tank

4.4.5.Any other relevant information regarding infrastructure and learning resources which the College would like to include

Nil

CRITERIONV: STUDENT SUPPORT ANDPROGRESSION

5.1. StudentMentoringandSupport

5.1.1. Does the institution publish its updated prospectus handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

Yes

1. Separate, updated prospectus for aided and un-aided UG and PG programmes are published every year. They contain necessary information that students may like to know about the College in general, the course details, fees structure and eligibility criterion for admission to each of them.

2. The annually updated College handbook/calendar,contains:

- A brief history of the College together with its motto, goals and objectives.
- Brief biographical sketch of the founding fathers.
- The succession list of Managers, Principals, Standing Council, Governing body, Executive Committee, Board of Directors and the College fellowship.
- List of members in charge of administrative units.
- List of teaching staff and non teaching staff along with contact details.
- Courses offered, fee structure, fee payment dates etc.
- Details of scholarships and fee concessions provided by College, government and university.
- College rules and library rules.
- A College almanac, telephone numbers of teaching, non teaching, retired staff and friends of the College.
- Academic calendar issued by the affiliating university is published in the College calendar.
- A committee for the creation of the academic calendar

5.1.2. Specify the type, number and amount of institutional scholarships/ freeships given to the students during the last four years and whether the financial aid was available and disbursed on time?

Scholarships derived from endowments instituted by Alumini of USA (UCCAANA), Kuwait Alumni, Abraham C Kulangar, Trinity Scholarship etc are disbursed annually and the amount is distributed among students. Some other endowmentsare made as fixed deposits and scholarships are disbursed from the interest received from the deposits. So these scholarships are distributed every year.

- Free noon meal is provided to a group of needy students with the help of a few philanthropic teachers.
- Teachers give financial support to students and a few students are sponsored by alumni also.

- Text books and notebooks are supplied free of cost to needy students identified by respective teachers

- All the scholarships and freeships are made available and distributed on time.
- Some scholarships are Department specific and some others are general and the provider has the freedom to suggest the procedure for selection of students.
- A selected senior teacher is accountable for finding out the needy and meritorious. All the Departments submit proposals to the teacher and list is created by considering the factors as directed in each scholarship.

Table 5.1: Details of students'Scholarships in the College

Year	Scholarship Name	Amount allotted in the year	Number of students benefited
2011-2012	Scranton Scholarship	57830	5
	Kano Yama motto	83283	25
	Abraham.C kulangara	524000	60
	Trinity scholarship	35000	30
	Sosamma Philip Endowment	100000	45
	K K Leelamma endowement	10000	2
2012-2013	Scranton Scholarship	57830	5
	Kano Yamamotto	22000	11
	Abraham.C kulangara	524000	14
	Trinity scholarship	35000	15
2013-2014	Scranton Scholarship	123730	15
	UCCAANA	54174	28
	Kano Yamamotto	22000	22
	Trinity	35000	19
	Abraham C Kulangara	300000	55
	K N Dabu	40000	5

Year	Scholarship Name	Amount allotted in the year	Number of students benefited
2014-2015	Scranton	195100	60
	Kano Yamamotto	152769	40
	Trinity	35000	32
	Sheelakumari issac endowment	30000	2
	Raju K John	100000	5
	Physics batch 83	30000	2
	L Sushama	50000	2
	P G Nair endowment	14 lakhs	15
	UCCAANA	215255	30
	Kuwait Alumni	88000	28
2015-2016	UCCAANA	198300	34
	Kano Yamamotto	173656	15
	Anantharaman memorial	5 lakhs	40
	Abdulla memorial	330500	15
	K C Chacko endowment	361076	15
Total		5883503	691

5.1.3. What percentage of students receives financial assistance from state government, central government and other national agencies?

Table 5.2: No. of students receives financial assistance from state government, central government and other national agencies?

Scholarship Name	2011	2012	2013	2014	2015
Post metric	40	44	50	52	55
Centre Sector	50	70	80	80	80
Suvarna Jubilee	12	18	18	20	22
C H Muhammed Koya	18	20	26	26	27
Hindi	6	8	8	8	8
KSHEC	8	9	12	10	11

Scholarship Name	2011	2012	2013	2014	2015
Post metric	40	44	50	52	55
Centre Sector	50	70	80	80	80
Suvarna Jubilee	12	18	18	20	22
C H Muhammed Koya	18	20	26	26	27
Hindi	6	8	8	8	8
KSHEC	8	9	12	10	11
Prathibha	3	3	4	3	5
Inspire	3	4	3	5	6
District Merit	12	12	15	17	17
Student aid fund	45	45	45	45	45
Total	197	233	261	266	276
Total strength	1895	1890	1955	1990	2250
Percentage	10.3	12.3	13.3	13.3	12.2

5.14. What are the specific support services/facilities available for students from SC/ST, OBC and economically weaker sections?

The socially and economically backward sections are integrated into the College community and their education is rendered hassle-free through various promotional measures at the governmental and at the institutional level.

Admission: The College ensures that 20% of seats are reserved for SC/ST in each UG & PG Programme as per the Government and Universityrules. They are exempted from paying tuition fee, exam fee and special fee and avail stipend, conveyance allowances and study tour allowance. Economically weaker sections avail themselves of the KPCR fee concession, conveyance allowance and specialallowance.

A Student Aid Fund is made available to SC/STstudents.

- Financial assistance is provided to economically weak students who commute longdistances

- Students are encouraged to help out each other financially, emotionally and academically, besides Department- wise supportiveinterventions.

- Remedial Coaching, NET Coaching, coaching for Bank test, Civil Service Coaching are conducted to motivate, assist and equip all students for lifecareers.
- Counseling services, Orientation Programme and the activities of all the Departments and clubs are meant to encourage and empower the students.
- The institution arranges special classes for the SC/STstudents.

Overseas students

*LDST scholarship and fee concessions are meant for overseas students.

Students to participate in various competitions/ National and International

- Parents Teacher Association is supporting students financially for extra coaching other than the normal physical education Department training. The staff association discusses about the participating events and allocates financial assistance to the students.
- The Management and staff of the College take keen interest in encouraging student participation in various competitions. Various committees and clubs are organized to identify, nurture and expose the talents of the students.
- Department Associations, Inter-Departmental Cultural and Sports Competitions, Annual Sports and Arts Festival promote studentparticipation.
- Quiz Competitions, Talent Search, Literary Fest, Speech and Debates on contemporary issues, Power-point Presentation Competition, Campus Photography Competition, Short Film competition etc are conducted almost every year under the aegis of various Departments andclubs.
- Details of competitions in the College and in other institutions are announced as well as displayed on the noticeboard.
- Teachers in charge of various committees and class teachers take initiative in grooming and sending the talented students to variouscompetitions.
- For competitions outside the College, teachers accompany theparticipants.
- Financial assistance and attendance are provided to suchstudents.
- Names of winners are announced and displayed on notice boards so as to motivate, encourage and inspire thestudents.

Medical assistance to students: health centre, health insurance etc.

- First aid Kit of essential medicines, ointments, balm, bandage, cotton, hot water bag etc are available in 3 centres to provide immediateaid
- The benefits of Health Insurance from LIC are also extended to students at a premium of Rs. 10 peryear through Mahatma Gandhi University

- Financial support is provided by respective Departments. Staff association and the Management for the treatment of sickstudents.
- Awareness classes are organized to sensitize the students about Life Style Diseases, HIV/AIDS, Chicken Guinea, Cancer, Drug and AlcoholAddiction.
- Blood Group detection and Blood donation camps are organized for the students and staff of the Collegeunder the initiative of the NSS and NCC Unit.

- Rural Medical Mission Hospital near to the College is our sister concern and it provides Health services to students. All the students are insured by the university by an annual payment of Rs 5 from the fees. Apart from that PTA is providing insurance to students.

Organizing coaching classes for competitive exams

Under the Department of Computer Science, we are organizing civil service coaching as well as coaching for entry into services by utilizing UGC grants.UGC has provided us with a fund for conducting NET coaching and this fund was fully utilized by sharing the fund among Departments which have PG courses.

Skill development (spoken English, computer literacy, etc.,)

Additional Skill development Programme (ASAP) is a government initiative to equip students with IT skills and language skills. We are a training partner institution to the Government. We train the trainers selected from our College and those students get placed as trainers in different Higher Secondary Schools. The Government have rated the ASAP courses conducted in U C College with FIVE Stars (highest level) . Every year we train two batches of ASAP students and the selection of these students are done by the Government of Kerala in an all Kerala basis.

Support for "slow learners"

The remedial coaching for slow learners is neatly organized in the College. The class teacher identifies the slow learners and they are recommended towards the corresponding subject teacher. We had received UGC fund of Rs. for remedial coaching classes and the fund was shared between Departments based on proposals received from Department. The slow learners are identified through tutorial sessions and the extra time, care and coaching given to the students have helped us to create higher outputs.

Exposures of students to other institution of higher learning/ corporate/ business house etc.

An entrepreneurship club is functioning in the College and these clubs arrange programmes to equip students for this. Seminars frequently organised by the placement cell is of great help to students. Some courses such as B.Sc BT &SP ,M.sc Bio Informatics have industry linkages and these students are strictly involved in industry visits and application projects.. The Psychology Department provides help to

society by conducting free counseling, relief counseling during the occurrence of natural disasters and accidental disasters. We have collaboration with universities in Japan and Korea and every year we have Youth Exchange Programme. As a part of this Programme 3 students from Japan visited and participated in different classes of U C College for 3 months. 3 studentswere selected to visit Japan and had spent 4 months in a university in Japan. Apart from this, the College extends the hands of friendship to Korea through youth Exchange Programme.

Publication of student magazines

Every year the College releases a student magazine in the printed form.DifferentDepartments separately publish manuscript magazine every year and there are magazine competitions that exists between Departments. The DepartmentsHindi and Malayalam have periodicals.

Table 5.3: Details of Publication of Departments

Departments	Year and name of publication			
	2012-13	2013-14	2014-15	2015-16
Malayalam	Darpanam	Darpanam	Darpanam	Darpanam
Hindi			Dastak	Dastak

5.1.5. Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

An entrepreneurship club is functioning in the College and these clubs arrange programmes to equip students for this. The club is guided by Mathematics Department.

5.1.6. Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co- curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.

- Due consideration is given to students who excel in extracurricular and co- curricular activities at the time ofadmission.
- NCC and NSS play a vital role in the overall development of students to groom them to be socially committed with discipline. Activities of the College Union, Arts Fest, Departmental Associations and various clubs like Quiz club, Debate club, Drama club, , Writer's Forum, Science Club, Music club, Film club etc help to expose and develop the talents of students. Information regarding competitions is communicated to the students and those who wish to participate in inter- collegiate or inter-Departmental competitions are groomed to excellence. Names of winners are announced and displayed on the noticeboard. Financial assistance is provided to meet the expenses of the students participating in thecompetitions.
- Two inter collegiate tournaments are organized by the College every year.

- The Annual Sports Day,
- Inter-College and Inter-Department sports competitions offer excellent exposure for those interested in sports andgames.
- The health club and Gymnasium help to maintainfitness.
- Balanced diet is provided regularly to sportsstudents.
- Item-wise uniforms and sports equipment are provided to thestudents.
- Accommodation is made available for the elite sportsstudents.

Additional academicsupport

- Attendance condonation is granted for students who have missed classes for practice and participation incompetitions.
- Extra help is provided by teachers by explaining portions, arranging labsetc.

5.1.7. Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC- CSIR- NET, UGC-NET, SLET, GATE/ CAT/ GRE/ TOFEL/ GMAT/ Central/ State services, Defense, Civil Services, etc.

- The College has a career and Placement Cell with a full time placement officer. The Guidance Bureau notifies information of courses and careers. The announcement posters of admission tests in various National level institutions like IIT, IISC are displayed by the Bureau. The Bureau prepares the students for competitive examinations and organises Leadership Training sessions.
- The general Library has a separate collection of materials for Civil Service aspirants. Many Department libraries provide study materials for various tests like NET, JRF etc. The Malayalam Department organizes formal programme for PG students after the normal class hours. The College is conducting coaching classes for NET using the UGC grant sanctioned for the same from the academic tear 2010-11.
- During the reporting period following number of students qualified in various competitive examinations:

JRF	NET	GATE	ICMR
7	45	8	2

- The Quiz and Debate Clubs functioning in the College organize programmes to promote competitive skills.
- Personality Development Programme are also taken up various Departments with the help of guest faculty.
- Department-wise Associations meet regularly and equip the students with the skills, techniques and confidence to act as torch-bearers of society for the new generation.

5.1.8. What type of counseling services are made available to the students (academic, personal, career, psycho-socialetc.)

- The College takes special care in the spiritual enlightenment of students and had a full time chaplain (till March 2016) with rich experience in student counselling. The chaplain was available in the forenoon of specific working days and students having problems which cannot be handled at the teacher level are directed to the chaplain. Many students have benefited out of this.

- **BLISS**

The Psychology Department has a counselling centre which is open to all students of the College. Teachers as well as non-teaching staff can refer students to this centre. The retired Head of the Department Dr K E Leelamma serves as the visiting counselor and all the Psychology teachers serve as counsellors. Service is provided to those students who require support and assurance in relation to academic and emotional aspects.

- **Value education classes**

The College has a well structured value education system. A senior faculty member will be in charge of the value education classes every year. The first hour of day 5 is allotted as value education hour in all Departments in even semesters.Training classes of 10 hours duration is given to all faculty members. The faculty members who are eager in handling classes are selected and allotted to classes other than home Department. This provides exposure to both faculty members and students to understand the potentials of both. Attendance is also maintained for these sessions as a measure of interest of students in this.

Value education classes serve a lot to develop a positive attitude in students. Teachers engage value education classes and conduct tutorial group meetings.

- Teachers give academic counselling to the students which help them to choose proper disciplines for PG, join proper institutions for higher studies, select a job from various options etc.

- **Tutorial classes:**
  - Even though the classes end at 3.30pm, all the faculty members will be available till 4.30pm. This time is spent for tutorial sessions which include face to face interaction with faculty member and student. A student group of maximum 20 is allotted to each faculty so that maximum attention is on the students. The activities of tutorial sessions varies depending on the ideas of the faculty allotted, but serves the purpose of understanding the student in his learning abilities, problems in all areas, student to student relation positions and student to faculty relation positions.

  - A faculty member is in charge of tutorial sessions and all the tutorial reports are collected by him/her at the end of year. These reports are a major reference for the faculty members for planning their activities in the next year.

- Informal Counselling is provided by the class teachers to the needy students, both at UG and PG level.

- **Open Houses**

Parent Teacher meetings serves us invaluably to improve the academic and nonacademic potentials of the student. Face to face discussion with parent with the faculty and student arranged. This session serves as ice breakers in turn affects positively in the overall development of the student personality.

- **Career and placement cell:**

The Collegehas a full time guidance officer who assists all students to take decisions about their future. In his office he allows the students to use Internet facilities and to take hard copy of valuable information.

- **Study Tours**

Study tours and field visits are arranged by all Departments. Economics Department have conducted a survey in the nearby Karumalloor Panchayat to identify the living status of the people in the panchayat and the output of this survey further used by the Panchayat and the Government to take policy decisions.

5.1.9. Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the Programme).

The Parent Teacher Association of the College gives special interest to placements and so we have a fulltime placement officer having MBA qualification who promptly informs students about the openings, arranges training classes, conducting mock tests and finally presents them before the interview so that the students get placed in first chance itself.

Table 5.4: listtheCompany names and total number of students placed

Sl. No	NAME OF THE COMPANY	TOTAL PLACEMENT	DATE
1	Tech Mahindra	21	12/10/2014
2	Wipro	27	24/01/2015
3	UST Global	2	26/12/2014
4	Sutherland Global Services	5	27/03/2015
5	INDUSIND BANK	2	23/05/2015
6	Infosys	4	02/02/2015
7	TCS	3	01/10/2015

8	Employment Mobility Centre	20	26/09/2015
9	Microtec Events	5	28/01/2015
10	Atees Infomedia	5	23/05/2015
11	CIAL Nedumbasserry	28	22/01/2016
12	TCS	1	12/01/2016
13	Mphasis	1	13/01/2016
14	Federal Bank	23	20/05/2016
15	Coral Business Solutions	8	29/06/2016
16	UST Global	3	27/04/2016
17	Godrej	1	25/06/2016
Total	**159**		

A separate placement cell functions in MBA to meet with the business and financial opportunities.

5.1.10. Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

Yes. The grievance redressal cell of the College has the following members. The grievance redressal cell accepts grievances from students as well as staff of the College and takes appropriate steps to satisfy the grievance.

Table 5.5: Details of student grievance redressal cell

Name	Designation
Dr.Anil Kumar M.	Convener
Dr.Thara K.Simon	Associate Professor
Dr.Muse Mary George	Associate Professor
Dr.Mini Alice	Assistant Professor
Dr.Sebastian Joseph	Assistant Professor

The institution gives great priority to understanding and redressing the grievances of the students. A complaint/suggestion box is kept in the ladies waiting room and one in front of office and the complaints are tracked every month. Students' representatives in the union also bring students' grievances to the attention of the Management. A Student Grievance Redressal Cell is constituted regularly. Some of the grievances reported and redressed are given below:

- More toilet facilities with necessary amenities have been madeavailable.
- Classrooms are kept neat and tidy, properly electrified, fans are alsoprovided.
- Water purifier facility has been provided for pure drinkingwater.
- Necessary facilities in the girls' rest rooms like Medical kit, Napkin

Wending Mechine,etc.

5.1.11. What are the institutional provisions for resolving issues pertaining to sexual harassment?

The College has an Anti- sexual harassment cell consisting of the following members constituted by the staff council of the College and the College follows university norms for this.

Table 5.6: Details of Anti- sexual harassment cell

Name	Designation
Dr. Mini Alice	Convener
Dr,P. V. Sreenivasan	Associate Professor
Ms. Julie Ann Joseph	Assistant Professor
Dr. Neena Joseph	N.G.O Representative

We have provisions for women students to report gender discrimination complaints in the College website. The College has 05 women hostels and the students are encouraged to discuss their problems with the hostel wardens. We have complaint boxes placed in ladies rest room and canteen to accept complaints. The complaints are directed to respective committees immediately for taking suitable measures.

The College conducts an orientation Programme to students along with their parents before the commencement of the course both in UG and PG and all the facilities in the College are briefed during the meeting. The institution ensures a comfortable learning and working atmosphere for women and any sort of harassment- personal, social or sexual are duly dealt with. Special care is taken to ensure equal opportunities for women, as majority of our teachers and students are women. The Women Cell in the College also ensures a free and safe environment for women students. Counselling is done at the College level in general and at the Department level in particular. No Major problem of sexual harassment has been reported sofar.

5.1.12. Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Yes, the College has an anti- ragging committee constituted by the Staff Council and follows the norms provided by the University and state Government.

- The following measures have been effective in curbing the menace of ragging on the campus:

- At the time of admission a statement is signed by the student that he/she will refrain from any sort of anti-socialactivities.
- Class teachers are instructed to be vigilant in detecting and preventing any attempt ofragging.
- The information about the anti- ragging committee is displayed at different parts of the College including at the entrance and at the canteen.

Table 5.7: Details of Anti- Ragging cell

Name	Designation
Dr. P. Thomas Mathew	Principal
Dr. M. I. Punnoose	Dean-Student affairs
Dr.C.Jacob George	Dean-Academic
Mr. C. Sivaraman	Administrative Assistant
Ex.Officio member	Circle Inspector of Police,Aluva
Mr. M. P. Joseph	Area Reporter, Malayala Manorama Daily
Dr.Neena Joseph	N.G.O Representative
Ex.Officio member	President, Karumaloor Panchayat
Ex.Officio member	Vice President,P.T.A.

5.1.13. Enumerate the welfare schemes made available to students by the institution.

Table 5.8: Details of welfare Schemes and Co ordinating Department

Name of scheme	Coordinating Department
Canteen	Dr M. I. Punnoose, Dean-Student affairs
Cooperative society	Dr,P.V.Sreenivasan(President) Mr. P.K.Paulose(Secretary)
Hostels at reduced rate	Dr.Thara K.Simon,Bursar
Merit cum means scholarships in different Departments	Dr.Thara K.Simon,Bursar
House construction, medical aids, list circulation, staff association contribution to union, needy treatments,	Dr.Jenish Paul-Staff Advisor Mr.Kurian C.Soman- N.S.S.Programmee Officer Dr.Anil Kumar-P.T.A.Secretary
PostOffice	Manager,U.C.College

SportsHostel	Physical Education Department

5.1.14. Does the institution have a registered Alumni Association? If 'yes', what are its activities and major contributions for institutional, academic and infrastructure development?

Yes, we have Alumni chapters in different parts of the world. UC College Alumni Association is a registered one and conducts Alumni meeting and get together with family once in a year, on the second Saturday of November. Also we have alumni chapters as UCCAANA (U.C. College Alumni Association of North America), Kuwait which supports us by instituting an amount Rs. 18,209.67.00 as endowments from the year 2012 to 2016.

A special website is designed and hosted for Alumni, so that they can register their names and stay connected with their almamater.

5.2. StudentProgression

5.2.1. Provide the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

Table 5.9: Details of the percentage of Students Progression percentage

Year	UG to PG	PG to M. Phil	PG to PhD	Campus Selection	
				UG	PG
2012	20%	2%	3%	5%	6%
2013	26%	1.6%	3%	6%	10%
2014	30%	2%	3.5%	3.5%	8%
2015	27%	3%	3%	4%	9%

5.2.2. Provide details of the Programme wise pass percentage and completion rate for the last four years (cohort wise/ batch wise as stipulated by the university)? Furnish Programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

Table 5.10: Details of the pass percentage in Post Graduate programme

Departments	2012-13		2013-14		2014-15		2015-16
	UCC	OC	UCC	OC	UCC	OC	
History	100.00		60.00		75.00		
Economics	93.00		61.50		70.00		

English	85.00	58	24.00	32	61.50	32	Result awaited
Malayalam	88.00		90.00		81.25	69	
Maths	44.00		57.00		84.62		
Physics	67.00	93	92.30	80	66.67	66	
Chemistry	64.00		55.50		50.00		
Botany	69.00		66.60		53.23		
Zoology	-------				58.00		
Psychology	56.00		90.00		77.78		
Bio Technology	68.00		33.30		72.20		
Bio informatics	79.00		44.40		100		
M.C.A M.C.A(Lateral)	80.00		50.87		65.00		76.30 58.06
M.B.A					61.05		17.39

Table 5.11: Details of the pass percentage in UnderGraduate programme

Departments	2012-13		2013-14		2014-15		2015-16	
	UCC	OC	UCC	OC	UCC	OC	UCC	OC
History	78.00	-	63.00	-	84.6	-	25.00	-
Economics	84.00	93	81.00	92	81.4	82	27.08	52
English	89.47	92	90.69	93	84.44	92	50.00	39
Malayalam	68.00	85	57.50	80	57.8	81	7.89	33
Maths	92.00	82	86.00	83	77.5	87	59.09	67
Physics	80.00	97	91.00	97	64.5	84	48.21	45
Chemistry	81.00	96	76.00	100	83.7	100	50.00	73
Botany	96.00	100	79.00	95	93.50	100	48.19	55
Zoology	85.00	100	96.00	100	82.00	90	67.86	52
Psychology	70.00		86.00		97.00		54.29	
Computer Science	92.00		95.00		75.8		50.00	
E&Computer Maintenance	96.00		59.00		40.6		29.03	
BTSP	82.00		100		84.6		60.87	
B.Com(Tax)	------		----		----		-----	
B.Com(Computer)	------		-----		-----		43.59	93

Table 5.12: Details of ranks in M.G. University

Year	Ranks in M.G. University exams	PG	UG
2011	First	4	6
	Second	1	2
	Third		3
2012	First	2	1
	Second	4	1

	Third	1	1
	Fourth	1	
2013	Second	3	
	Third	1	
	Fourth	1	
	Seventh	1	
	Ninth	1	
2014(CBCS)	A+	1	2
2015(CBCS)	A+	1	

5.2.3. How does the institution facilitate student progression to higher level of education and/ or towards employment?

We have 14 PG courses and research facilities in 9Departments which themselves serve as an inspiration andencouragement to pursue higher education. Announcements about placement opportunities, higher education notification opportunities and vacancies to courses and job positions are displayed at library and placement cell.

Table 5.13: Details of action plan, result and the method of implementation by the institution to facilitate student progression to higher level of education

Method Implemented	Action & Result
Tutorial Groups	The tutor understands the difficulties of the students and conveys to corresponding channels.
Remedial Teaching	At the first semester itself the teachers identify the slow learners and provide extra care after regular hours
Zero hour	Special time tables are set by teachers to complete the syllabus by compensating missed classes.
Subject Knowledge evaluation method	The Departments evaluate the student knowledge level about the subject by conducting a discussion or a test and courses are given to the weaker students so that all the students are at same capacity while starting the course.
Seminar/ Conference/Workshops	Every Department conducts at least 2invited talks or seminars on recent trends on their own subjects and allows students to participate and present papers.
Mock Placement drives	The placement cell conducts mock placement drives after providing aptitude classes and reasoning classes. Resume preparation workshop, group discussion trainings and mock interviews are done.

5.2.4. Enumerate the special support provided to students who are at risk of failure and dropout?

- We have very low drop out ratio from our College.
- Presently the girl students contribute 70% of total strength of College and the marriage of these studentsat the age of 21 or less contributes to a few drop out number.
- Dropout due to other reasons is practically nil because of the best practices followed by the College like:
- Good teacher student relationship: Teachers, making themselves available to the students, outside class hours for clearing doubts and making close personal relationship.
- Conducting add- on courses which enhance employability of students.
- The College plans and executes well defined academic and supporting programmes such as Tutorial system, Remedial coaching, peer teaching in some cases, Open House programmes, Student Counselling, Value education classes and Placement services.
- Financial support by individual teachers, Departments and alumni abroad (as sponsorship) are provided to the students (in cases identified by respective teachers) as follows:
    - Free food arranged through the College canteen.
    - Text books and notebooks free of cost.
    - Hospital expenses for students (and in special cases to needy parents also).

5.3. Student Participation and Activities

5.3.1. List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and programme calendar.

Table 5.13:Detailsofacheivements in Sports activities (M.G.University)

Sl:No	Sports/ Games events	Position-MGU Championship			
		2012-13	2013-14	2014-15	20-15-16
1	Athletics	P(M/W)	P(M/W)	P(M/W)	P(M/W)
2	Aquatics	P(M)	2nd (W) 3rd (M)	2nd (W) 3rd (M)	2nd (W) 4th (M)
3	Basketball	P(M)	P(M)	P(M)	P(M)
4	Baseball	1st (W) 3rd (M)	1st (M) 2nd (W)	1st (M) 3rd (W)	2nd (M)
5	Cricket	1st (W) P(M)	P(W) P(M)	P(W) P(M	P(W) P(M
6	Fencing	1st (W)	1st (W)	1st (W)	2nd (W) P(M)
7	Football	3rd (W) P(M)	P(W) P(M)	P(W) P(M)	P(W) P(M)
8	Hockey	1st (M/W)	1st (M/W)	1st (M/W)	1st (M/W)
9	Judo	2nd (W)	1st (W) 3rd (M)	2nd (W) 3rd (M)	2nd (W) 3rd (M)

10	Netball	2nd (M)	1st (M)	1st (M) 2nd (W)	2nd (M) 4th (W)
11	Shuttle Badminton	P(W) P(W)	P(W) P(M)	P(W) P(M)	P(W) P(M)
12	Softball	1st (W) P (M)	1st (M) 2nd (W)	1st (M) 2nd (W)	2nd (M)
13	Table Tennis	3rd (W)	P(W) P(M)	P(W) P(M)	P(W) P(M)
14	Tennis	3rd(W)	3rd(W)	4th W)	
15	Water-polo	4th (M)	1st (M)	1st (M)	2nd (M)

Abbreviations:

- P - Participation
- 1st - Winner
- 2nd - Runners up
- 3rd - Third
- 4th - Fourth
- M - Men Team
- W - Women Team

Table 5.14: Sports Events Organized by the College

Year	District level	MGU Level	State level	National Level
2012-13	Ernakulam district Senior league	Hockey(M) Baseball	Dr.A.K.Baby Memorial South Zone Hockey tournament	**South Zone All India Inter University Women Championship**
	M.G,University championship	Baseball Cricket(W)		
2013-14	Ernakulam district Senior league	Hockey(M) Baseball	UCC Basketball Tournament Dr.A.K.Baby Memorial South Zone Hockey tournament	
	M.G.University championship	Hockey(W) Netball(M/W)		
2014-15	Ernakulam district Senior league	Hockey(M) Baseball	Kerala State Senior Hockey girls and boys championship Run Kerala Run – January 20th 2015	35th National games selection trials and first phase camps for Hockey men and women section. 35th National games selection trials in Netball men and women Kerala team
	PYKKA – Women Ernakulam district	Hockey –		
	Ernakulam district Schoolchampionship	Hockey		
	YMCA inter school tournament	Football		
	M.G.University championship	Judo(M/W) Hockey (M)		

2015-16	Ernakulam district Senior league		UCC Basketball Tournament Dr.A.K.Baby Memorial South Zone Hockey tournament	Kerala state Hockey sub-junior girls and boys championship Kerala state Hockey Senior girls and boys championship
	PYKKA – Women Ernakulam district	Hockey –		
	Ernakulam district Schoolchampionship	Hockey		
	YMCA inter school tournament	Football		
	M.G.University championship	Hockey(W) Basketball(W)		

5.3.2. Furnish the details of major Student achievements in co-curricular, extracurricular and cultural activities at different levels: University/ State/ Zonal/ National/ International, etc. for the previous four years.

Table 5.15:**Majorstudents'achievementsinSports**

SPORTS/ GAMES EVENTS		YEAR & ACHIEVEMENTS 2012-13		
	MGU CHAMPIONSHIP	OVER ALL POSITION IN MGU	STUDENTSPARTICIPATION - AIU	STUDENTSPARTICIPATION - Nationals
Baseball	Winner (W) Third (M)	Fourth	6(W) 2(M)	
Cricket	Winner (W)		4(W)	Silver-2(M)
Fencing	Winner(W)		4(W)	
Football	Third (W)			
Hockey	Winners (M/W)		13(W) 9(M)	P-6(W)
Judo	Runners up (W) Fourth(M)		3 (W)	
Netball	Runners up (M)		1(M)	Silver-2(M)
Softball	Winner (W) Third (M)		4(W) 2(M)	Gold-2(W) Silver-1(M)
Table Tennis	Third (W)			
Tennis	Third (W)		1(W)	
Water-polo	Fourth (M)		1(M)	

SPORTS/ GAMES EVENTS	YEAR & ACHIEVEMENTS 2013-14			
	MGU CHAMPIONSHIP	OVER ALL POSITION IN MGU	NO. OF STUDENTS' PARTICIPATION -AIU	STUDENTS PARTICIPATION - Nationals

Aquatics	Runners up (W) Third (M)		1(W) 1(M)	
Baseball	Winner (M) Runners up (W)		4(W) 5(M)	P(1-W) P(5-M)
Fencing	Winner (W)		4(W)	
Hockey	Winner (M/W)		9(W) 8(M)	P(12-W) P(3-M)
Judo	Winner (W) Third (M)	FIFTH	2(W) 1(M)	
Netball	Winner (M)		5(M)	P(4-M)
Softball	Winner (M) Runners up (W)		4(W) 4(M)	Gold-1(W) Silver – 1(M)
Tennis	Third(W)		1(W)	
Water polo	Winner (M)		6(M)	

SPORTS/ GAMES EVENTS	YEAR & ACHIEVEMENTS 2014-15			
	MGU CHAMPION SHIP	OVER ALL POSITION IN MGU	NO. OF STUDENTS' PARTICIPATION -AIU	STUDENTS PARTICIPATION - Nationals
Aquatics	Runners up (W) Third (M)		1(W)	
Baseball	Winner (M) Third (W)		2(W) 5(M)	P(1-M)
Fencing	Winner (W)		5(W)	
Football	Fouth(w)		1(W)	
Hockey	Winners (M/W)		8(W) 8(M)	P(2-W) P(2-M)
Judo	Runners Up (W) Third (M)	FIFTH	1(W)	P(1-W)
Netball	Winner(M) Runners up (W)		2(W) 5(M)	Bronze -3 (M—35th National Games) Bronze-1(M-Sr.Nationals)
Softball	Winner (M) Third(W)		3(W) 5(M)	P(2-M)
Tennis	Fourth (W)			
Water-polo	Winner (M)		7(M)	

INTER-NATIONALShilpa Catherene(BASEBALL)

SPORTS/ GAMES EVENTS	YEAR & ACHIEVEMENTS 2015-16			
	MGU CHAMPION SHIP	OVER ALL POSITION IN MGU	NO. OF STUDENTS' PARTICIPATION AIU	STUDENTS PARTICIPATION - Nationals
Aquatics	Runners up (W) Fourth (M)	**Fourth**	1(W)	
Baseball	Runners up (M)		4(M)	P2(M)
Cricket			1(1)	
Fencing	Runners up (W)		2(W)	
Hockey	Winner (M/W)		9(W) 9(M)	P(7-W) P(5-M)
Judo	Runners up (W) Third (M)		1(W)	
Netball	Runners up (M) Fourth (W)		2(W) 2(M)	
Softball	Runners up (M)		3(M)	
Water-polo	Runners up (M)		2(M)	
Throw Ball				Bronze-1(M) P-Senior National-2(M)

Table 5.16:Students' achievements in M.G.University Arts/Cultural event

CULTURAL ACTIVITY	YEAR & ACHIEVEMENTS 2013-14	
	OVER ALL POSITION IN MG UNIVERSITY	UNIVERSITY PLACE
Kavya keli	4 th Position Ms. Neenu Rajeev Kalathilakam	3
Akshara slogam		3
Elocution-Malayalam		1
Mono Act		1

Fancy Drees		1
Katha Prasangam		2
Kolash		2
Western Group song		2

CULTURAL ACTIVITY MGU CHAMPIONSHIP	YEAR & ACHIEVEMENTS 2014-15	
	OVER ALL POSITION IN MG UNIVERSITY	UNIVERSIT PLACE
Mono Act	7 th Position	2
Kathaprasangam		1
Malayalam Elocution		3
Kavyakeli		1
Sasthreya sangeetam		3
English Story Writing		1

CULTURAL ACTIVITY MGU CHAMPIONSHIP	YEAR & ACHIEVEMENTS 2015-16	
	OVER ALL POSITION IN MG UNIVERSITY	University Place
Aksharaslogam	6th Position	1
Film Review		1
Mono Act		2
Mime		2
Best actor		1
KavyaKeli		2
Kathaprasangam		2
Quize		2

Photography		2

Table 5.17: **Major students' achievements in N.C.C.**

YEAR & ACHIEVEMENTS IN N.C.C. 2012-13	
STUDENTS' PARTICIPATION IN ALL INDIA LEVEL	
Name	Event
SUO Vima Valsan, JUO Joice Jolly, JUO Ragi Rajendran Sgt. Judy Ambrose-	All India Girls Trekking Camp at Nilgiri from 14 to 22 May, 2012
CSM Oshin Jacob, Cdt Jisma Baby-	National Integration Camp at Mysore from 25 May to 5 June, 2012
CSM Oshin Jacob-	IGC in Shooting at Kottayam from 10 to 19 May, 2012
Sgt Suby-	IGC of Thal Sainik Camp selection at Kozhikode from 31 July to 9 Aug, 2012
Sgt Suby-	Army Attachment Camp at Officer's Training Academy, Chennai from 17 to 28 September, 2012
UO Shyam Sunder	TSC
CSM Gokul Janardanan	RDC ,IMA

YEAR & ACHIEVEMENTS 2013-14	
STUDENTS' PARTICIPATION IN ALL INDIA LEVEL	
Name	Event
SUO Shibin Shaji Varghese CSM Haridas M Naik	RD Parade (2014)
LCpl. Meenu Jose SGT Sowraf Purushothaman	Thal Sainik Camp at New Delhi
SGT. Basil P Varghese SGT Dheeraj Mohanan	NIC-Jmmu

YEAR & ACHIEVEMENTS 2014-15
STUDENTS' PARTICIPATION IN ALL INDIA LEVEL

Name	Event
SUO Jayalakshmi MP, JUO Aathira Nair, Sgt. Meera Jacob-. SUO.Mohammed Irfan CSM Akhil Alias	Republic day parade (RD) 2015
JUO. Ajith Jayasankar	TSC-Delhi
Sgt.Jithin Johnson L.Capt. Basil P.Baby CQMS Sumi Maria Sunny-	NIC(Punjab/Assam)
SUO.Mohammed Irfan JUO Aathira Nair Sgt. Meera Jacob-.	YEP
YEAR & ACHIEVEMENTS 2015-16	
STUDENTS' PARTICIPATION IN ALL INDIA LEVEL	
Name	Event
JUO Aathira Nair-	YEP Singapore
JUO Meera Jacob-	YEP Bhutan
SUO Sefi George	YEP Srilanka
JUO Siji Elsa Paul, SUO Sefi George SUO Basil Jose	Republic day parade(RD) 2016
CQMS Dhananjay K.S. CQMS Reshma R SUO Dilsha Davis JUO Sam Shaji JUO Reshma Sunilkumar CPL Ajith P.V. CSM Vishnu V.V.,SGT Melvin Jose,SGT Jithin K Manoj	NIC Kozhikode NIC Kozhikode NIC Malappuram NIC Alappuzha NIC Alappuzha NIC Mumbai National Trekking(Malayattor,Bihar,Maharastra)
CSM Sruthy Sreedharan	Rock climbing camp Gwalior

Table 5.18: **Students' Participation in Cultural events in All India level**

YEAR & ACHIEVEMENT 2012-2016
STUDENTS' PARTICIPATION IN CULTURAL EVENTS IN ALL INDIA LEVEL

Name	YEAR	Event
Mr.Blesson George	2013-14	Western Music-First Place In the All India Inter University Competetion
Mr.Blesson George Ms.Donna Achamma Ninan	2014-15	Western Music-First Place In the All India Inter University Competetion
Ms.Donna Achamma Ninan	2015-16	Western Music-First Place In the All India Inter University Competetion

5.3.3. How does the College seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

Based on a well structured feedback Performa, assessments of teachers by students arebeingdoneconstantly.Basedonthefeedbackform,theprosandconsare identified in the Departmental staff meeting and corrective measures are immediately taken so as to enable the student community to improve their involvement in various activities in the College. The Alumni meetings serve as good feedback sessions. Since our Alumni are spread over countries and different positions all types of opportunities and happenings across world are analyzed by the College.

We have an Alumni website maintained separately by the College in which all alumni can register and can stay in touch with the College. All the news and the vents are intimated to Alumni through the website and we have provision to send mails to them group wise, batch wise or individually. These feedbacks help to improve quality and performance of the College in next year.

5.3.4. How does the College involve and encourage students to publish materials like catalogues, wall magazines, College magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.

The College is actively involved and encourages students to take necessary steps to publish the materials every year. The College provides financial assistance for the publication of the College magazine. The Editorial board comprising of teachers and students' representatives evaluate and edit the manuscripts for the final publication.

Table 5.19: Details of College student union Magazine

Year	Magazine Name
2012	Engeda-Randu U.C.
2013	

2014	Ende
2015	Kyamara

5.3.5 DoestheCollegehaveaStudentCounciloranysimilarbody? Givedetailsonitsselection,constitution,activitiesandfunding.

College elections are conducted every academic year to get representatives of students through presidential/ parliament mode of elections as per the direction of the university. The College has a College union fund for the events of the College. The council consists of following representatives.

Table 5.20: Details of College student Council

Name of post	Number
Chairman	1
Vice chairperson	1
University Union Councillor	2
Arts Club Secretary	1
General Secretary	1
Lady representative	2
First UG representative	1
Second UG representative	1
Third UG representative	1
First PG representative	1
Second PG representative	1

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

Table 5.21: Student representatives in academic and administrative bodies.

Name of committee	Number of students
Antiragging Committee	02
Canteen	01
Hostel	Secretary

Department Associations	Secretary
Athletic committees	Team Captains
Seeks help for seminars,workshops	Association Secretary
College union election	02
NCC-Boys and Girls	03+03
NSS	02
Librarycommittee	02

5.3.7. How does the institution network and collaborate with the Alumni and former faculty of the Institution.

- Alumni are the strength of the institution which has now an age of 95 years. Our alumni are spread over different government positions, Colleges and spread across countries. These factors help us to create different chapters internationally. We have Alumni chapters in North America, Kuwait and they function very systematically.

- We conduct two Alumni get together meetings in an year as official get-togethers and all Departments have their own Alumni day separately.We have different batch get together (Each batch conduct a get together usually during Saturdays). The major Alumni meets are held in the month of on November second Saturday and Middle East alumni meet on July Second Saturday.

- Former faculty members are our blessings and guides for the young generation. We have family get together of all faculty members once in an year. All Departments arrange get together of their faculty members both present and retired. The retired teachers association meets once in a year and shares views and opinions regarding the functioning of the College. They participate actively in various functions organized by the College and Departments.

CRITERION VI:

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1. Institutional Visionand Leadership

6.1.1. State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve,institution'straditions and value orientations, vision for the future,etc.?

Vision:
Serve the nation by facilitating and modeling wholesome and socially relevant education to actualize the values of humanism in accordance with the revelation in Jesus Christ

Mission
The Union Christian College, extending God's love to all, is committed to providing such education that facilitates the growth of the whole person and brings out the best in him or her that they would serve our nation and humanity at large and the ecosystem as intellectually competent, morally upright and spiritually inspired persons.

The College strives to live out its commitments by the following strategic initiatives in line with its unique history and cherished values.

1. Programmes and activities aimed at improving academic standards and achieving academic excellence
    - Faculty Improvement programmes: special training events for teachers in curriculum development, academic audit, alternative teaching and assessment techniques
    - Student evaluation of teachers and peer evaluation to enhance the performance of teachers
    - Remedial education and tutorial programmes; mentoring and peer teaching
    - Providing better library facilities and training students in the use of technology supported learning
    - Evolving inter-departmental and inter- disciplinary educational programmes
    - Strengthening Research programmes and Research Centers: Facilitating research orientation among teachers and students
    - Facilitating national and international seminars and collaborative research

4.4 Innovation in academic activities by offering courses designed to enable students to be competent in community life and to render them fit for the challenges of their personal and professional lives.

3. Provide add-on courses that have a practical and vocational orientation
4. Provide extra-curricular opportunities that facilitate maximum student-

Teacher interaction in the form of sports and games, clubs and societies,
Cultural and literary activities

1. Strengthening the residential system, providing maximum opportunities for out of

the class interaction

6. Establishing greater international linkages, promoting international seminars and conferences, facilitating faculty and student exchanges, joint publications of journals and books and encouraging collaborative research.Further internationalization of education to meet global standards and facilitate solutions to global concerns
7. Provide adequate infrastructure for the (qualitative and quantitative)Higher Education
8. Enhancing student services by improving student amenities like library facilities access to internet and placement services
9. Providing structures and programmes that would ensure women empowerment and gender equity
10. Facilitating ethical discourses through the Center for the Study of Religion and Society; offering programmes to ensure value orientation to learning and to provide alternative models in sacrificial service
11. Provide service-learning and community extension opportunities to the neighboring communities, especially the most marginal communities under the initiative of each Department.
12. Resource mobilization for the development of the Collegethrough a Development Office manned by the Development Officer

The Vision and Mission of the College are well aligned with the objectives of the higher education policy of the nation. Established in 1921 out of indigenous initiative, Union Christian College has always been in the forefront in adapting to the changing needs of the society while continuing to pursue its goals and objectives. The special features of this institution are interdenominational basis of administration, participation of the faculty in the governance of the College, cosmopolitan and liberal campus life, and ample opportunity for interaction between students and teachers in and outside the class room activities. All the academic, administrative and co-curricular initiatives of the College are aimed at achieving the mission of the College, by focusing on the holistic development of students, empowering them intellectually, morally, emotionally and spiritually to take up their part in nation building. The College strives to ensure transparency, participation, and quality at all levels of administrative and academic functions. Besides, it enables students and teachers to extend their knowledge, skills and expertise to surrounding communities, especially to those who are most marginalized and vulnerable. It provides special care to the needs of the surrounding community through various extension activities and service-learning initiatives and strives for academic excellence on a par with international standards through various programmes to augment and supplement the regular academic activities and to foster international linkages.

The goals and objectives of the College are four-fold; academic goals, social goals, character building and value orientation. The College commits itself to the promotion of justice and peace, preservation and enhancement of the integrity of creation, fostering of a wholesome simple life style combating the ill-effects of corruption, powerlessness of the marginalized, violence and criminalization. Empowering the powerless, particularly the tribals, dalits, women and other vulnerable sections of the society form a significant part of this commitment. It seeks to nurture probity in

public life and to promote national integration. A student acceptance/application ratio of <10% by the College is a sign of the College's academic standing.

The College has students coming in from different backgrounds of religion; economic status and society.Almost 40 percentage of the students belong to minority groups and are also from rural areas. In allegiance to the Vision and Mission, the College constantly strives towards the upliftment of students from these sections of the society.

Academics

The College functions within the framework of an affiliated system, but has always sought to make a difference through the choices made regarding the courses offered as elective and open courses. Here, students get an opportunity to keep themselves updated. Interdisciplinary open courses giving importance to environmental and health issues such as Environmental History, Floriculture, Health, Physical Education and Life skills, etc are also offered. In addition to the existing regular courses, the College offers MBA and MCA, MSc Biotechnology and MSc Bioinformatics and UG programmes in Computer Maintenance and Electronics, Boilogical Techniques and Specimen Prepration,B. Com and Advanced diploma in Archeology and Museology in the Self-Financing stream.

Research and Faculty Development

The College takes a commendable lead in research with 110 research students working in our 9 research centers; more than 82% are women scholars.More than 200 research papers have been published during the assessmentperiod,and the College has successfully established much international collaboration that are of great benefit to the students. The Collegeextends its facilities to the research Departments and the research forum; the research forum of the Collegeorganizesvarious educational events for the research studentsincluding the recognized centre for Ph.D course work of Mahatma Gandhi University.

The College management has always been supportive in providing maximum facilities to its staff in quality improvement. Union Christian Collegeselects and appoints faculty purely based on merit. The management is committed to inducting highly qualified faculty; it provides maximum opportunity for faculty improvement by encouraging them to go for doctoral and post-doctoral studies and national and international conferences and seminars. Management facilitates international faculty exchanges with the support of international bodies like UBCHEA and with Government support (like FLAIR). In recent years, many members of the College could spend considerable time in international institutions to get training in administrative leadership, engage in collaborative research, andlearn more about new pedagogical approachesin higher education. In addition, the Management, under the auspices of the IQAC, organizes seminars and workshops aiming at faculty development.

International linkages

International Linkages have been promoted through the Centre for Human Potentials and Community Development (CHPCD). Joint projects and faculty and student exchange programmes have been developed with International Christian University, Japan, Hope College, Michigan, Fu Jen Catholicate University, Taiwan. The College fosters partnership with the United Board for Christian Higher Education in Asia (UBCHEA), USA, and the Association of Presbyterian Colleges and Universities(APCU), USA, which supports many exchange programmes and projects. Our students enjoy Scranton Scholarship from the Scranton Women's Leadership Centre, South Korea, International Christian University Foundation Scholarship (facilitating an exchange of student from UCC), Kano Yamamoto Scholarship, a designated grant from United Board (given to students involved in Service Learning initiatives).

Residential System

The College was started as a purely residential institution to maximize out-of- the class room interaction between teachers and students. However, the College, due to certain socio-political compulsions,had to modify the model to a mix of residential and day scholars. Guruji Rabindranath Tagore inaugurated the first Hostel for students in 1922, which was named after him, the Tagore Hostel. At present, the College runs7 hostels for students (2 for men and 5 for women) and 14 staff quarters in the campus;construction work for a new hostel for women is in progress.The College is making all-out effort to restore its residential life; the first effort in this direction is to improve its academic profile and create a distinctive edge over other higher educational institutionsby building on its unique heritage.

Service learning & Community Extension Activities

The extension activities of the College are well in tune with the vision-mission statements of the College. Service Learning Center (SLC) conducts a variety of programmes to help the physically challenged and the socially and economically disadvantaged. They initiate programmes like audio recording of text books, course preparation, etc. for the blind students in the College and for the students in the Kerala School for the Blind, Aluva. A **pain and palliative care unit** constituted of students and faculty functions under the SLC to offer regular physical and financial aid to those who are in need of their services. Continuing extension programmes are initiated through theNCC and NSS units, Women's Cell, the Centre for Environmental Studies, Science Forum and the Student Christian Fellowship. Each Department is also encouraged to have a community extension/service learning component in their academic activities.

A **Counselling Centre**functions within the College under the Pseudonym **"BLISS"**under the care of a counselor who regularly visits the College; the counsellor is further helped by trained faculty from the Psychology Department and a member of the faculty from each Department of the College. The College has a **Career Guidance and Placement cell**, which guides the students in their choice of careers and helps in finding placements of their liking and potential. Regular Value Education

sessions are conducted everyweek in the second term of the academic year of the College under the programme***Issues and Ethical Responses*** to nurture the students in a value based system. The regular morning worship is attended by students and staff of the College irrespective of caste and creed. There are a few outreach programmes by students under the supervision of faculty from Physics and Botany Departments like '**the sewage water treatment project**', and the '**river bank protection project**' that are focused on inculcating students with a wider awareness of the societal and environmental issues and play a role in educating the rural communities.

The Crèche Facility (Kid's Dale) newly established in the College campus extends its services to both the College community and the public in the neighborhood of the College. With a majority of women faculty, it helps them to have the comfort of having the babies close to them and feed them during intervals. **Remedial Tutorial classes** are arranged to cater to the academic upliftment of students weak in different subjects, and '**the Walk with Scholar'** and **'Additional Skill Acquisition Programme' (ASAP)** for students with greater potential for leadership are being conducted in the College in an exemplary manner.

A **Folk Lore centre** functions in the College to organize ethnical and tribal studies and is focused on building up a database on tribal life and culture. The **Centre for the Study of Religion and Society(CSRS**) which was established and sustained through the financial resources offered by distinguished alumni of the Collegeorganizes lectures, seminars, workshops and awareness programmes that sensitize and enlightenstudents on ethical issues that confront our society and raised by advances in science and technology. A series of lectures have been organized under the auspices of CSRS to facilitate encounter with personalities with unique contribution and distinction in different realms of life. Another programme on studying **"Alternative Lives"** have been initiated to study the lives of people who, by their extra-ordinary lives of service and commitment made a difference to this world; students interview them, study their lives, document them and finally would publish them in a book form. This provides students with various skills in interviewing, writing, editing, etc. and at the same time, presents with models of extra-ordinary courage and conviction that they can opt to follow as models in life.

Infrastructural Projects

The Works Department of the College takes up all the works of the College under the Supervision of Works Superintendent, a senior faculty and a committee to assist him/ her. The New Academic Block, MBA block, the renovated and additional rooms in the Women's Hostel, are some of the newly added structures in the College campus. The following infrastructural facilities were renovated to augment the existing facilities: renovation of BT&SP block, modified warden's quarters and staff quarters, Principal's office, Hockey court, etc. The building of a new women's hostel is in progress and a proposal has been submitted to the USAID (United States AID) for the construction of a New Library building with modern facilities. Wi-Fi connection is made available to all the Departments in the College and soft-skill development programmes are initiated under the auspices of the computer Department.

Physical Education

The Department of Physical education offers an enriching and conducive ambience to its students to excel in sports and games. The College could make great strides in sports and games at the University level competitions; the College has produced a number of national players. The Collegeruns a sports hostel for hockey (men) and hockey women; it has five play grounds and a gymnasium. Itsupplies the students with sports accessories.

Mobilization of Funds& Development Office

In the past five years, the College has been able to mobilize more than 2. 3 crores INR through national and international research projects grants and in addition around 50 lakhs INR as endowments and scholarships instituted by the alumni and well-wishers of the CollegE. Faculty contributed35 lakhs INRfor building fund. A Development Office has been established with the objective of a nodal center for alumni relations, community relations and funding partner relations to further the strategic objectives of the College in integrating, transmitting and applying knowledge. It also has the responsibility of coordinating the various constituencies of the College and of facilitating the envisioning of its goals and priorities in keeping with its distinctive tradition and values.It is expected that this Office will mobilize the College to prepare for and embark upon many developmental projects aiming at the Colleges, Centenary in 2021.

Women Empowerment

While the latest UN Human Development report (14 December 2015), indicates that India ranks very low in Human Development Index and in Gender Inequality Index (130^{th}), the College has contributed significantly to women empowerment. 68% of the teaching faculties are women and 88% of the post graduate students and 82% of the research (Ph.D) students in the College are women. Activities of the Women's Cell in the College are aimed at addressing issues of gender inequality and to facilitate women empowerment. The Cell offers talks, seminars, workshops and other programmes to enlighten students of both genders on the need for women empowerment and gender equity and their role to act as agents of social change.

6.1.2.What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

The College, since1961, has been a registered entity under the Kerala Non-Trading Companies Act. It is owned by **the Union Christian College Association** and managed by its **Standing Council,** which is the apex body of decision making. The Association/ the Standing Council is constituted of 4 members from each of the Cooperating Churches, 8 members from the present faculty who are members of the Inter Church Fellowship (ICF) and the Manager, Principal and the bursar of the College. **Inter Church Fellowship (ICF)** is a voluntary organization of the present faculty from the four co-operating churches involved in the management of the College who commit themselves to serve the College with self-less devotion as God's calling.

The Governing Body/Board of Directors (GB) is constituted of the Manager, Principal, Bursar, four representatives from each of the four co-operating churches

and two representatives of faculty who are members of the ICF. GB acts as a subcommittee of Standing Council which is the apex body of the College. The GB of the College meets regularly to make policy decisions in tune with the guidelines issued by the University and Government periodically and to empower the various committees in the College to act upon them, focussing on the various needs in the College community. Decisions that need immediate action are taken up by the Internal Management Committee (IMC) of the College, which is a sub-committee of the GB itself. All the resolutions taken by GB and IMC are presented in the Standing Council for their approval. **The Inter Church fellowship (ICF)** constituted of the teaching faculty from four different Christian denominations - like Malankara Syrian Orthodox Church, Syrian Jacobite Church, Church of South India and Marthoma Syrian Church- is one of the primary stakeholders and play a key role in initiating many of the policy decisions of the College, thus ensuring a democratic and participatory system of management. The ICF members are actively involved in the academic, administrative, cultural and religious activities of the College.

Deans
The Administrative Dean, Academic Dean and Dean of student affairs help the Principal in carrying out his/her responsibilities delegated to them in the most efficient manner.

The College Staff Council consisting of the Principal, the Heads of Departments, the Librarian and two elected members of the teaching faculty acts as a statutory advisory body that advises the Principal, in decisions on academic and disciplinary matters of the College. The decisions made in the Staff Council will be announced in the Staff association meeting consistingof all the teachers of the College.

The Principal as the final administrative authority of the College ensures its smooth functioning with the support of all the above bodies.

6.1.3 What is the involvement of the leadership in ensuring:

- The policy statements and action plans for fulfillment of the stated mission
- Formulation of action plansfor all operations and incorporation of the same in to the institutional strategic plan
- Interaction with stakeholders
- Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders
- Reinforcing the culture of excellence
- Champion organizational change

a. The policy statements and action plans for fulfilment of the stated mission;

The Governing Board, Internal Management Committee (IMC), ICF and Staff Council take special care to ensure that all policy decisions are taken well aligned with the stated mission of the College. The Principalensures that all the plans are implemented to meet the timely needs of the stake holders and

the society as a whole through the above mentioned statutory structures and other sub-committees formed by the GB or the Staff Council.

b. formulation of action plans for all operations and incorporation of the sameinto the institutional strategic plan

The policy decisions are translated into operational plans by the Governing Body and the Staff Council and other sub-committees that are formed from time to time.

c. Interaction with stakeholders

ICF consisting of the faculty of College meets every week and discusses the requirements of the College; those needing approval from GB and Standing Council are passed on to it through the Principal and the representative members. They also contribute in the development of strategic plans in tune with the vision of the College studying the needs of the changing society.

Committees- The following committees are constituted by the GB, help in policy implementation and recommend their plan of action with its budgetary implications.

- Campus Beautification
- Canteen Committee
- Works Committee
- Student Services
- Career Guidance and Placement
- Network & Website Committee

Meetings at Department level and College level are held regularly to discuss the activities of the College and sub-committees are constituted to carry out the plans.

Parent-Teachers Association (PTA)meets regularly and voice their appreciation, support and concerns regarding academic and co-curricular activities and student services and amenities. Their feedback is taken into account for taking further action to improve the quality of the academic activities and other student services.

The College has one of the oldest and largest alumni network. The Alumni Association is established with a bye law recognized by the Association of the College. The Alumni Reunion takes place on every second Saturday in November. It is organized by the Alumni Association Executive Committee which meets frequently to plan its activities. The Alumni Association has its chapters in the US and Kuwait, which function independently as separate entities. The U. C. College Alumni Association of North America (UCCAANA) remains one of the mainstay in the development of the College. They provide a sizable amount for Scholarships and could mobilize funds for specific developmental projects of the College.
The Retired Teachers' Forum meets occasionally. The Associate Members of the ICF(ICF members who are retired from service in the College) are invited once in a month for the ICF meeting and their concerns are shared with the ICF and they are ploughed back to sharpen the focus and contribute to the development of the College.

Faculty in charge of various Clubs/Forums/Association submits the annual report of the activities to the Principal.

Student appraisal of teachers is carried out annually. Students are given the right to voice their needs and concerns directly to the College authorities through the head of the department and class teachers.**A Grievance Redressal Cell** functions to address the grievances of staff and students.

d. Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders

1. The Standing Council is constituted with experts from education and other areas who help theresearchanalysis and conduct of need analysis, while taking or implementing any policy decision.

2. Internal Quality Assurance Cell(IQAC) also provides their inputs while framing policies after analyzing the current opportunities in the context of contemporary realities.

3. Regular consultations and discussions with the stakeholders like faculty, students and parents are conducted at various levels based on the need of the situation, before the Management takes necessary steps to plan and frame policies for the development of the institution.

e. Reinforcing the culture of excellence

The College always strives to maintain a culture of excellence in its activities.

Union Christian College is one among the first batch of Colleges in India that wentfor NAAC accreditation.

Appointments of faculty is purely based on merit ensuring the services of highly qualified faculty, most of whom have completed their studies and have completed their PhD's from top tier institutions of India.

f. Champion organizational change

Decentralized, democratic and transparent administrative system in the College enables active involvement of all the stake holders of the College in the administration of the College.Regular and systematic academic audit ensures excellence in academics. High thrust given to research and extension activities of faculty and departments has resulted in excellent publications at both national and international level and also in championing social change.

6.1.4. What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

- Governing Body meetings are convened regularly to discuss the status of the implementation of policy decisions and to monitor its progress. The Principal, Manager and Bursar report all the major events concerning the respective administrative matters of the College in the governing body and seek advice regarding effective management.

- The Administrative Dean, Academic Dean and Dean of student affairs take special care to ensure smooth implementation of the action plans formulated in the respective areas of their concern.

- IQAC, the Staff Council and the Sub- committees constituted by the Governing Body co-ordinates and evaluates timely changes needed in academic and administrative matters and formulate and monitor the action plan.

- Regular Staff Council meetings are convened by the Principal to discuss important academic initiatives and to formulate Programme for action.

- Principal reports and discusses major policy decisions; needs and matters regarding the College in the Inter Church Fellowship meetings conducted every week.

- Regular Department meetings are conducted for the effective implementation of the academic Programme. Heads of the Departments submit periodical report of the various activities and needs of the department to the Principal. The reports are evaluated by the Principal and communicated to the Management for further actions. Department level faculty meetings are conducted to frame and monitor the Departmental level initiatives. Faculty in charge of department association submit periodic reports of their activities to the Head of the Department.

- An effective mechanism of communication through public address system functions to notify the students and staff of the major events in the College.These matters are published on the notice board. Student feed back is taken systematically on every academic activity.

6.1.5. Give details of the academic leadership provided to the faculty by the top management?

The Deans system constituted of teachers serving as academic, administrative, and student affairsbeing involved in planning, implementing and monitoring various activities of the Collegebridges gaps, if any, between the top management and the faculty. Almost all the major administrative matters relating to the academic and disciplinary matters are solely dealt by the Principal with the involvement and authority of the Staff Council, which is the statutory body envisaged in the University Act. Appointments, promotions, financial planning, budgeting, and such other management

related decisions are taken by GB and the Standing Council (SC), only on the basis of recommendations from the ICF, Departmental Committees, and other sub-committees for the purpose. Regular academic retreats and orientation for teachers together with the top management are conducted and action plans for various academic Programmes are formulated. Regular staff association meetings are convened to discuss academic matters. Perodic review meetings are conducted at various levels to evaluate the academic performance of the students.

6.1.6. How does the College groom leadership at various levels?

- The fellowship system of management and the committee system for all academic, co-curricular and extra-curricular activities provide rich opportunities to groom leadership at various levels.

- **Principal,** who is the Head of the institution, is selected from among the faculty through a very democratic and transparent procedure of appointing a nomination committee by the Association/Standing Council of the College. Usually a person who has previous experience in serving the College at various levels like Bursar, in- charge of Works committee and member of Governing Body, Standing Council, ICF, Staff council, etc. is chosen as the Principal of the College. He will serve in that post for a period of five years or till his retirement, whichever is earlier. The College, using the Fellowship of the UBCHEA, sends its faculty in positions of responsibility to US and Asian academic institutions to learn their best practices as part of its leadership training.

- **Administrative, Academic and Students' Deans:** The Deans are appointed from among the faculty providing them an opportunity to excel in their administrative skills and also learn from working in those capacities. Their inputs in terms of administrative and academic actions are seriously taken into account in decision making by top level functionaries.

- **Bursar** of the College is appointed from among the faculty and undertakes the responsibility of overseeing financial matters and he or she takes on this additional duty along with teaching.

A teaching Faculty serves as **Superintendents of works** to coordinate all the construction, renovation and maintenance works of the College.

Faculty serves as **Staff Council Secretary, Staff Association Secretary, ICF Secretary, IQAC Coordinator, Coordinators and Conveners of various committees** and clubs etc., thus getting trained in leadership.

Head of the Departments co-ordinate all the activities at the Department level. The rotation system of Heads for a period of 3 years gives opportunity for almost all the faculty to be involved in overseeing the activities of the Department and serve in suchstatutory bodes as Staff Council. This further helps in preventing power getting entrenched in certain individual and provides equal opportunities to all. This also helps in developing democratic and serving style of leadership, which is a very distinctive mark of the

College.

6.1.7. How does the College delegate authority and provide operational autonomy to the Departments / units of the institution and work towards decentralized governance system?

A decentralized governance system is followed in the College. Each Department is given the freedom for planning and implementing activities of the Department within the policy framework of the College.

The Departments form their own Associations with the Head of the Department, Faculty in charge of the Association and the Student Secretary of the Association forming a team to coordinate all the Association activities. All the Department level activities are planned by the Association and implemented after notifying the Principal. The rotation of the HOD every three years prevents entrenchment of authority in the hands a few and facilitates democratic administrative procedures. The HODcoordinates and monitors the faculty with empathetic understanding and also takes decisions in consultation with them in thefaculty Meetings, He or Sheassumes a democratic leadership taking the whole faculty into confidence while allocating responsibilities. A conducive atmosphere is always maintained in the Department for the faculty members to pursue their ideas for the betterment of the Department, to attend quality improvement Programme, Seminars, Workshops and Conferences and to implement innovative methods of teaching.

Necessary infrastructure facilities like Seminar hall, Library, Computer facilities, Laboratories and Smart classrooms are managed by the Departments themselves. NSS, NCC, Placement Cell, Counselling Centre and various clubs also function with operational autonomy.

6.1.8. Does the College promote a culture of participative management? If 'yes', indicate the levels of participative management.

U.C College functions through a fellowship system of administration,where the posting to management leadership positions like that of **Principal, Bursar, Deans, co-ordinators of various, clubs and committees** are done from among the faculty through a democratic and transparent procedure. All the academic and disciplinary matters associated with the daily administration of the College are wholly left to the Principal to handle in consultation with the Staff Council constituted of Heads of Departments and two elected representatives of the staff. The ICF consisting of teaching faculty belonging to the four different congregations takes active participation in the day to day governance of the College.Almost half of the faculty are members of the ICF.

Teaching faculty who are members of ICF have representation in top level management such as Governing Body, Standing Council and the College Association, thus having direct involvement in administrative matters. Of the total membership of 9 in the GB, four are from the present members of the teaching faculty who are members of the ICF. Almost all the activities of the

College are executed through committee systems constituted by faculty members. Thus, the institutionensures the participation of the entire faculty of the College.

6.2. Strategy Development and Deployment

6.2.1. Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

Yes. The College has made known its vision in the vision document –Vision 2020 published in 2008. The document emphasized academic goals, social goals and character building along with re-establishing the relevance of the core values of the institution in the changing scenario of higher education. The areas identified for quality improvement are teaching, research and community extension.

- The IQAC coordinates the teaching- learning aspects of the College. Union Christian College gives special emphasis for the holistic development of students. Various clubs, associations and other formal and informal groups encourage creativity and critical thinking among students. The selection of faculty is based on merit, and the College strictly follows all reservation policies of the state and central Governments in staff and student selection. A sizeable proportion of the faculty is involved in curriculum development of the parent university and other universities. There is an active interest among teachers in updating technologyenabled learning.In house and expert training sessions for teachers are conducted regularly. MoUs are signed with 5 foreign institutions for scholar exchanges and leadership training programmes.

- A committee for research was formed; new research centers have been established and the number of research scholars, national and internationalresearch projects and the quality of UG/PG level projects as reflected in publications and seminar presentations have made substantial qualitative advancements.

- The College is committed to develop social responsibility and sensitivity among teachers and students. The College abhors all kinds of discrimination and caters to large proportion of women students and students from Scheduled castes and Scheduled tribes. The College has a very active NSS, NCC and Pain and Palliative Care Unit. The Service Learning Center of the College in addition to projects by faculty and various Departments have initiated many community extension activities focusing on the under privileged in our society, sections of the population below poverty line, people with disability, tribal population and Government schools, etc.

6.2.2. Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

Vision 2020 has specified short term and long term goals for the College.

- Improve interdisciplinary interactions within the College by encouraging interdisciplinary research, starting of interdisciplinary courses and human resource development Programmes.
- Organize various community extensionprogrammes to a single platform: The College plans to adopt the nearby settlement for Dalits as the major recipient of community extension Programme by the various Departments of the College.
- Mobilize financial resources to help in the infrastructure development of the College by exploring and channelizing various financial sources like the Alumni, aids offered by national and international agencies in terms of projects, etc.
- Improve international linkages and exchange Programme for students and faculty.

6.2.3. Describe the internal organizational structure and decision making processes.

The organizational structure is as follows:

Academic: Staff Council-a statutory advisory body to the Principal in all academic and disciplinary aspects.It consist of the Principal(ex-officio),Heads of all Departmentsand two elected teaching staff representatives.

Staff Association: Consist of all the faculty members and the Principal (ex-officio).The Secretary is elected from the faculty from time to time.

Administration:

Internal Management Committee-
Consist of theManager (Chairperson),Principal (Secretary), Bursar andtwo elected members from the Governing Board.

Governing Board/Board of Directors/Executive Committee
Consist ofthe Manager (Chairperson),thePrincipal (Secretary), the Bursar andsix elected members from the standing Council (Two members from ICF and one members representing each of the four constituent Churches of the College).

Standing Council

Consists of four members representing each of the four constituent Churches of the College, eight ICF members, the Manager, the Principal and the Bursar (ex-officio).It is the supreme body of administration of the College.

Union Christian College Association

It is the parent administrative body in which constitutional amendments are made. The decision taken in this body are executed through the Standing Council.

6.2.4. Give a broad description of the quality improvement strategies of the institution for each of the following.

Teaching & Learning:

The College has a systematic process for internal evaluation, tutorial and remedial coaching and open house, Associations of departments, faculty feedbacks, coaching for UGC/NET and civil services examinations etc, .The College ensures academic dynamism through ICT enabled class rooms, well equipped laboratories, College library and reading rooms with access to international books and journals so as to enhance the teaching learning practices. Refresher and orientation courses, interaction with experts, seminars and invited lectures are regularly organized.

Research & Development:

The College facilitates scientific temper which is reflected in the number of research/projects has undertakenby the faculty with financial assistance from the National and state level funding bodies like UGC, FIST, BRNS, KSST and international organizations like UBCHEA.There are 9 research centres in the College with 110 research scholars guided by 12 faculty of the Collegeand 15 faculty members from different institutions. Graduate and undergraduate students undertake at least one research project during their course and many have presented their work in national seminars andpublished in journals of repute.

Community engagement:

Departments and faculty organize community extension Programmeusing the help of N.S.S,N.C.C,Service Learning Center, Pain and Palliative Care Unit. Their activities include surveys to analyse the need for assistance, awareness and motivational classes for women and children of settlements for tribal population and below poverty line sections, training in good learning practices and counselling for children from government schools, technical and resource support for special schools, blind school and geriatric centers and so on. Based on such experiences, teachers of the Collegecould contribute in curriculum modifications and syllabus revisions.

Human resource management:

Students and faculty participate in seminars and training Programme at national and international level and invited lectures are organized by the differentDepartments of the College every year. Programme like ASAP, Walk with a Scholar, skill training Programme to improve computer proficiency,

analysis of research data, moral and ethical practices in personal and professional life,etc.are conducted regularly. Through various projects and programme aided by UGC, UBCHEA, Ford pathways, CSRS, etc. experiential learning opportunities are created.

Industry interaction:

Various Departments provide facilities of internships and many organizations absorb our students on completion of their programme. Experts, especially distinguished alumnus of the College, interact with and guide students to be fit for industry demands and improve employability potential. Students also work with alumni who associate with projects of various Governmental and Non-Governmental organizations. .

6.2.5. How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

The**Department Staff Meeting** offers a forum for the faculty to reflect on the tutorial meetings, assistance to be offered for weaker students, plan the activities of the department, etc. The HODS'keep the Staff Council informed of major matters. Annual reports of the tutorial meetings, work of major clubs, etc. are submitted to the Principal.

The **College Staff Meeting,** held atleast once every month, also provides a platform for exchange of ideas and feedback so that informed decisions is made by the Principal and the top Management.

The weekly **Staff Council Meetings** assist the Principal and heads of the Departments in keeping up to date with the activities of various Departments and major incidents in the campus.

Weekly meeting of the **Inter Church Fellowship (ICF)**the Principal, who is the Chairman of the I.C. F. would share the policy and other administrative decisions of the management then receive feedback before they are finally implemented.

The **Governing Body** meets every month where the members, including the Manager, are informed of the activities in the College. In such meetings of the GB, the first item in the agenda will be "Principals Report" which keeps the Body updated on all the major events in the College. The Manager submits annual report to the Collegestanding Council. The **Internal Management Committee (IMC)**meets in between GBmeetings.

The **CollegeStanding Council** meets twice a year or as often as necessary and combined meetings of the Standing Council and ICF is held to discuss crucial issues as often as needed. Through these meetings and the reports by the

Principal and Manager the management bodies are briefed about the activities of the whole College.

The Principal of Union Christian College is selected from the faculty of the College itself, and resides within the College campus. He/She is accessible to all students, faculty, management and other stakeholders of the College.

PTA and Alumni Association are active and meetings are held frequently to collect their feed backs and suggestions.

6.2.6.How does the management encourage and report the involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

The College Staff Council, consisting of the Principal, the Heads of Departments, the Librarian and two elected members of teaching faculty acts as a statutory advisory body to the Head of the Institution, to make decisions on all academic matters. It takes final decisions on matters of immediate concern.

The Staff Association, consisting of all the teachers of the College, is informed about all the decisions of the Council.Final decisions and implementation of the decisions are executed through committees constituted by the Staff Association.

The Administrative Dean, Academic Dean and Students' Dean are selected from the teaching staff based on seniority and efficiency from among the faculty.

Members of Inter Church fellowship (ICF) have substantial representation in top management of the College such as the U.C.College Association, Standing Council and the Governing Body. They work as a bridge between the faculty and other governance structures.

Thus, the faculty of the College is an important stakeholder in decision-making, they have a major role in the implementation and the functioning of the Collegeand the College very much depends on their efficiency, commitment to its goals and dedication to the College. The administrative structure and the committee system reveal the democratic and decentralized functioning of Union Christian College.

6.2.6. Enumerate the resolutions made by the Management council in the last year and the status of implementation of such resolutions.

- Create a separate directorate for self- financing courses. It was implemented
- To construct a new campus and infrastructure for self financing courses.

In accordance with the above resolutions a directorate for self financing courses was constituted and efforts are underway to raise finances for the infrastructure.

- Circulated the assurances and commitments of the subcommittee on introducing Autonomy in the College to the staff and students of the College.

  The assurances are listed out in a document which was circulated among the stakeholders.

- Construction of a world class Library with all Electronic learning facilities; the project has been prepared and it is in the final stage of submission to the US Organization, United Board for Christian Higher Education in Asia(UBCHEA), for ASHA Grant (American School and Hospital Aid)

6.2.8 Does the affiliating university make a provision for according the status of Autonomy to an affiliated institution? If yes, what are the efforts made by the institution in obtaining autonomy ?

The College has initiated steps towards autonomy. Since the team of experts could not complete their visit, the conferring of Autonomy remains undecided yet. The College aims to attain the status of an autonomous institution or a Deemed to be University.

6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

The College follows the guidelines provided by the UGC, AICTE, MG University, Kerala State Government, the Higher Education Department of the State and Court directives. Students' Grievance Redressal Cell, Anti- Ragging Cell, Women's Cell, Complaints Committee to deal with sexual harassment etc. besides the CollegeUnion, various student and faculty bodies, Tutorials, Associations of Departments, Staff Association and Staff Council, ensure that grievances or complaints are addressed promptly. The College endorses its democratic tradition by allowing Student and Faculty unions. Parent – Teachers' Association and Old Students' Association help the College, the Administration and the Management, to connect with the public and address the grievances from all constituencies and take remedial action.

The kind of student-teacher relationship unique to this institution, the selection of Principalfrom among the staff, and a very benign presence of the Manager, ensures that even the youngest of the faculty or a new student has access to higher authorities.

6.2.10. During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

Nil.

6.2.11.Does the Institution have a mechanism for analyzing student feedback on institutional performance? If yes, what was the outcome and response of the institution to such an effort?

The teachers hold formal meetings with students twice a month in groups and one on one and personal basis in **tutorial meetings**. Students share their opinions of the teaching- learning process, facilities provided to them, curricular and co-curricular activities, etc,.during these meetings. Feedbacks on teacher performance are collected from students formally and informally. The teacher- in-charge of the tutorial groups submit an annual report to the Principal.

There are **weekly meetings of Department Associations** where students from all courses offered by the Department and faculty come together for one hour and students are given freedom to conduct the meeting and voice their opinions. In addition, there is an executive committee of the association constituting representatives of each batch along with the faculty.

Orientation programmes at the beginning of a course inform the parents of various curricular and extracurricular opportunities available for the students. **Open house programmes** are conducted every semester to keep the parents informed about the progress of their wards and **PTA meetings** help the College to receive suggestions from parents.

The Collegefacilitatesa **vibrant College union**and also Clubs and Associations cater to the varied interests and talents of the students. Faculty in charge of these bodies collects continious feedback. The **College magazine and the manuscript magazines** of the Departments also are sources of feedback.

The **resident wardens and the faculty wardens of College hostels**are also sources of feedback from students regarding the impact of the Collegeon the student's academic, personal and spiritual life.

Every year the College organizes a **farewell meeting** for the outgoing students. Representatives of each course share their experiences in U. C. College, which is an ideal opportunity for the College to reflect on its impact on students. The **Alumni meetings** conducted twice a year and separate **alumni meetings of various Departments**and batches of students offer a feedback mechanism that the College can make use of for its improvement and correction.

The democratic functioning of the College empowers the students and faculty to resolve many concerns at the level of its inception itself. The Staff Association, Staff Council and the ICF reflect on the reports and take necessary preventive and remedial steps.

Based on these reports the College has made several improvements in the facilities provided to the students. The College library system of accessing books have been changed, better and modern facilities for sanitation for girl students are in place, value education classes have been restructured, counselling services and fitness Programme have been initiated and services offered for students with disabilities are being improved. Interactive sessions

with alumni to inspire students to explore new job opportunities are organized and students themselves are given the opportunities to initiate and execute their own programmes of academic nature, service learning activities, clubs for showcasing their literary, artistic and aesthetic talents, etc. to name a few.

6.3. Faculty Empowerment Strategies

6.3.1. What are the efforts made by the institution to enhance the professional development of its teaching and non-teaching staff?

To enhance the professional competency of the teaching and non- teaching staff and to make them capable of facing the challenges of the contemporary situation, the College carries out the following:

- Orientation Programme for the newly appointed faculty to introduce the history, background and the goals of the College
- Methodology workshops with external experts
- Facilitating in-service, refresher programmes
- Skill (IT, Communication, handling ICT, smart boards) development Programme for teachers.
- Academic orientation at the beginning of every year
- Skill development trainings organized for non-teaching staff – Selected members send to external training Programme for for updating their knowledge in their concerned areas of functioning.

6.3.2. What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

- Motivating faculty and provide opportunities for acquiring knowledge on latest pedagogical inputs.
- Organizing empowerment/skill development Programme and workshops on capacity building.
- Faculty members are encouraged to attend orientation Programme conducted by UGC and Academic Staff Colleges within the first three years of joining and to attend refresher courses from time to time.
- The College motivates the faculty members to organize and attend seminars, conferences and workshops
- Faculty members are assigned various responsibilities such as student relations, Cultural and Arts Associations, sports and games, wardenship of hostels, Nature Action club, NCC and NSS, and are encouraged to attend related training events
- Young faculty are encouraged to apply for more research and study projects and work on them earnestly

6.3.3. Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

- To evaluate the performance of the faculty in teaching - learning, research, and extension Programme, the College follows the mechanism of self-appraisal (Copy of the *proforma* is attached as Appendix – 6.1)
- The Principal along with the aAdministrative Dean holds meetings with the administrative staff on a quarterly basis with a view to discuss problems encountered in various aspects in administration and relevant changes are being made in the system after discussion with Heads of Departments, Staff Council and Governing Body.
- Heads of Departments evaluate the performance of the teaching and non-teaching staff working in individual Departments internally and report to the Principal.

6.3.4. What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

The data collected through the Performance Appraisal are processed and evaluated. The performance appraisal report is the basis for promotion. The Management also evaluates the performance of the faculty. The management depends a great deal on the HOD's and the Principal for their appraisal of each faculty. The Principal conveys the evaluation results to the teachers and administrative staff.

Matters that need to be taken up with the faculty as a whole will be placed before the Staff Council and then, the Principal will share his concerns and steps to be taken to facilitate correction at the Staff Association meeting.

On general matters of morale, motivation and policy direction, the Manager will meet the staff and communicate the same to the staff.

6.3.5. What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

- The teaching and non-teaching staffs receive the benefits of the welfare schemes of the government.
- Limited family quarters are available within the campus, which is open to faculty for family accommodation. This is availed on first come first serve basis. Bachelor accommodation is provided to the woman faculty in Women's Hostels; they may also be asked to serve as wardens; they avail this facility at nominal rent.
- The Cooperative society provides various financial welfare schemes (Chitty, Festival time consumer goods sales) for both the teaching and non-teaching staff.

- Non-resident student center (canteen) provides food at subsidized rates.
- The Management provides financial support for the recreational activities ofthe staff. Recreation cubs, Annual Family tour Programme and Annual

Get-together Programmeare organized for both teaching and non-teaching staff.

6.3.6. What are the measures taken by the Institution for attracting and retaining eminent faculty?

- Faculty recruitment is purely merit based and they are respected for the gifts that they bring to the College.
- A very congenial and cordial liberal atmosphere is maintained as part of its heritage
- The faculty is provided with residential facilities inside the campus and also a crèche, Kids Dale, to take care of toddlers and children below the school going age.
- Great deal of academic freedom is provided to teachers; they are encouraged to avail grants and do research in their areas of interest.
- The HODs with theirteachers are trusted to deliver what is expected of them.
- Adequate research facility is available in the College with two FIST labs and ten research centers.
- Encourage and support faculty with doctoratedegree who have ongoing research activities and recent publications, to secure Ph.D guide-ship to extend research activities and to attract research students

- The faculty is encouraged and provided with oversea's exposures whenever possible using the Colleges' international partnerships.

6.4. Financial Management and Resource Mobilisation

6.4.1. Institutional mechanism to monitor effective and efficient use of financial resources.

The efficient use of available financial resources is monitored by the Internal Management Committee, Governing Body and the Standing Council. In addition, there are other sub-committees like UGC Committee, Purchase Committee, and other sub-committees that make proposals and estimates which the Works Department and the Bursar's Office vets for final approval by the GB or IMC. There various stages of checking and verifying the expenditure. The Principal is the Chief Accounting Officer of the College accounts. The Principal and Bursar hold joint responsibility for maintaining Management accounts.

The various committees meet regularly to discuss utilization of financial resources. The grant requests are made as per UGC schemes for the development projects of the institution.

6.4.2. Mechanism for internal and external audit and its details

The College has an effective mechanism for internal and external audit. The external audit for the College accounts are carried out by the Office of the Accountant General and the Directorate of Collegiate Education. The Management accounts are audited internally every year by an External Chartered Accountant. The comments of the auditors are discussed in the General Body and necessary corrective measures are taken.

The last Government audit, in the institution by the Accountant General's officewas carried out from 29.9.2015 to 5.10.2015 for the period 2010-2015. Audit queries raised were satisfactorily answered. The audit by the Directorate of Collegiate Education was conducted for the period from 1.4.2013 to 30.4.2015.

6.4.3. Audited Income and Expenditure statement of academic and administrativeactivities of the previous four years.

The major sources of institutional receipts/funding is grant-in-aid provided by the government. Deficits, if any, are always met by the Management. The Management has been maintaining a reserve fund to meet contingencies.

The major sources of finance of the College comes through

- Assistance from the Government of Kerala (grant-in-aid for salary of teaching and non-teaching staff)
- UGC is one of the major sources of funding for developmental activities and academic Programme. Teachers receive Major and Minor Research Project Grants for research purposes.UGC Seminar Grants are utilized to organise academic Programmes
- The College also receives financial support from DST, KSCSTE, KSHEC for research laboratory projects and academic Programmes.
- Scholarship for Students is availed from UGC, and the Government of Kerala
- Income from Self financing Courses
- Income from the Auditorium which is rented out to the public
- Contribution from the Inter-church Fellowship(ICF)
- Student Amenity Fund maintained for developmental purposes
- Contributions of PTA, Alumni and Friends
- Management contribution for the construction of buildings, maintenance and infrastructural development of the College

Table 6.1: Sources of Revenue to the College

Sources of Revenue to the College					
	2011-12	2012-13	2013-14	2014-15	2015-16
MRP	5178989	890040	835500	652000	2385500
UGC	358500	3782885	4292330	11925172	4532530
NBHM Grant (Atomic Energy)	259800				
FIST	3700000				
KSCSTE Project	1310568		1134098		559780
DST		2500000	1100000	300000	795000
SPORTS		250000		2250000	
Coaching-NET/SET/Remedial		317000	187500		
ASAP			250000		
KSHEC			50000	25000	
IQAC				300000	
SERB				629800	88841
CSIR-JRF				136359	
BRNS				1415025	
Career Oriented -Comp Science dept.				900000	
Self Finance Courses	14457058	16096918	18299067	2684498	36093000
PTA	512060	521980	629100	718155	631028
Other Funds (UCCANA, UBCHCA, Scranton)	918946	877820	1860705	2295215	1137758
TOTAL	26695921	25236643	28638300	24231224	46223437

6.4.4.Efforts of the Institution to Secure and Utilize Additional Funding

During the past decade, the College has been striving for self sufficiency through additional resource mobilization from supporting agencies like Alumni, Well-wishers and the PTA. The additional funding is mobilized through

- Individual initiative of Faculty in fund raising
- International funding/ linkages/UBCHEA
- Travel Grants
- Ford pathways
- Scholarships /Scranton Scholarship, Kano Yamamoto Scholarship
- From well-wishers/Alumni

Internal Quality Assurance System (IQAS)

6.5.1. Internal Quality Assurance Cell (IQAC)

a. Has the institution established an Internal Quality Assurance Cell (IQAC)? If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

Yes. Union Christian College had formed an Internal Quality Assurance Cell (IQAC) in 2005 and it has been in action since then. Every year IQAC has been renewed and regular meetings were conducted to outline the measures to be taken to assure quality. Founded on Christian values and with commitment to secular ideals, the founding fathers set the academic goals and ethical standards of the College- "To be a centre of light and life and a blessing to many, to enable teachers and students to grow in true love of knowledge which makes all study a discovery and a joy, leading them to intellectual maturity and commitment to truth, to foster in students the spirit of wonder and inquiry and the yearning to be made whole." The Union Christian College aims for wholesome education of the young to bring out the best in each individual. It strives to produce intellectually competent, morally upright and spiritually inspired, patriotic men and women who will serve the country with dedication and fervor. The IQAC has been instrumental in fulfilling this mission by setting and implementing realistic quality objectives, reviewing and revising these as and when required. Some proposals are mentioned below

- Each Department should conduct national and international seminars so that the students get an opportunity to interact with experts across the world which may inspire them and provide them avenues for higher studies.
- Enhance various club activities to acquire leadership skills and learn beyond their field of study
- Introduction of smart class rooms and Wi-Fi facility which provides an opportunity to access across the world and learn through visual modality
- Centralized attendance entry which enables strict monitoring of attendance.

- Each Department should have community extension programmes which enhances experiential learning and social responsibility
- Monthly academic review in each Department
- Regular collection of feedbacks from all its stakeholders so that necessary correction can be made
- Mentoring, Remedial coaching and Peer tutoring to help scholastically weaker students without hurting their sentiments and dignity and to facilitate greater student-teacher relationship.
- Active functioning of a Counseling Centre (BLISS) transcending narrow focus on individual counseling and aiming at providing life skills training
- Strengthen the Career guidance and placement cell activities
- Efficient Web site management
- Provide open access to books in the library for all students
- Strengthen library facilities
- Encourage teachers to get actively involved in research activities
- Seminars, workshops and training programmes for teachers to improve their efficiency
- Orientation programme for students
- Establish tie up with various institutions and industries in India as well as abroad.
- Facilitate student exchange and teacher exchange programme

b. How many decisions of the IQAC have been approved by the management/ authorities for implementation and how many of them were actually implemented?

All decisions of the IQAC have been approved by the management and nine of them were implemented. These nine decisions are mentioned below

- Centralized attendance entry
- Encourage teachers to get actively involved in research activities
- Seminars, workshops and training programmes for teacher's to improve their efficiency
- Orientation programmes for students
- Provide open access to books in the library for all students
- Enhance various club activities to acquire leadership skills and learn beyond their field of study
- Mentoring, Remedial coaching and Peer tutoring in order to help scholastically weaker students and to strengthen healthy bond between teachers and students
- Monthly academic review in each Department
- Regular collection of feed backs from all its stakeholders so that necessary correction can be made

The rest of the decisions are partially implemented details of which are discussed below. Five Departments have conducted national or regional seminars. Wi Fi facility is available in all the Departments and in some parts of the campus and there is at least one smart class room in all Departments. Three Departments have community extension programmes. Counselling centre has become active and former Heads of Psychology Department are available as counselors one day in a

week. On other days, present teachers and research scholars of Psychology Department provide counseling for needy students. Four sessions of skills training programmes for post graduate students were also conducted. Career Guidance and Placement Cell have enhanced its functioning by providing information regarding many career options, guidance in preparing for tests and interviews, preparation of CV, lectures by people successful in certain occupations, offering more campus selection and placement opportunities, providing options in higher studies and encouraging post-graduate students to register with the PSC. A website committee was formed for efficient website management and each teacher has been provided with a web page which they can upload and update with their details and revise it as and when required. Attempts have been made to upload all interesting activities at the earliest. Renovation of library has been given top priority and initiatives have already been taken to solicit funds from ASHA/USAID with the active mediation of the US basis Organization, UBCHEA. The College and each of its Departments have been making earnest efforts to establish tie up with various institutions in India and abroad. Two of our students spend one semester in International Christian University (ICU), Japan and three students from the I.C.U.make exchange visit for a month every year. In the last five years eight teachers from U. C.College attended training programme in overseas foreign institutions .

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

Yes. The IQAC has two external members

1. Dr. K. K. George, Former Director, School of Management Studies, Cochin University of Science and Technology
2. Mr. George Thomas, Former Vice President, Binani Zink

d. How do students and alumni contribute to the effective functioning of the IQAC?

Feed backs are collected from students and alumni periodically about various aspects of the College. Apart from these, class representatives of outgoing batches are given opportunity to give their feedback and suggestions in an open forum where the Manager, Principal and almost all teachers are present. Alumni and Parents give valuable suggestions to enhance better functioning of the College through the Alumni Association and PTA respectively. These comments and discussions are followed through for necessary action. Alumni extent financial aid to improve infrastructure facilities and student welfare. Distinguished alumni conduct training programmes and give special lectured in their respective fields of specialization; they are also helpful in connecting the College and the Departments with institutions and research bodies within India and outside. They also attempt to bring experts from various fields to the College.

e. How does the IQAC communicate and engage staff from different constituents of the institution?

The IQAC has representatives from all teaching Departments, administrativewing, students and alumni. This facilitates easy communication with these constituents. All the important information is mailed to the Heads and representatives and their feedbacks are collected. The IQAC is constantly in touch with the staff council. Major decisions are announced in the Staff Meeting.

6.5.2. Does the institution have an integrated framework for quality assurance of the academic and administrative activities? If 'yes', give details on its operationalisation.

Yes, the College has an integrated framework for quality assurance of the academic and administrative activities. The College functions with committee system; it is a decentralized system of governance in which responsibilities are assigned to various committees. These committees develop action plans and work out cost estimates obtains approval, implements and report the outcome of its actions. The coordinators of the committees keep the Principal and Manager informed of important decisions. GB will decide on financial recommendations by the committee. Wherever action is required by other members of the staff,that is taken through the Staff Council. Academic, Administrative and Students' Deans involve in and contribute to the working of committees that come under the area of concern. Academic activities are set at the beginning of an academic year and efforts are made to follow the calendar strictly. Periodic meetings of Governing Body, Standing Council, Staff Council, Inter Church Fellowship (ICF), Staff Association, and Departmental Staff meetings facilitate the committee system and mutually influence the smooth working of the College.

6.5.3.Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If 'yes', give details enumerating its impact.

Yes. The institution provides training to its staff for effective implementation of the Quality assurance procedures. There were training programmes conducted on CBCSS, strategic planning, teaching learning process, etc. These programmes have helped the teachers to shape their teaching practices and interaction with students and to gain new insights in tackling their personal and professional issues effectively. These training programmes also help the faculty to update their knowledge and be innovative and interdisciplinary in their research. Some of the training events are given below:

- Mr. Johny Jospeh, Management Consultant, "Institutional Goal setting and Strategic Planning" three lectures from December to February, 2015.
- Dr. Joe Jesudurai, Dean of Sciences, Loyolla College, Chennai – Autonomy and teachers(18/02/2015)
- Sri. T. P. Sreenivasan, The Head, The Council of Higher Education of the state of Kerala – Higher education in Kerala

- Dr. Jeyakar Chellaraj, Former Principal, Bishop Heber College, Tiruchirappallli - Value Education– Innovative Teaching Methods(10/09/2015)
- Dr. R. Mahalakshmi, Associate Professor, Centre for Historical Studies, JNU, New Delhi – Relativity in research(30/09/2015)
- Mr. Johny. K. Joseph, HRD consultant – Strategic Planning(16 - 20/11/2015
- Dr. Latha Pillai, Director, Rajiv Gandhi National Institute of Youth Development – Teaching, Learning and Research: Exploring Creative Engagement(08/01/2016)
- Prof. M. K. Sanu, Retired Professor, Maharajas College& Dr. K. N. Ganesh, Former Head, Department of History, Calicult University – Orientation for teachers (09/06/16)
- Rev. Dr. Varghese Puthussery, Director, Santhwana Counselling Centre, Kochi – Achieving excellence in teaching with special focus on student mentoring

Training was provided to administrative staff in technical skill(Tally) which has improved their efficiency in handling office activities

6.5.4. Does the institution undertake Academic Audit or other external review of the academic provisions? If 'yes', how are the outcomes used to improve the institutional activities?

Yes. Monthly academic reviews are conducted in each Department. Academic audit is conducted annually for the whole College. It examines the number of working days, pass percentage in internal and University exams, percentage of attendance of students and teachers, percentage of students with shortage of attendance, percentage of students who received merit scholarships, percentage of students who pursue higher education and percentage of students who got placement. These reviews have helped to identify the short comings and take necessary corrective action.

6.5.5. How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

The internal quality assurance mechanisms examine the requirements of the relevant external quality assurance agencies or regulatory authorities in depth and try to move accordingly. There is always an effort to keep up with the NAAC requirements in all its seven areas. The College also attempts to perform the best as per the university guidelines on quality. There are attempts to equip students to meet the current demands and challenges.

6.5.6. What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome.

- Academic audit give an overall view of the teaching learning process. Feedbacks are collected from students about every teacher who teaches them.
- Internal assessment result and percentage of attendance for each teacher's subject and class are also considered.
- Common PTA meetings as well as individual open houses are conducted after each semester.
- Review of each student's performance in comparison with his/her previous performances were also done.
- Confidential evaluation of teachers by respective Heads is also taken into consideration.
- Mentoring, remedial education and peer tutoring have become more systematic
- These evaluations have helped to improve attendance, punctuality and performance of students and teachers. It enhanced the incorporation of various teaching aids and pedagogies..

6.5.7. How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

- The institution communicates its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders through news letter, media, displaying notices in the notice boards of students, teachers, and non-teaching staff.
- Standing Council, Staff Council, PTA meetings and Alumni meetings also play significant role in the feedback loop.
- Elected members of students' union and leaders of approved student organizations will be informed about decisions relevant to them.
- There is also an announcement system to reach out to all students simultaneously.

Criterion – VII
Innovations and Best Practices

7.1. Environment Consciousness

7.1.1. Does the Institution conduct a Green Audit of its campus and facilities?

Yes, the institution conducted a green audit of its campus facilities. The report is readily available for perusal.

7.1.2. What are the initiatives taken by the Institution to make the campus eco-friendly?

- Our campus is preserved, and remains as a lush green campus with its pristine beauty
- While the college, through its nature action club has been planting trees, it strictly follows certain norms to protect existing trees, and thus maintaining the greenery in the campus and the natural vegetation; trees are cut not for commercial purposes but only when they pose danger to people and buildings in their vicinity. Again, the College strictly follows the norm that minimum number of trees is destroyed and the natural environment is kept as it is, when new buildings are constructed in the campus.
- The infra-structure development strictly adheres to environmental compliance such as minimum damage to natural vegetation, energy saving by facilitating natural air flow and also using of solar energy for the energy needs of the building.
- We have a bio-gas plant to recycle the bio-degradable waste of the College Canteen and the gas generated from the plant has been used for cooking in the Canteen.
- Labeled waste-bins are installed for plastic, non-degradable wastes, and bio- degradable wastes.
- The college has taken up several steps to make the campus plastic free and eco- friendly.
- On every June 5, 'Environmental Day' is observed with the planting of saplings, organizing various competitions such as nature related quiz, poster designing, essay writing.
- Incinerators are provided in the college and hostel for eco-friendly disposal of sanitary napkins**.**
- Display boards bearing messages on the importance of keeping the campus eco- friendly are placed inside thecampus.

Energy Conservation:

- Energy saving attitude has been inculcated in the students and staff through awareness programmes, discussions, and environment related campaigns and exhibitions.
- Energy wastage is prevented by encouraging students and staff to switch off fans, lights and other electrical appliances when they are not needed.
- The wasting of electricity in the hostels is prevented by switching off the main connection for lights during college hours when the students are not expected to be in their rooms. (Fans are not switchedoff)

- Uninterrupted power supply is maintained through three generators installed in the college campus and in the hostel. To avoid damage of instruments through voltage fluctuation, stabilizers and UPSs areused.
- Stickers and Boards are displayed in every class room reminding students to switch off electrical appliances after use to conserveenergy.
- Inspection and maintenance of pipes are done on regular basis to prevent wastage ofwater.

Renewable Energy:

- The Institution is moving towards the use of solar energy an alternative energy resource to minimize electricityconsumption.

Water Harvesting:

- Rain water harvesting unit with a capacity of approximately 100000 litres was set up in 2008. The rain water thus collected is used in the auditorium and in the botanical garden.

Efforts for Carbon Neutrality:

- Utmost care is taken to restrict vehicle entry into the campus during working hours.
- Effort is made to make the campus plasticfree.
- Students of some departments have created an E-mail account for their group to facilitate peerlearning..
- All the paper and other combustible wastes are properly disposed without producing any carbonemission.
- Messages from the Principal are given via e-mail and SMS to reduce the use of papers.

Plantation:

- The institution shows avid interest in nurturing a green campus. The students learn to love nature, co-operate in team work, gain a sense of responsibility to care the nature.
- Dignitaries coming to the college are requested to plant saplings to commemorate theirvisit.
- The Botanical Garden maintained by the Department of Botany comprises rare plant species, green house and a waterpond.
- The approach path to all buildings is beautifully lined withtrees.
- The Institution shows keen interest in instilling eco-awareness in the students by celebrating Environment Day with the planting of trees, organizing various competitions such as nature quiz, poster making, essay writing,etc
- One of the healthy practices of the Institution is the 'Green Campus.
- Thecollegeparticipatesactivelyinthe *HarithaKeralam*project of the Government of Kerala.
- The college has a Nature Club the objective of which is to create environmental awareness in the students and to instill in them love and respect fornature.

Hazardous Waste Management:

- Strict monitoring of waste disposal is made with respect to the waste from the laboratory. The waste from the Chemistry Lab is disposed off scientifically. All the chemical wastes generated in the lab are identified and categorized into different groups. They are then collected in separate receptacles. Acid/alkali waste are released into the environment only after making it environment friendly by dilution with plenty of water and neutralization using very dilutealkali/acid.
- Neutralization can be monitored by pH meter/litmus papers. Chemicals having hazardous and toxic effects are identified and micro scale experiments are designed to avoid or to minimize the use of such hazardous chemicals and toxic metal ions. Organic solvents such as petroleum, ether, ethyl acetate and methanol etc. are recovered by distillation and reused for furtherextraction.
- Paper waste generated in the lab is separated into recyclable and non- recyclable. The recyclable waste is sent to the local traders and the non-recyclable is disposedoff.
- The used plastic containers are also sold to local traders. Glass waste generated in the lab is collected separately. Separate receptacles are kept for soda glass waste and Pyrex glass waste which are sold to local traders/manufacturing units forrecycling.
- Storage of strong acids (corrosive and hazardous) is done in a separate room. Other corrosive chemicals, inflammable solids, liquids and organic solvents are also storedseparately.
- The chemical waste is identified and categorized into different classes/groups and the information is exhibited on a chart in thelab.
- Students are made aware of the disposal of different categories of waste generated in the lab. They are given clear instructions to dispose the broken glass waste and chemical waste in the respective wastereceptacles.

E-wasteManagement:

- Green computing is encouraged in the followingways:
- Switching off CPU and all peripherals such as printers, modems, routers and projectors during extended periods of inactivity to enhance the life of the devices; use of LCD instead of CRTmonitors.
- Use of refill inkjet cartridges and laser toners; use of devices with automatic switch off when it is idle(Project in final shape); purchase of less toxic and recyclable materials and components.The hardware resources are utilized to the optimumextent.
- Systems with longer guarantee period are selected. Some of the older systems that are in working condition are given to students of outside school children.
- We are associating with 'Clean Kerala Company' (Kerala Suchithwa Mission) for e-waste disposal.

7.2. Innovations introduced during the last four years which have created a positive impact on the functioning of the institution. Give details.

In accordance with the vision-plan of IQAC, the college embarked on a holistic approach to further insights gained from the inputs vis-a-vis Teacher-self Appraisals, Student Assessments and also the general Orientation Programmes conducted both at the UG and PG levels. More specifically, the framework laid

down in the Orientation Programme was followed up by a consistent Weekly Tutorial session where teachers met each and every student in their departments and individual records were maintained subsequently. Further, the data collated through the tutorials have been utilised to develop an Incremental Student Academic Growth System, which has made it possible to provide student-centric additional attention for both the brilliant and the wanting segments of the student constituency. There are enhanced and rigorous Peer-learning mechanism is in place. An embedded internalisation of socially relevant Best Practices is being promoted by updating and streamlining the Value Education apparatus and also the Service Learning framework that are already in place.

7.3. Give two Best Practices of the institution.

1. The *Bhoomi Malayalam* series, a venture of the Department of Malayalam, which has been since 2007. This initiative stands in the league of knowledge generation, consolidation and archiving. Thematically designed seminars are organised annually, and the best academic minds and emergent scholars are brought together. And the collated book which is disseminated on a national level stands on par with similar initiatives from universities. The interdisciplinary aspect of this venture was at its zenith in the last seminar titled 'Keywords' - pertaining to Cultural Studies and Critical Social Theory with scholars coming in from disciplines like Hisotry, anthropology, political science, Literarture and Gender studies. The book is to be released in January 2017.

2. Quality life through Physical Fitness: Assessment and Empowerment of U. C. College Community through service learning.

Kerala as a society has shied away from physical activity, irrespective of its good climate and water sources. Most of the road junctions in Kerala had two or three cycle shops in the 80's are now replaced by bakeries and motorcycle workshops. So the third shop automatically to open in the vicinity will be a medical store. The advent of Television in 1983 has worsened the scene by taking away the leisure time activity.

The project aims at assessment of Health related Physical fitness of UG students through selected test battery resulting in the creation of a health data profile of the U.C. College students and by providing an exercise module suitable to improve the health status of students. The project proposes a health assessment programme to its community for giving an early awareness to threats of NCDs which is the alarming issue of the health of the Kerala youth.

1. Title of the Practice: *Bhoomi Malayalam*

Goal

In recent times, the idea of the text has expanded from the merely literary to all forms of cultural production. Hence the conceptual and formal aspects of culture need to be studied in order to grasp local, national and global social complexities.

The following are the goals of the programme:

- To provide a space for literary and cultural interactions

- To understand key approaches to the study of literature and culture and their application to understanding social and cultural change
- To appreciate the diversity of ways literary and cultural production, consumption, and meaning shape everyday life
- To be able to identify and describe key theorists, theories, and subject areas in the field of cultural studies
- To disseminate the knowledge generated through this venture by publishing the results/deliberations.

The Context

Literary Theory and Cultural studies are many-splendored areas, without easy definitions. But they certainly have their respective histories and animating currents. They also have a sophisticated tryst with disciplines like Psychology, Sociology, Philosophy and History, evidencing an interdisciplinary ethos. A wide range of subject positions and social and cultural problematics have emerged as a result of this confluence. It is in this context that initiatives like Bhoomi Malayalam become relevant

The Practice

Bhoomi Malayalam is a venture of the Department of Malayalam since 2007. Knowledge generation, consolidation and archiving have been the consistent practice of this programme. Thematically designed seminars are organised at national level annually bringing together academicians and scholars. Various textual practices arising from different cultural and social contexts are examined with new hermeneutic tools. Current trends and discussions in cultural and literary studies are problematized exploring areas like politics, subalternity, sexuality, gender, feminism, ethnicity, violence, and multiculturalism, among others. The proceedings from the seminar are published as journal every year.

Evidence of Success

The participants every year develop a clear grasp of the concepts of literary and cultural studies. They gather the cultural dynamics of society with the help of contemporary theory using analytical tools to study diverse literary and cultural practices.It provides an exposure to various forms of cultural expression, and a hands on experience of the same through programmes like *Gaddika* - a cultural fest organised in association with the national seminar. Proper documentation, archiving, curating of cultures and literary/theoretical output is done.

Problems Encountered and Resources Required

The problems encountered are limited to logistics.

1	**Name of the Principal**	**Dr. P.Thomas Mathew**
2	Name of the Institution	Union Christian College
3	City	Aluva,Ernakulam
4	Pin Code	683102
5	Accredited Status	A
6	Work Phone	04842609194
7	Website	www.uccollege.edu.in

8	Mobile	9496335523
9	Fax	04842607534
10	E-mail	ucc@uccollege.edu.in

2. Title of the Practice: Quality life through Physical Fitness: Assessment and Empowerment of U. C. College Community through service learning

Goal

The young people in the age group of 10-24 year in India constitute one of the precious resources of India characterized by growth and development and is also a phase of vulnerability often influenced by several intrinsic and extrinsic factors that affect their health and safety.

Kerala as a society has shied away from physical activity, irrespective of its good climate and water sources. Most of the road junctions in Kerala had two or three cycle shops in the 80's are now replaced by bakeries and motorcycle workshops. So the third shop automatically to open in the vicinity will be a medical store. The advent of Television in 1983 has worsened the scene by taking away the leisure time activity.

The project aims at assessment of Health related Physical fitness of UG students through selected test battery resulting in the creation of a health data profile of the U.C. College students and by providing an exercise module suitable to improve the health status of students. The project proposes a health assessment programme to its community for giving an early awareness to threats of NCDs which is the alarming issue of the health of the Kerala youth.

The main objectives of the proposed project are:

- To create a health data profile of the U. C. College students.
- To create an exercise module suited to the student's health status.

The context

The health assessment studies in Kerala show a frightening trend as the capital of diabetic and lifestyle diseases. Age adjusted cardiovascular mortality in Kerala is twice that of an American and thrice that of Japanese. With a semirural background, 49 % of the students of U C College are from low socioeconomic status.

The Practice

Activities:

Assessment of health related Physical fitness.

The parameters such as assessed are Height and Weight, Body fat percentageCardio Respiratory Endurance, Abdominal Muscular Strength and endurance,Flexibility,Blood Pressure (BP),Haemoglobin (Hb),Blood cholesterol,Blood Sugar and Health survey - Questionnaire method.

Health Awareness programme

1. Seminars and workshops -

Life style diseases and First aid classes based on Health and life style, various exercise programmes.

2. Empowering the youth through variety physical activity classes

a. Yoga
b. Aerobics
c. Brisk walking
d. Cycling
e. Karate
f. Judo

Evidence of success

The data collected through the assessment indicated that 40% of the students have lack of Health related Physical fitness according to the standard norms. Through the training programmes offered by the Department of Physical Education ,the Health related Physical fitness have improved.

Problem Encounter and resources required

The problem encountered is:

1. Lack of interest among students

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8	Mobile	9496335523
9	Fax	04842607534
10	E-mail	ucc@uccollege.edu.in

EVALUATIVE REPORT OF DEPARTMENTS
(2011-2016)

DEPARTMENT OF ENGLISH

1. Name of the department: **Department of English**
2. Year of Establishment: **1921**
3. Names of Programmes / Courses offered:
    - B. A. English Language and Literature
    - M. A. English Language and Literature
    - Ph. D

4. Names of Interdisciplinary courses and the departments/units involved
    - Open Course *English for Careers* for fifth semester CBCSS Undergraduate students of the College.
    - TPS-21 Day Training (ASAP Additional Skills Acquisition Programme) sponsored by the Government of Kerala; minimum of one course per year from 2013 onwards; collaborates with the Computer Science Department of the college. So far completed 5 batches with participants from all over Kerala State.

5. Annual/ semester/choice based credit system (programme wise).

Programme	**Pattern**
B. A. English Language and Literature	Semester - Choice Based Credit System
MA. English Language and Literature	Semester - Choice Based Credit System
Ph. D	• Pre-doctoral Course Work is conducted by the department. • Project/thesis guidance given by the research guides of the department.

6. Participation of the department in the courses offered by other departments:
    - Fifth semester CBCSS Undergraduate students of the department take courses offered by the departments of Botany, Zoology, Psychology, Mathematics, Economics, Malayalam, Physical Education, History, etc.
    - Faculty of the Department of English contributes to the courses offered (especially PG level) by the Department of Malayalam by giving lectures on various aspects of language, literature and literary theory.

7. Courses in collaboration with other universities, industries, foreign institutions, etc.
    - TPS-21 Day Training (ASAP Additional Skills Acquisition Programme) is conducted by the Department in collaboration with the Government of Kerala. The screening examination of the course (APTIS) is conducted in collaboration with the British Council.
8. Details of courses/ programmes discontinued (if any) with reasons. **Nil**

9. Number of teaching posts: 12 posts.

Name of the Post	Sanctioned	Filled
Professors	-	-
Associate Professors	3	3
Asst. Professors	10	10

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil, etc.)

Name	Qualification	Designation	Specialization	No. of Years of Experience
Dr Ancy Eapen	M.A, Ph. D	Associate Professor	Gender Studies, Expatriate Fiction.	32
Dr Jacob George C.	M.A. MPhil Ph D	Associate Professor	Canadian Literature ELT	30
Suma Mary Scaria	M.A. MPhil M.Ed.	Associate Professor	ELT	19
Rekha Nair	M.A. MPhil	Assistant Professor	Theatre, Drama.	9
Dr. Sonia Chacko	M.A, Ph.D	Assistant Professor	Indian writing in English	9
Cheri Jacob	M.A, M.Phil	Assistant Professor	Film Studies	9
Sheenu Varghese	M.A, B.Ed	Assistant Professor	Film Studies	8
Alwin Alexander	M.A, B.Ed,M.Phil,PGDT	Assistant Professor	Literay Theory	5
Asha Baby Mathews	M.A, B.Ed	Assistant Professor	Linguistics	5
Feneena S Mohamed	M.A, M.A (Linguistics), P.G.C.T.E	Assistant Professor	Linguistics	4
Akhila Narayanan	M.A, M.Phil	Assistant Professor	Literary Theory	2
Anu S	M.A	Assistant Professor	Literature of the Diaspora	2

11. List of senior visiting faculty:
    - Dr David Haines, Queen's University of Belfast (August 4, 2014).
    - Ms Mamta G. Sagar. Centre for Kannada Studies, Jnana Bharathi Campus, Bangalore University; Playwright, performance poet, columnist, translator and critic (12 December, 2014).
    - Ms Priya A S., Malayalam writer; August 2014.

- Ms Summer Dunsmore; University of Berkeley, California (August 11, 2015).
- Dr Majnu John, Johns Hopkins University, January 2016.

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty.

	Academic Year	% of lectures by temporary faculty	Programme
1.	2011-'12	8%	Undergraduate
2.	2011-'12	4%	Post Graduate
3.	2012-'13	Not applicable	
4.	2012-'14	Not applicable	
5.	2014-'15	Not applicable	
6.	2015-'16	Not applicable	

13. Student -Teacher Ratio (programme wise).

BA English Programme			
Year:	I Year	II Year	III Year
Student-Teacher Ratio	550:12	450:12	42:9

MA English Programme		
Year:	I Year	II Year
Student-Teacher Ratio	16: 12	18: 12

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: **Nil** (The staff meets the salary of a Librarian for the Department Reading Room)
15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Name	Qualification
Dr Ancy Eapen	M. A, Ph. D
Dr Jacob George C.	M. A.; M. Phil; Ph. D
Suma Mary Scaria	M. A.; M. Phil; M. Ed.
Rekha Nair	M. A.; M. Phil.
Dr. Sonia Chacko	M. A, Ph. D
Cheri Jacob	M. A; M. Phil
Sheenu Varghese	M. A, B. Ed
Alwin Alexander	M. A, B. Ed,M. Phil, PGDT
Asha Baby Mathews	M. A,; B. Ed
Feneena S Mohamed	M. A (English Language & Literature); M. A (Linguistics), P.G.C.T.E (E.F.L.U)
Akhila Narayanan	M. A; M. Phil
Anu S	M. A

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received.

    4 Minor Research Projects of UGC

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:

Name of the faculty	Title	Grants Received
Dr. Ancy Eapen	"Creative Works as Quasi-Historical Documents: A Study of the Films and Novels set in the background of the Konkan-Koramandel Coast in the 14th and Fifteenth Century." 2012	1,20,000/-
Suma Mary Skaria	"The Role of the Media in Defining the Changing Faces of Womanhood in Kerala." 2012-15	1,50,000/-
Dr Sonia Chacko	"The Making of the New Woman: A Psycho-Social Analysis of the Impact of Women's Magazines in Kerala." 2012-'15	1,20,000/-
Alwin Alexander	"Reconstituting the Self: A Dialogic Study of the Selected Works by Sarah Joseph and their Praxis of a Critical Theology of Liberation." 2012-2015.	100,000/-
	Total	4,90,000/-

18. Research Centre /facility recognized by the University:
Department of English became **an approved Research Centre** affiliated to **Mahatma Gandhi University in August 1990**. The Centre which has had the glory of producing 31 successful doctoral projects currently has 9 research scholars pursuing their doctoral degree.

19. Publications:
    a) Publication per faculty:

Research Articles Published by Faculty in Journals

Dr Jacob George C.

(i) "Autonomous Learning in ELLE: Cybernautical Approach as the Viaduct to L2 Acquisition'" *CELT: A Journal of Culture, English Language Teaching and Literature*. (ISSN 1412-3320) 12.1, 2012. 16-27. Print.

(ii) "Reading Comprehension of ESL Learners: Effects of Cognitive and Metacognitive Reading Activities." *Perspectives on English Language Pedagogy*. A special issue of *Journal of Indo-Canadian Studies* (ISSN 0972-330) 6:1&2, 2014. 24-37. Print.

(iii) "Contextualizing Temporalities: Issac Asimov's *Foundation* novels and Frank Herbert's *Dune* Novels *Assonance: A Journal of Russian and Comparative Literary Studies*. 16: 2016. (ISSN 2394-7853). Print.

Dr Jacob George C. & Ms Akhila Narayanan

(iv) "Malayalam Cinema in Recent Times: Iconized Linguistic Accents as Identity Generating Devices." *Albertine Review of Literature*. (ISSN 2394-3009) 1.1, 2014. 79-88.

(v) "*Kabooliwalah* (1993), *Penpattanam*(2010) and *Ee Aduthakalathu* (2012): Divergent Cinematic Discourses on Waste." *Discourse: Xavierian Research Journal* (ISSN 2321-0214) 3: 1, March 2015. 28-39. Print.

Cheri Jacob K.

(vi) "The Abuses of Semiosis: Kannaki on Screen." *Albertine Review of Literature*. (ISSN 2394-3009) 1.1, 2014. 38-49.

Alwin Alexander

(vii) "The Omnipresent Look: Lacanian Gaze in Kadamanitta's The Kannur Fort." TJES 3.1 (2011): 15-20.

(viii) "Colonial Signs: A Semiotic Survey of the Imperial Presence in R. K. Narayan's *Swami and Friends." Wizcraft Journal of Language and Literature* 1.2 (2012): 135-137.

(ix) “The Omnipresent Look: Lacanian Gaze in Kadamanitta’s The Kannur Fort.” TJES 3.1 (2011): 15-20.

(x) "Contretemps with the Hegemon(y): The Self/Other Conundrum and Hegemony in Mohsin Hamid's *The Reluctant Fundamentalist." Contemporary Research in India* 2.4 (2012): 12-15.

(xi) "Dialogic Resignification: A Bakhtinian Exegesis of the Magdalene Discourse in *Christ Recrucified." Wizcraft Journal of Language and Literature* 1.1 (2012): 133-137.

(xii) "Carnivalising the Sacred: A Bakhtinian Approach to Nikos Kazantzakis' *Christ Recrucified" TJELLS*2.1 (2012): 89-98.

(xiii)“Carnivalising the Grey Friar: A Bakhtinian Survey of Eco-Spirituality in *God’s Pauper*”. *Labyrinth*. 4.2 (2013): 132-136.

(xiv)“Framing the Dalit: The Subaltern Subject in Sadgati”. TJES 5.1 (2013): 15-20.

(xv) “Deseeyathayude Vyavahaarangal ”. *Sahitya Lokam*. 41.1-3 (2013) : 56-59.

(xvi)“Translating the Subaltern : The Vulnerable Subject in C. Ayyappan’s ’Ghost-Speech’ ”. *Baselius Researcher* 14.1 (2013) : 25-30.

(xvii) “‘Albert Camus: Sannigdhaavasthakalile Manushyan’. *Mathavum Chinthayum: Manushya Darsanam* ed. Dr. Bosco Correya. Pontifical Institute, Aluva: May-June 2015.

(xviii) “Feminine Spirituality: Essays on Soliloquies of the Feminine Soul”. *Malayalam Literary Survey*. 31.4 -33.2 (2013): 69-70.

(xix) ‘Consumptive Matter: Food as an Apparatus in *The Edible Woman*.’ *Perspectives on English Language Pedagogy*. A special issue of *Journal of Indo-Canadian Studies* (ISSN 0972-330) 6:1&2, 2014. Print.

Chapters in Books Published by Faculty

Dr Jacob George C.

(i) “Margaret Atwood’s Bodily Harm: Fictional (Re)presentations of a Nation.” *Introducing Canadian Literature*: *Revised Edition*. Alwaye: JICS, 2013. 64-70. (ISBN 978-93-5104-994-4).

(ii) “Robert Kroetsch’s *What the Crow Said*: From Chaos to Order.” *Introducing Canadian Literature*: *Revised Edition*. Alwaye: JICS, 2013. 95-99. (ISBN 978-93-5104-994-4).

(iii) “Making their Voices Heard: Emergence of Arabic-Canadian Literature” *Introducing Canadian Literature: Revised Edition*. Alwaye: JICS, 2013. 209-216. (ISBN 978-93-5104-994-4).

(iv) “Gaia in Isaac Asimov’s *Foundation* Novels: Ecological Hypothesis as Fictional Terminus.” *Proceedings of UGC Sponsored National seminar on Literature and the Environment.* Sree Sankaracharya University of Sanskrit. 2016.

Rekha Nair

(v) Diaspora Families: a Study of Jhumpa Lahiri’s “Unaccustomed Earth” and “Hell-Heaven.” *Familial Portraits: Cognizance of Indian Writing in English* (ISBN 978-81-910124-0-8).

(vi) “Intended Level of Competence and Actualized Level of Performance” *Proceedings of the U.G.C sponsored national seminar on ‘Models of Teaching: An Enquiry into the Pedagogical Discourses of Teaching in Humanities, Social Sciences and Technology*, M.E.S College, Marampally.; ISBN: 978-81-923985-0-1.

(vii) “De-contextualised Reading Components as a raison d’etre for Learner Alienation: A Critique of the Undergraduate Programme of M. G. University.” *Proceedings of the U.G.C sponsored national seminar on ‘Models of Teaching: An Enquiry into the Pedagogical Discourses of Teaching in Humanities, Social Sciences and Technology*, M.E.S College, Marampally.; ISBN: 978-81-923985-0-1.

Alwin Alexander

(viii)"Carnivalised Scripture: A Bakhtinian Reading of *Christ Recrucified* by Nikos Kazantzakis." *Revisitations: The Politics of Rewriting Old Texts.* Irinjalakkuda: PG Dept. of English, St. Joseph's College, 2011. 67-74.

(ix) "Franciscan Carnival: A Dialogic Study of Eco-Spirituality in *God's Pauper*." *Green Perceptions: Ecology and Texts*. Kalamassery: Dept. of English, St. Paul's College, 2011. 58-63.

(x) "The Search for Self: A Bakhtinian Approach to the Self/Other Dialogue in Lalithambika Antharjanam's *Agnisakshi*." *Deconstructing Foundations: Postmodern Perspectives in Writing*. Changannur: Dept. of English, Christian College, 2011. 20-26.

(xi) "Nature Unfinalized: A Bakhtinian Reading of Literary Ecology in Bibhutibhushan Bandyopadyaya's *Aranyak*." *Indian Literary Historiography andCounter Currents in Postcoloniality*. Eds. Asha Susan Jacob and Tom Thomas. Kozhencherry: PG Dept. of English, St. Thomas College, 2012. 34-42.

(xii) "Emerging (Cyber)Spaces: Paradigms of Transformed Sensibilities in Mukundan's *Nrutham." Remapping of Reality Through Visual Technology: Interdisciplinary Engagements.* Ed. Dr. Tessy Anthony C. Cochin: Dept. of English and Centre for Research, St. Teresa's College, 2012. 79-84.

(xiii) "Dialogising Didactics: Reckoning Pedagogy with Reader-Response Theory and Bakhtinian Templates". *Global Dimensions of English*. Ed. Dr. S. Stephen Jebanesan. Chennai: Research & PG Dept. of English, Madras Christian College, 2013. 15-25

(xiv) "Narrativising the Subaltern: The Site/Sight of the Couple in Kamala Das' Poetry." Portrayal of Family in Indian Writing in English - Seminar Proceedings – UGC National Seminar Organised by Dept. of English NMSS Vellaichamy Nadar College, Madurai on the 15th of March 2013.

(xv) "Vanyathakalude Ithihasam: Parisdhithimanovignaneeyam Khasakinte Ithihasathil." *Ithihasangalude khasak*. Editor. N. Jayakrishnan. Thiruvananthapuram: Bhasha Institute, 2011. 548-556.

(xvi) "Aalahayude pennmakkalil Zelofehadinte puthrimare adayalappeduthumpol" *Sthreinaathmeeyatha: Vicharangal vishakalanangal.* Editor. Dr.Mini Alice. Thiruvalla: C.S.S.,2012. 137-145.

(xvii) "Ooranubhavangalude Uriyaattangal". *Pandu Saattu Kalichappol.* Sibu Modayil. Thiruvananthapuram: Parithi Publications, 2013.

(xviii) "Introduction". *Reverent Reminiscences*. Dr. A. M. Chacko. Thiruvalla: CSS, 2013.

(xix) 'Udalinte Punarakhyanangal' in *Nashtapetta Naanayam* ed. Sr. Dr. Noel Rose Published by SPCS, Kottayam. 2014

(xx) 'Dialogising Didactics: Bakhtinian Concepts as Templates for Pedagogy' in *Innovations in ELT in the Changing Contex*t eds. Prashant Mishra & G. A. Ghanashyam Published by Sarup Books, New Delhi 2014

(xxi) 'Consumptive Matter: Food as an Apparatus in *The Edible Woman*' *Journal of Indo-Canadian Studies: Pespectives on English Language Pedagogy* ed. Dr. Jacob George C Published by JICS . 2014

(xxii) 'What's Cooking? – Decoding the Table in Malayalam Movies' in *Re-tracking the Celluloid: History, Politics and Popular Culture in Films eds.* Dr. J Anjana & Renjith Krishnan K R. 2014.

Sheenu Varghese

(xxiii) "De-contextualised Reading Components as a raison d'etre for Learner Alienation: A Critique of the Undergraduate Programme of M. G. University." *Proceedings of the U.G.C sponsored national seminar on 'Models of Teaching: An Enquiry into the Pedagogical Discourses of Teaching in Humanities, Social Sciences and Technology* M.E.S College, Marampally.; ISBN: 978-81-923985-0-1.

Books & Journals Edited:

Dr Jacob George C.

(i) *Introducing Canadian Literature*: *Revised Edition*. Alwaye: JICS, 2013. 64-70. (ISBN 978-93-5104-994-4).

(ii) *Journal of Indo-Canadian Studies* (ISSN 0972-330) 6:1&2, 2014. 24-37.

(iii) Advisory Editor, *Journal of English Language and Literature* (ISSN 1412-3320) Soegijapranata University, Indonesia).

Cheri Jacob K.

(iv) Editor cum Correspondent International Film Festival of Kerala Official Daily Bulletin English (for Department of Cultural Affairs)

Alwin Alexander

(v) Assistant Editor, *Journal of Indo-Canadian Studies* (ISSN 0972-330) 2014.

(vi) Edited & translated *Feminine Spirituality* Thiruvalla: CSS Books, 2014.

Akhila Narayanan

(vii) Assistant Editor, *Journal of Indo-Canadian Studies* (ISSN 0972-330) 2014.

20. Areas of consultancy and income generated:

Name of Faculty	Consultancy	Income
Dr Jacob George C	ASAP Selection Committee SDE 2014 ASAP Selection Committee SDE 2015 Final Year BA Question Paper setting 2015 University of Kerala PSC Kerala Question paper setting for College Professor Examination 2016 Question Paper setting MA Exam St Berchmans College 2016	Rs 6000 Rs 6000 Rs 1000 Yet to receive Yet to receive
Rekha Nair	UG Question paper setting (3 sets) Maharaja's College	Rs 4500
Feneena S.	Question paper setting Maharaja's College 2015 Judging Committee Baven's Vidya Mandir, Elamakkara 2012	Rs 2000 Rs 2000
Akhila Narayanan	Question Paper setting StTeresa's 2016 CUSAT Elocution Judge University Fest 2014 Judge in Elocution & Extempore competition Baven's Vidya Mandir, Elamakkara 2013	Rs 1500 Rs 2000 Rs 2000

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards.

Name of faculty	2011-12	2012-13	2013-14	2014-15	2015-16
Dr Ancy Eapen				Chairperson, Board of Studies for Undergraduate English Programme, Syllabus	Chairperson of M.A 4th semester theory and Viva-Dissertation Valuation, Chairperson M.A 2nd

				Restructuring, Curriculum Revision, checking model question papers	semester paper valuation. Member of the panel of subject-experts to select faculty in Affiliated Colleges under M.G University. Subject Expert for sanctioning new P.G courses in Affiliated Colleges under M.G University
Dr Jacob George				Resource person and Interview Board member for ASAP.	Recognized as a research guide of M.G University. ASAP Interview Panelist.
Mr Alwin Alexander					Walk with scholar programme,A.S.A.P
Ms Akhila Narayanan					Walk with scholar programme,A.S.A.P

Membership in Editorial Boards

Name	**Journal**	**Post held**
Dr Jacob George C	*Journal of Indo-Canadian Studies* (ISSN 0972-330)	Editor
	Journal of English Language and Literature (ISSN 1412-3320) Soegijapranata University, Indonesia	Advisory Editor
Cheri Jacob K.	*International Film Festival of Kerala Official Daily Bulletin English* (for Department of Cultural Affairs)	Editor cum Correspondent
Alwin Alexander	*Journal of Indo-Canadian Studies* (ISSN 0972-330)	Assistant Editor
Akhila Narayanan	*Journal of Indo-Canadian Studies* (ISSN 0972-330)	Assistant Editor

22. Student projects
    a) Percentage of students who have done in-house projects including inter departmental/ programme: 100%
    b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies: Nil

23. Awards / Recognitions received by faculty.

Name of Faculty	**Award**	**Year**
Cheri Jacob K.	Kerala State Film Award for the best article on film.	2012

Dr Jacob George C	Certificate of Accomplishment: Department of Higher Education, Government of Kerala.	2015
Alwin Alexander	Certificate of Accomplishment: Department of Higher Education, Government of Kerala.	2015
Akhila Narayanan	Certificate of Accomplishment: Department of Higher Education, Government of Kerala.	2015
Department of English	Five Stars Rating in the Additional Skill Acquisition Programme. Department of Higher Education, Government of Kerala.	2015

Awards / Recognitions received by students.

Name of student	**Award/ Achievement**	**Year**
Neenu Rajeev II BA	*Kalathilakam* MG University Youth Festival	2012
Shilpa Catherine III BA	Indian base-ball team member --played in south Korea.	2014
Meera Jacob III BA	Attended National Republic Day Parade	2015
Anandhu Suresh II BA	MG University Youth Festival First Prize Short story	2015
English Department Team	First Prize in Street Play Competition organized at St Teresa's College.	2015
II BA team: 1. Malavika V. 2. Agnes Edldho 3. Merin Martin 4. Gayatri M. R. 5. Devi Vandana G. 6. Benris	III Prize MG University Youth Festival Mime	2015
Anugrah Cherian II BA	MG University Net-ball I Prize	2015
Donna Achamma Ninan I BA	National Level Inter-University Western Group song I Prize	2015
Donna Achamma Ninan II BA	National Level Inter-University Western Group song II Prize	2016
Merly Eldhose II BA	National Service Scheme National Camp Youth Festival	2016
Meera Jacob III BA	Visited Bhutan in connection with NCC activities (Youth Exchange Programme	2016
Aiju P. Andrews III BA	Participated in the National Games as a member of Kerala Senior Hockey Team	2016
Davood Aboobacker III BA	Participated in the National Games as a member of Kerala Senior Hockey Team	2016

24. Seminars/ Conferences/Workshops organized & the source of funding

a) **UGC Sponsored National Workshop** on ***The Dynamics of Popular Cinema*** held on 15th and16th March 2012—Coordinator: Rekha Nair.
b) **UGC Sponsored** Two-Day **National Seminar** on ***Translation: Texts in Context*** on

14 & 15 September 2012—Coordinator: Dr Ancy Eapen.

c) A One Day Regional Workshop on: ***Beckett: Back to Back*** --19 December 2012—Coordinator: Cheri Jacob K. Funded by the Department of English, UCC.

25. Student profile programme/course wise:

Name of the Course/programme	**Total Students**	Students passed	% of pass
2011-'12 --UG	47	45	95.7
2011-'12--PG	20	11	55
2012-'13--UG	38	34	89.47
2012-'13--PG	13	10	76.9
2013-'14--UG	43	39	90.69
2013-'14--PG	14	3	21.4
2014-'15--UG	45	38	84.44
2014-'15--PG	13	8	61.5

26. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc?

SI. No	NET qualified students	Year	Reg. No.
1	Dani Thomas	2014	
2	Anjali Abraham	2013	
3	Asmin N.	2014	
4	Preethi Sarah	2013	
5	Linda P. Joseph	2015	
6	Anand Krishnamurthy	2015	
7	Nazidha Khan S	2015	

27. Student progression:

Chart representing student progression PG: 2011-2015

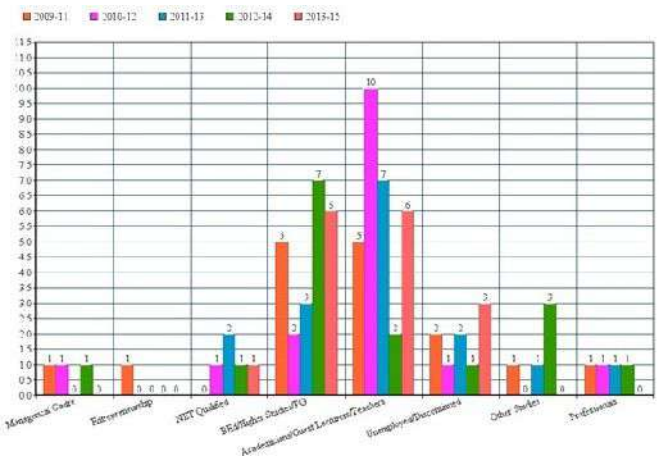
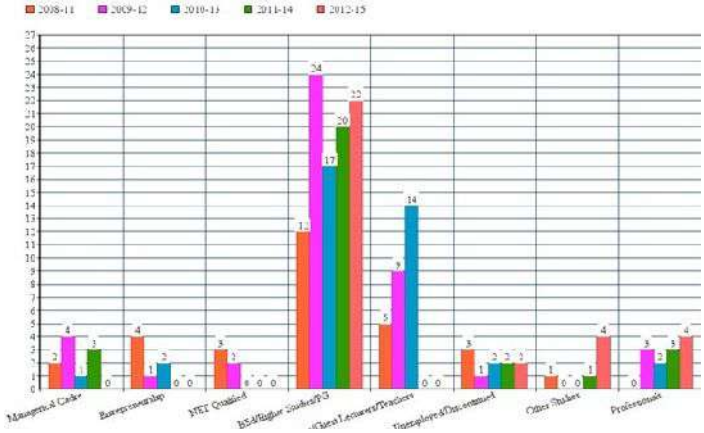


Chart representing student progression UG: 2011-2015



30. Details of Infrastructural facilities

a) Department Reading Room/Library: 875 books (hardcopies)

Reading Café

The current reading room, language lab, and the classroom computers are given access to two databases exclusively devoted to magazines –**Magzter** (Number: 3000) and newspapers—**Pressdisplay**--(Number: 4000). These magazines provide the learners: Fresh reading experiences, access to the latest GK, enhance reading skills and vocabulary, and help in the preparation for various entrance as well as competitive examinations.

b) Internet facilities for Staff & Students:

Department has 8 PCs, 1 laptop with internet facilities.

ICT Facilitated Classrooms for PG.

The current teaching scenario makes use of ICT integrated tools available in the department's instructional media centre. The department uses LCD projector, computers, CALL programmes, DVDs, powerful Wi-Fi connectivity, online chat-rooms, access to programmes like moodle which enhance learner-teacher (facilitator) interaction, and 24x7 learning experience. Future plans envisage the integration of MALL (mobile assisted language/literature learning), with intra-net and internet connectivity.

c) Digital Library & Research/Reference Resources.

Research requires exposure to the latest developments in the concerned fields. The department currently is connected to databases like EBSCO, PROQUEST and GALE. Being a university research department, it has become essential to regularize the membership in these data-bases so that uninterrupted connectivity to all significant knowledge banks would become an actuality rather than a possibility.

d) Department has Language Lab facility which can intake 5 students at a time.

31. Number of students receiving financial assistance from college, university, government or other agencies

College Scholarship 2010-2011 – 300/-	**SC/ST/OBC- Non-creamy Layer and Minorities --UGC Sponsored Scholarship (1000/-)**		
Vinitha (MA) Ashalatha (MA) Arya MP (BA) Anjaly S (BA) Divya Unni (BA) Roshni Sree (BA) Reshma (BA) Roshni Sree (BA) Emil George (BA) Sree Kala	**2010-11** Subin Sudhakaran Noble B Anu Sivan Sruthy Prabhan Manu K T Meera A A Gayathri Anu Ashokan Gireesh K R Asmi A A Adeep Hussain Femina Abdulla	**2011-12** Arya M P Divya Dvakaran Anjali R Riya Rafeekh Arya M P Rabia K A Mariya Varghese Naseema P J Samitha Usman	**2012-13** Mariya Mathew Sandhya T V Vineetha V V Lakshmi Chithra Aswathy Balagopal Arya J Namboodiry Shein S Simon Marjan A U Reshma K M Chithra P Parthan Ram Velayudhan

Scholarships offered by the Department of English

- Alexander Mar Thoma Endowment Prize in English Final year BA/Bsc student on the basis of the highest aggregate mark obtained in English (Part I) Paper I & Paper II of the 1st and 2nd years 2013-14
  Ajisha Sara Mohan- 350/-
- Smt. C L Saraswathy Amma Scholarship (Merit cum Means) M A English (both 1st & 2nd years) 2013-2014
  Asmin N (I MA English); Linda Joseph (II MA English)
- Rev. T V John Memorial Prize (Instituted by Chechama Memorial Trust) For General English and Prose 2013-14
  Lakshmy K T P
- A Aravamudham Iyengar Memorial Prize (Instituted by Chechama Memorial Trust) 2013-14- Tony Raju Varghese

English Department Endowment Prizes:

- Prof. C T Benjamin Proficiency Prize- 3 BA English- Sherin S Simon
- Prof. E Narayanan Nambiar Proficiency Prize Proficiency Prize- I BA English- Navami T S
- G D Gabriel Proficiency Prize- I BA English- Keziah Sabu
- Prof. P J Joseph Scholarship – 3 BA English- K A Rabia
- Prof. K R Joseph Scholarship -2 BA English- Shabnam K S
- Prof. Mathew C Abraham Scholarship- I BA English- Devi Vandana

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Remedial Coaching

Remedial Coaching is organized at Undergraduate / Postgraduate level with an aim to improve life & scholastic skills and proficiency in language of the students. The papers/subjects are chosen on the basis of the level of difficulty for students and they are tutored in the evening after regular class hours.

The programme is designed to:

- Elevate students' level of comprehension and strengthen their knowledge.
- Equip students with a strong foundation in the subject.
- Help learners pursue their higher studies purposefully and with confidence.
- Bring the learners to the same level as their successful classmates.

Student mentoring

The student mentoring system works with the help of class teachers and assistant class teachers who observe students over a period of three years in case of UG and two years in case of PG .
Students are given counseling and are encouraged to meet their tutors.
Teachers also get feedback from other teachers/departments.
Class teachers prepare a detailed report based on class room observation and evaluation of each student.

DESCRIPTION OF FUTURE PROJECTS & THEIR LEARNING OUTCOMES

(A) Teaching (UG)

1. **Instructional Console(s) for the Visually Challenged.**
   There is an increase in the number of visually challenged learners who come to the department every year through the General English stream. The proposed project, which will be backed by several faculty members, will provide guidance and instructional materials beneficial to the learning process taken up by the visually challenged. The programme also focuses on the production of audio-books, interactive materials, directly and indirectly linked to the curriculum. The console will promote self-learning and will help the visually challenged to be more independent and self-reliant.
2. **Interactive Testing: Integrating ICT with Classroom Testing Practices.**
   Integrating information communication technology with classroom testing practices facilitates the creation of a virtual environment that transforms a traditional passive experience to one of discovery, exploration, and excitement in a less stressful setting. A computer-mediated testing environment lowers students' psychological barriers and inhibitions; and dramatically enables them to take tests freely. This could also enhance the student's critical thinking, problem-solving and communication skills. In addition, the project supports the Mahatma Gandhi University's policy to introduce e-learning and paperless assessments formats.

3. **TBLI (Task-based Language Instruction) as a Viaduct for the Integration of Skills.**
   TBLI ensures better learner involvement and would make learning a dynamic exercise. The current instructional material, prescribed in the university curriculum, is often criticized for its lack of provision for TBLI. But the proposed project aims at the production of sharable pedagogical tools that would supplement the existing (conventional) teaching resources and promote a new teaching and learning culture in our part of the world.
4. **Vocational Empowerment through Skill Based Training.**
   The current learner groups have become vocationally under-prepared even after spending 6 semesters on the campus and after working on an extremely challenging curriculum delivered in a short temporal span. The proposed project aims at providing the learner groups, extra-textual vocational skills directly connected with their curricular requirements. These training modules strengthened by opportunity for on-the-job-training are targeted at supplementing and empowering the learners with a strong practical content.

(B) Teaching (PG)

1. **Establishment of Self Access Centre**
   The vision of the Self Access Centre (SAC) is to create a space for students that would provide resources, guidance and an environment to support their individual learning needs and goals. This centre would promote autonomous learning and enhance learner confidence. SAC would encourage learners to become more interactive with teachers and mentors. It would provide the right venue for remedial instruction and help the learners especially the mentally challenged ones (their number is also on the rise on the campus) to raise the level of perception and practical knowledge.

2. **Setting up Moodle to Enhance Teaching-Learning Experience.**
   Higher education across the world is migrating to online platforms to extend and enhance the teaching-learning experience. Moodle is one such avenue, which allows proactive learning, ease of knowledge sharing and offers innovative tools for student-teacher assessment and evaluation. The department of English intends to tap this source to provide our undergraduate and postgraduate students a dynamic learning experience.
   The department will deploy Moodle for:

- Sharing and distribution of course syllabus and reading materials prior to each semester and class.
- Extend classroom environment into a virtual medium where students can continue their discussion or raise queries
- Designing innovative tools and techniques for testing and evaluation.
- Timetabling, grading, feedback will be processed through Moodle.
- Online courses like technical writing; content writing will be offered through this platform.

Outcomes:

- Learning experience round the clock.
- Ready access to resources and courseware
- Maintain a track record of student performance thereby enabling systematic qualitative assessment of each student and the entire class over the duration of the course.

3. **Professional Empowerment through Skill Based Training**
   PG students who usually end up negotiating the placement market become gravely disadvantaged in a scenario which demands practical training and work-experience. The proposed project looks at the possibility of integrating the curricular stipulations with possibilities of designing and implementing vocational programmes that would enrich the vocational preparedness of the learner groups. The project depends on the offer of the Government of Kerala to provide authenticity and acceptability for certification using the professional credibility of the British Council.

5. **Simulation Centre for PG Students**
   The simulation centre uses all the existing infrastructural facilities of the department and is designed to give practical training to PG students. Selected students are involved in remedial teaching, abstract preparation, content writing, technical writing, etc. so that they will get a direct exposure to challenges and possibilities of getting into these professions in future. Constant monitoring and provisions for feedback require electronic equipment and the programme would reap rich dividends only with such ICT backing.

(C) Research

1. **Digital Library & Research/Reference Resources.**
   Research requires exposure to the latest developments in the concerned fields. The department currently is temporarily connected to databases like EBSCO, PROQUEST and GALE. Being a university research department, it has become essential to regularize the membership in these data-bases so that uninterrupted connectivity to all significant knowledge banks would become an actuality rather than a possibility.
2. **MLA software for Quality Enhancement.**
   Along with access to information and research databases the centre feels the necessity to check the authenticity of research output along with its formal and structural accuracy. Purchase of MLA software package is expected to provide a shortcut to the achievement of all these goals.

(D) Extension

1. **English Language and Accent Neutralization classes for Primary School Teachers.**

The main objective of the project is to ensure that primary school English teachers acquire/have writing and communication skills with specific focus on appropriate grammar, vocabulary and pronunciation. Among other problems, mother tongue interference is an obstacle in the acquisition of Standard English and the proposed classes would address this issue. Classes will be held twice a week for a 6 month period. The sessions will include interactive exercises, activities, worksheets and practical classes in the language lab. Formal and informal, written and oral evalution will be conducted on a regular basis for each batch.

Outcomes:

The learner:

- Acquires vocabulary necessary for use in diverse situations.
- Masters sounds and their pronunciation.
- Achieves the potential for grammatically correct communication
- Since the learners function as teacher facilitators in primary classes their learner groups acquire correct/better English so that unlearning would not be required later in their case.

2. **Translation Project**

Translation Studies has emerged as a prominent field in the study of language with conflation of numerous ideas from liguistics, philosophy, literary/cultural studies, semiotics, anthropology and a host of other fields. In this context numerous translation projects have been initiated and realized mostly by leading publishing houses both within and outside the state. However there is a serious lack in the area of translations with pure academic, cultural and linguistic interest. The department proposes a translation project to fill this lacuna. The activities envisaged under the project would include the task of identifying gaps, initiating and promoting good quality translation from Malayalam to English and vice versa, publication, training workshops, formation of a translator pool, and co-ordination of work by scholars. The primary area of focus would be fiction and non-fiction written by women writers from Kerala (Saraswathiamma, Rajalakshmi, Prof. Leelavathi, Sarah Joseph etc). Translation of pedagogic materials (works prescribed in University and School syllabi) would be given priority. The project would promote academic interest in the literary and non-literary works from the regional language.

3. **TRAC: Technology and Research Assisted Content Development**

This endeavor would ensure the collaborative participation of students of both post-graduate and under-graduate levels with teachers which would give the students an exposure to content development, material production and distribution. Schools in the near vicinity with potential, but poor infrastructure/resources will be identified and the department , in consultation with the faculty there, would produce need-based educational material which can be run along with the current syllabus, as an aid.

(E) Any Other:

Refurbishing of Instructional Media Centre.

The existing reading room cum instructional media centre of the department urgently requires refurbishing. It has become essential to air-condition the room so that it doesn't become a torture to the learners during the warmer months of the year. The centre also requires fixed power-backup system to ensure uninterrupted academic activity. For aesthetic reasons and for the enhancement of visual appeal it is essential to refurnish the room with new curtains.

DEPARTMENT OF MALAYALAM

1. Name of the Department : Department of Malayalam
2. Year Established : 1969
3. Names of the Programmes/Courses offered : B.A, M.A, Ph. D
4. Names of inter disciplinary courses and the departments /Units involved : Nil
5. Annual/ semester/choice based credit system:
   - The Choice Based Credit and Semester System (CBCSS) of M G University for the UG Malayalam (6 semesters)
   - The Post Graduate Credit and Semester System (PGCSS) of M G University for the PG Malayalam (4 semesters).
6. Participation of the department in the courses offered by other departments: : Teaches Open course (Journalism) for V semester CBCSS Undergraduate students of the College.
7. Courses in collaboration with other universities, industries, foreign institutions: : Short term 'aksharaslokam' Training Course is conducting in the Department with financial assistance of the Alumni Association of the College in North America (UCCAANA)
8. Details of courses/ programmes discontinued (if any) with reasons : Nil
9. Number of teaching posts : 10

Name of Post	Sanctioned	Filled
Associate Professors	4	4
Asst. Professors	6	6

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.)

	Name	Qualification	Designation	Specialization	Teaching Exp.	No. of h. D. Students guided - last
1.	Dr. V. P. Markose	M.A, M.A, B. Ed, M. Phil, Ph. D	Associate Professor	Linguistics and Grammar	22 yrs	
2.	Dr. Muse Mary George	M.A, B. Ed, M. Phil, Ph. D	Associate Professor	Novel, Short Story, Women' studies	21 yrs	8
3.	Dr. M. I. Punnoose	M.A, B. Ed, M. Phil, Ph. D	Associate Professor	Folklore and Cultural studies	21 yrs	
4.	Dr. Mini Alice	M.A,B. Ed, M. Phil, Ph. D	Assistant Professor	Women' studies	19 yrs	
5.	Capt. K. S. Narayanan	M.A, B. Ed, M. Phil,	Associate Professor	Sanskrit	19 yrs	
6.	Dr. Vidhu Narayan	M.A, B. Ed, M. Phil, Ph. D	Assistant Professor	Linguistics, Grammar, Translation, Ancient Literature & Folklore	10yrs	
7.	Dr. Sibu M. Eapen	M.A, M.A, B. Ed, Ph. D	Assistant Professor	Poetry, Film studies, Linguistics	10yrs	8
8.	Dr. Aju K. N.	M.A, Ph. D, P.D.F.	Assistant Professor	Folklore, Cultural studies & Film studies	15yrs	6

9.	Mr. Saju Mathew	M.A, B. Ed	Assistant Professor	Short Story and Novel	10 yrs	
10.	Mrs. Shimi Paul Baby	M.A, B. Ed	Assistant Professor	Grammar, poetry, Ancient Literature	8 yrs	

11. List of senior visiting faculty : Nil
12. Percentage of lectures delivered and practical classes handled by temporary faculty(programme wise) : UG - 10%
PG - 10%
13. Student - Teacher Ratio (programme wise) : UG – 14:1
PG – 3:1
Ph. D - 8:1
14. Number of academic support staff (technical) and administrative staff sanctioned and filled `: Nil
15. Qualifications of teaching faculty with DSC / DLitt/ PhD / MPhil/ PG.

Sl.No.	Name	Qualification
1.	Dr. V. P. Markose	M.A (Malayalam), M.A(Linguistics), M. Phil, Ph. D
2.	Dr. Muse Mary George	M.A (Malayalam), M. Phil, Ph. D
3.	Dr. M. I. Punnoose	M.A (Malayalam), M. Phil, Ph. D
4.	Dr. Mini Alice	M.A (Malayalam), M. Phil, Ph. D
5.	Capt. K. S. Narayanan	M.A (Malayalam), M. Phil,
6.	Dr. Vidhu Narayan	M.A (Malayalam), M. Phil, Ph. D
7.	Dr. Sibu M. Eapen	M.A (Malayalam), M.A (English), Ph. D
8.	Dr. Aju K. N.	M.A (Malayalam), Ph. D
9.	Mr. Saju Mathew	M.A (Malayalam)
10.	Mrs. Shimi Paul Baby	M.A (Malayalam)

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : One (international);
17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:

Sl. No	Name of the Investigator	Title of the Project	Amount	Funding Agency
1.	Dr. Mini Alice	Swathanthryathinte Prathinidhanangal Malayalathile Sthreekavithakalil	Rs. 50000/-	UGC

18. Research Centre/ facility recognized by the University : Yes
19. Publications
a) Publications per Faculty : Separate list Attached.
b) Number of papers published in peer reviewed journals (national/ international) by faculty and students : 12

c)Number of publications listed in International Database Monographs Chapter in Books Books Edited		

Books with ISBN/ISSN numbers with details of publishers Citation Index SNIP SJR Impact factor h-index	: 	Separate list Attached.

20. Areas of consultancy and income generated : Nil

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards:

1.	Dr. V. P. Markose: Member, Editorial Board, Bhoomi Malayalam Research Journal (ISSN No.2394-9791)
2.	Dr. Muse Mary George: Member, Editorial Board, Bhoomi Malayalam Research Journal (ISSN No.2394-9791)
3.	Dr. M. I. Punnoose: Member, Editorial Board, Bhoomi Malayalam Research Journal (ISSN No.2394-9791)
4.	Dr. Mini Alice: Member, Editorial Board, Bhoomi Malayalam Research Journal (ISSN No.2394-9791)
5.	Capt. K. S. Narayanan: Member, Editorial Board, Bhoomi Malayalam Research Journal (ISSN No.2394-9791)
6.	Dr. Vidhu Narayan: 1. Member, Editorial Board, Bhoomi Malayalam Research Journal (ISSN No.2394-9791) 2. Life Member, Bhandarkar Oriental Research Institute, Pune 3. Life Member, International School of Dravidian Linguists
7.	Dr. Sibu M. Eapen: Member, Editorial Board, Bhoomi Malayalam Research Journal (ISSN No.2394-9791)
8.	Dr. Aju K. N.: 1.Member, Editorial Board, Bhoomi Malayalam Research Journal (ISSN No.2394-9791) 2. Member, Editorial Board, Tapasam Research Journal
9.	1.Member, Editorial Board, Bhoomi Malayalam Research Journal (ISSN No.2394-9791) 2.Member of senate, M.G.University
10.	Mrs. Shimi Paul Baby: Member, Editorial Board, Bhoomi Malayalam Research Journal (ISSN No.2394-9791)

22. Student projects

a) Percentage of students who have done in-house projects including interdepartmental/programme : 100%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories /Industry/ other agencies : NA

23. Awards/Recognitions received by faculty and students : Two

24. List of eminent academicians and scientists /visitors to the department : List Attached

25. Seminars/ Conferences/ Workshops organized & the source of funding

a) State

- Seminar Conducted jointly with V. T. Smaraka Trust
- One day Seminar Conducted in connection with M.P.Paul Memorial Award function

b) National

- Ponjikkara Rafi CN Sreekantan Nair Seminar organised with the financial assistance of Kendra Sahithya Akademi
- Vidwan P.G.Nair National Seminar Conducted Every Year

c) International : Nil

26. Student profile programme /coursewise : Student Profile file Created.

27. Diversity of Students : 6 Advanced Learners in U.G.Courses

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services,etc. : UGC JRF – 2 Students (2011-2015)
UGC NET – 8 Students (2011-2015)

29. Student progression :

30. Details of Infrastructural facilities

a) Library : 800 books in the Dept. library

b) Internet facilities for Staff & Students : Four desktop Computers with internet connection
WiFi Enabled Department

c) Class rooms with ICT facility : N A

d) Laboratories : N A

31. Number of students receiving financial assistance from college, university, government or other agencies: 15 students

32. Details on student enrichment programmes (special lectures /workshops /seminar) with external experts : Special Lectures given to students by eminent scholars

33. Teaching methods adopted to improve student learning :1. We used to give special class for weak students and try to bring them up at least to the average level
2. Remedial Coaching For English Conducted.
3. Recorded Classes for advanced Learners

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- Our teachers have actively participated in various extension activities.
- Teachers are in charge of different clubs and organizing programmes for the welfare of society.

Publications:

Number of papers published in peer reviewed journals (national /international) by faculty and students	,	Monographs/Books
Dr. Muse Mary George **2015** 1. *Pothujeevithathinte Kathakal, Bhashaposhini*, October 2015. 2. *Kanappedunnavayum Kanappedathavayum*, Pranahta Book, March 15 3. *Premathinte Pravarthy mandalangal*, Thanma Magazine, may 2015 4. *Vartha oru Sareeramane*, Sasthragathi, March 15 5. *Pannikal, Bhashaposhini*, September 2015. 6. *Premathekurishe pinneyum*, Padabhetham, April 2015 7. *Udaladhikaram* – Book published by Olive Publishers, Kozhikkode, May 2015. **2014** 1. *Veendum chila veettukaryangal*, Madhavum Chinthayum, July to August 2014 2. *Streeye Enikkum Ninakkum Enthu* – Theological Study Book, Publishers CSS Thiruvalla, Oct 2014 **2013** 1. Painkili padum kalathekkurishe, Grandhalokam October 2013 2. Pennezhuthum Pothu Samuhavum, Assisi Nover 2013 3. Kalame Kelkka, Sahithya Chakravalam, Dec 2013 **2012** 1. Samakalika Madhyamangalile Stree, Malayalam Research Journal, May-August 2012		1.Sthreeye Enikkum Ninakkum Enthu , CSS Books, Thiruvalla 2.Lokakavitha (Study, Editor) Text Book for 2nd Semester BA Malayalam Text Book – Published by Mahatma Gandhi University, Central Co-operative Society December 2011 3. *Udaladhikaram* – Collection of articles) olive Publications, Kozhikode
Dr. M.I. Punnoose **2015** **1.** Sunday school Adhyapanam Enna samoohika saparya, article published in the church weekly magazine, September, 2015. **2.** Edited Snehahastham, a journal published by the journalism students. **3.** Edited Darpanam, literary magazine. **2013** **1.**Edited a research journal titled "Vamseeyatha;Vicharavum Veekshanavum**"** **2.** Christian Vamozhi Paramparyam: article published in Samrakshakan Magazine, March		**1.** Published 8 issues of Darpanam literary magazine

2013 **3**.Borobudoorile Vismaya Kazchakal, published in Church weekly, June, 2013 **2012** **1.**Indonesian Orma Kuripukal , travelogue published in Church weekly, December,2012 **2011** **1.** Edakali Pattukal Oru Patanam, published in Christial Folklore, published by Folklore Academy.		
Dr.Mini Alice 1.Jalajeevithatthinte Pensaakshyangal, Nashtappetta Naanayam, Dr. C. Noal Rose (Ed.), Sahitya Pravarthaka Sahakarana Sangam, 2014 March 2.Chaavuthullal – Praadesikacharithratthinte Ulkhananangal, Malayala Novel Randaayiratthinu Sesham, Dr. K. K. Sivadas(Ed.), 2014 June 3.Mazhappaattakalkku Chiraku Mulakkumbol, Erinju Katthunna Vaakkukal – Rajalakshmiyude Rachanaaprapanjam, Kerala Bhasha Institute, Thiruvananthapuram, 2014 july 4.Veruvevunilamillaattha Adukkalakal – Puthukaala Penkavithakalkkoru Padanam, Samghaditha, 2014 October 5.Penkoodukal Unarum Kaalam, Viswadarmam, 2014 March 6.Pazhamarappacchakalude Kavitha, Kairaliyude Kaakka, 2014 April 7.Koodaaravaasiyaaya Daivam, Church Weekly, 2014 June 8. Pranayachashakam Mattolam Nukarnnu, , Kairaliyude Kaakka, 2014 July		1.Samakaalika Malayaala Kavitha – Puthumayum Palamayum (Ed.) Vidvan P.G. Nair Smaraka Gaveshana Kendram, U.C. College, Aluva, january 2014
Capt.K.S.Narayanan		Editor - PAURASTHYA SAAHITHYA SIDDHAANTHANGAL – PRASAKTHIYUM PRAYOGAVUM – COMPILATION OF SEMINAR PROCEEDINGS conducted by VIDWAN P G NAIR RESEARCH CENTRE, Department of Malayalam, U.C.College,Aluva ISSN No.2394-9791 Book 7/Issue 1/February 2015

Dr. Vidhu Narayan ***Peer Reviewed Journal*** Computerum Bhashayum Malabar Research Manual (Peer Reviewed Journal) Vol .1 No.1 April 2013 ISSN 2320 - 947X ***University Approved Journal*** Asan Padanam Veekshanangalum Viyojanakurippukalaum Vivekodayam Journal, Kumarana Asan National Institute of Culture, Govt. of Kerala, Thonnakkal, Thiruvananthapuram, 2013 july- September issue ***Other Journals*** ONV Kavithakalile Kalidasan Sargabahrathi Jounal 2015 June ISSN 2454-8472 ***Book Chapter*** Malayalavum Samkethikathayum Book-Malayalam Thayverukal puthunampukal, Dakshina, Chennai page-332-337 ISBN No 81-9230832-4 Publication year: 2015 Cyber Lokavum Malayala Bhashayum Book Malayala Bhashayum Madhyama Vicharavum CMS College, Kottayam, pages 45-50 ISBN 978-81-925991-2-0 Publication year: 2014		***University Text Book*** **Kaalyakalam** 6th Semester BA Malayalam Text Book published by M.G.University Central Co-operative store November2011 ***Research Journal*** **Malayala Natakam Sameepanangalum Sadhyathakalum** (Editor) Bhoomi Malayalam Journal Book8 issue 1 January 2016
Dr. Sibu M. Eapen **2014** 1. .Kavithayude Utharalikhithakalam. Article in Book Samakalikamalayalakavitha puthumayum palamayum. ISSN No.2394-9791 2.Keralathile parppida sangalpam kerala Bhasha institute Thiruvananthapuram November2014 **2013** 1. .Venalinte kathiyum mazhayude hrudayavum oruma monthly Thiruvananthapuram ISSN NO.2320-1568 September 2013 **2012** 1. Kathayum kazhchaseelangalum Article in Book samakalika malayalacherukatha U C College Aluva January 2012 ISSN No.2394-9791 2.Purusharachanakalile sthreebimbangal Vinjanakairali pattu kerala Bhasha institute Thiruvananthapuram February 2012 **2011** 1. .Pracheen amalayalakavithayile yathrakal mithum yatharthyavum Article in Book Pazhaya krithi puthiya vayana U.C.College January 2011 ISSN No.2394-9791 2.Samanwayathinte soumya vazhikalum sandhiyakatha samaramozhikalum Oruma monthly Thiruvananthapuram April 2011 ISSN		1. ( ) : 2. ( ) 3. ( ) . . 4. ( ) 5. ( ) 6. ( ) 7. (.)

NO.2320-1568 3.Sugathakaumarikkavitha oru saileevicharam Article in Book Kattukiliyude pattu kerala Bhasha institute Thiruvananthapuram ISBN No 81-7636-920-4 July2011		
Dr. Aju K.N. **2016** "Kerala Derrida Cinemaye Apanirmmikkumpol" (An interview with Dr.V.C.Harris), Narada News Online, published on 11th December 2016, "Press Meet: Two Takes", Daily Bulletin, International Film Festival of Kerala (IFFK), Kerala State Chalachithra Academy, Thiruvananthapuram, 12th December, 2016. "Cinemayude Kanvazhikal", Chalachithra pathippu, Keralabhushanam Monthly, December, 2016, Thiruvalla. "Cheriya Malayalathinte Valiya Koodukal", Mathrubhumi Weekly, December 4, 2016, Kozhikkodu. "Muziris Enna Paithruka Vyavasayam", Samakalika Malayalam Weekly, July 4, 2016, Ernakulam. "Visha Chikithsagrandhangalile Jathivyavaharangal", Mathrubhumi Weekly, April 24, 2016, Kozhikkodu. "Samuel Beckett Mahe Vazhi Kuttanattilekku: Aakhyanathinte Kaimattangalum Parichu Nadalinte Rashtreeyavum", Bhoomi Malayalam Research journal, Department of Malayalam, U.C.College, Aluva, February, 2016, ISSN: 2394-9791. "Paithrukavum Museumeekaranavum: Samskaravimarshana Vicharam", Seminar Proceedings of Cultural Studies: New Trends and Methods, Department of Malayalam, University of Kerala, Thiruvananthapuram, January, 2016. **2015** "Cinemayile Folklore, Cinema enna Folklore", Left Word Monthly, Thiruvananthapuram, December, 2015. "Mahabharathathile Varnavamsa Vyathakal", Bhashaposhini, Kottayam, August, 2015. "Swayambharana College: Vakkum Porulum ", Swayambharana College: Sankalpam, Yatharthyam, Sahitya Pravarthaka Sahakaran		1. **കേരളത** **നാട്ടറിവുകളി** *ഒന്ന: പതി* – ഡി.സി.ബു ' / താപസം കോട്ട , 2005 (ISBN: 81-67376-06-9- 0001) *രണ്ട പതി* – സാഹിത്യപ്ര ത്തകസഹക കോട്ട , 2012 (ISBN: 978-81-922822-1-3) *മൂന്ന: പതി* - സാഹിത്യപ്ര ര കസഹകരണസംഘം കോട്ട , 2015 (ISBN: 978-81-922822-1-3) 2. **ഫോ ലോർ: പാഠ , പഠന** സാഹിത്യപ്ര ത്തകസഹക കോട്ട , 2011 (ISBN: 978-00-0018-01-0) 3. **പലവക: സം കാരപ** സാഹിത്യപ്ര ത്തകസഹക കോട്ട , 2012 (ISBN: 978-93-82654-68-1) 4. **ബ റ്റും ക്രാപ്പ, കുറുപ്പ : നാടകം, തിരക** സാഹിത്യപ്ര ത്തകസഹക കോട്ട , 2014 (ISBN: 978-93-84075-10-1) 5. **കേരളത ജൂത :വേരു , വഴി** മുസിരി പൈതൃക /ബാലസാ ഇ സ്റ്റിറ്റ്യൂ കേരള സ ക്ക: 6. **ഫോ ലോർ: മാതൃകകൾ, പഠന ള** *(എഡി.)* എം.ജി.സർവകലാശാല കോ-ഓപ്പറേ സൊ കോട്ട , 2009 7. **ദലി തിരിച്ചറിവ** *(എഡി.)* വിദ്വാൻ പി.ജി.നായർ മാരക ഗവേഷണ മലയാളവിഭാഗം, യു.സി. കോ , ആലുവ,2009 (ISSN: 2394-9791) 8. **താപസം,** അക്കാ ജേർണൽഫോർകേരളാ സ്റ്റഡീ *(എഡി.)* വാല 1, ല 1, ജൂലൈ 2005 താരതമ്യ സംഘം, ച (ISSN: 2249-9873) 9. **താപസം,** അക്കാ ജേർണൽഫോർകേരളാ സ്റ്റഡീ *(എഡി.)* വാല 2, ല 2, ഒക്ടോ 2006 താരതമ്യ സംഘം, ച (ISSN: 2249-9873) 10. **താപസം,** അക്കാ ജേർണൽഫോർകേരളാ സ്റ്റഡീ *(എഡി.)* വാല 3, ല 4, ഏപ്രി 2008 താരതമ്യ സംഘം, ച (ISSN: 2249-9873) 11. **താപസം,** അക്കാ ജേർണൽഫോർകേരളാസ്റ

Sangham (SPCS), Kottayam, ISSN: 978-93-85488-36-8. "Boddhi: Cinemayil oru prathishedham ", Mathrubhumi Daily, July 6, 2015. "Gomamsam enna rashtreeya bhakshanam ", Samakalika Malayalam Weekly, Ernakulam, April 3, 2015. "Savarnanubhoothiyude Vipareethangal", Bhoomi Malayalam Research journal, Department of Malayalam, U.C.College, Aluva, February, 2015, ISSN: 2394-9791. "Aathmayanangalude Bodhi ", Samakalika Malayalam Weekly, Ernakulam, January 2, 2015. **2014** "Filing for Freedom: Gour Hari Dastaan ", IFFK Daily Bulletin, Kerala Chalachithra Academy, Thiruvananthapuram, December 18, 2014. "Problematising Parallel Cinema: Main Syteam/Many Streams? ", IFFK Daily Bulletin, Kerala Chalachithra Academy, Thiruvananthapuram, December 17, 2014. "Small worlds, Big People ", IFFK Daily Bulletin, Kerala Chalachithra Academy, Thiruvananthapuram, December 17, 2014. "Face to Face with Politics ", IFFK Daily Bulletin, Kerala Chalachithra Academy, Thiruvananthapuram, December 16, 2014. "Recovering Suppressed Films ", IFFK Daily Bulletin, Kerala Chalachithra Academy, Thiruvananthapuram, December 15, 2014. "It is all about White Hairs? ", IFFK Daily Bulletin, Kerala Chalachithra Academy, Thiruvananthapuram, December 15, 2014. "Saamskarika Uthkantakalude Cinemakal", IFFK Daily Bulletin, Kerala Chalachithra Academy, Thiruvananthapuram, December 12, 2014. "Cinema (Ta)kiss ", Kalakaumudi Weekly, Thiruvananthapuram, December 14, 2014. "Folklore Pookkum Cinemavanam", Deshabhimani Weekly, Kozhikkodu, December 14, 2014. "Bahishkrutha Cinemakalude Kanavasantham", Madhyamam Weekly, Kozhikkodu, December 8, 2014. "Madyam: Sannidhyam, Abhavam, Nirodhanam- Cinema srushtikalile soochakangal, Ora monthly, Alappuzha,		*(എഡി.)* വാല്യ 9, ലക്ക 1- 4, ഏപ്രി 2014 താരതമ്യ സംഘം, ചങ്ങനാ (ISSN: 2249-9873) 12. സ്വയംഭര ളേ : സങ്കല് , യാഥാർത്ഥ്യ *(എഡി.)* സാഹിത്യ ത്തകസഹക കോട്ട , 2015. (ISBN: 978-93-85488-36-8)

December, 2014. "Sadacharam Enna Duracharam", Amalolbhava Monthly, Assissi shanti kendra, karukutti, November, 2014. "Manjil Virinja Haider", Madhyamam Weekly, Kozhikkodu, October 27, 2014. "Onasamasyayum Pooranavum", Malayalajalakam Monthly, Adoor, September, 2014. "Translation as Hegemony : Initial Thoughts on the (re)presentation of Subaltern/Regional Writings in(to) English", Tapasam, Journal for Kerala Studies, Association for comparative studies, Vol.9, Issue 1-4, April 2014. "Pazhancholllukalude Rashtreeyam", Amalolbhava, Bimonthly, Assissi shanti kendra, karukutti, February, 2014. " I'm Still Old" Ora Monthly, Alappuzha, Vol 1, Isuue 12, June, 2014. **2013** "Googoleekaranakalathe Gruhaphalam", Amalolbhava, Bimonthly, Assissi shanti kendra, karukutti, April, 2013. "S.K.Pottekkattinte Kathakal", Academic Journal of Vimala college, Thrissur, 2013. " Chitharikkappedunna Padmasanangal" Ora Monthly, Alappuzha, Vol 1, Isuue 12, November 2013. " Samskara patanathil A.R-nu pankundu" , (Interviewed article-1), Mathrubhumi weekly, Kozhikkodu, Book 91, Issue 24, August 25-31, 2013. " Samskara patanathil Chathikkuzhikalundu", (Interviewed article-2), Mathrubhumi weekly, Kozhikkodu, Book 91, Issue 24, August 25-31, 2013. " Samskara patanathil ninnu Rashtreeyam Chorunno?",(Interviewed article-3), Mathrubhumi weekly, Kozhikkodu, Book 91, Issue 24, August 25-31, 2013. "Bhashayum samoohavum adhava Malayalavum malayaliyum", Amalolbhava, Bimonthly, Assissi shanti kendra, karukutti, August, 2013. **2012** "Cinemayile Nirangalude Soundarya rashtreeyangal", Bhashaposhini, January, 2012, Kottayam. "A cultural history of 'taste' in films:		

From Pather Panchali to Salt and Pepper", Revisiting Cultural Studies: Towards a new critical paradigm, Marthoma college, Tiruvalla, ISBN 978-93-82952-00-8, 2012. " Prayuktha Vamseeya Sangeetha Patanam", Keli Bi-monthly, The official Journal of Kerala Sangeetha Nataka Akademi, Thrissur, February-May, 2012. "Cheettu- Verukal, Vazhikal", Bhashaposhini, August, 2012, Kottayam. "Keralathile Joothar: Charithram, Jeevitham, Samskaram", Aureole (ISSN: 2249-7862), A journal of multi disciplinary studies and research, St.Stephen's College, Uzhavoor, Vol.IV, December 2012. " Translation as Hegemony", Indian Literary Historiography and Counter Currents in Postcoloniality (ISBN 978-81-7821-436-8), Proceedings of the UGC National seminar, 2012, Postgraduate department of English, St.Thomas College, Kozhencherry. " Bhakshana drisya vicharangal", Pachakkuthira monthly, DC Books, February Issue, 2012, Kottayam. " Thilakkam Mangatha Thiruseshippukal", Samakalika Malayalam Varika, July 27, 2012. " Jootha Jeevithathile Vyathirikthathakal", Samakalika Malayalam Varika, August 3, 2012. " Kannakiyude Chilamboli: Oru Puravrithathinte Sthala kala Sancharangal", Deshabhimani Weekly, August 12, 2012. "Mobile Kiliyude Kelviyum Vayanayum", Pachakkuthira Monthly, DC Books, Kottayam, October 2012. "Buddhaprathimakale Ippozhum Bhayakkunnathu Aarokke?", Mathrubhumi Weekly, December 2-8, 2012.		
Mr. Saju Mathew 1. Nadan Premavum Nagarabhavanayum, *Kadha Thedunna SancharI* , Chelavur Venu (Ed.), Chintha Publishers, Thiruvananthapuram, 2014 2. Unnatha Vidyabhyasa Rangathe Keninilangal, Teacher's Voice, Autumn 2014		
Ms. Shimi Paul Baby **2015** **1.** Aduneekathayile streepaksha nilapadukal,strinatha adichamartalukal vicharangal,2015,Little Flower,Guruvayoor		

2014 **1.** "Athmakathayile chritraparatha" thudi-Kannur University Publications,2014 april, ISBN 2320-888 **2.** Reinterpreting laminations,Femine Spirituality reflection and discourse,2014,C.S.S Tiruvalla, ISBN 978-81-7821-6485. **2013** **1.** Leopauld sedar senghor, Kerala Bhasha Institute, March 2013,TVM,ISBN 978817638349-3 (Book Published) **2.** "Stree surakshithayalla",Matruboomi daily news, 2013,Januvary 1st **3.** African vamseeyathaude akaporul senghor krithikalil, Vamsheeyatha vicharavum veekshnavum, 2013,U.C.College,Aluva **2012** **1.** "Vilapangal punaragyanam cheyyumbol" strinathmeeyatha vicharangal visahkalanagal, 2012,C.S.S Publications,Thiruvalla,ISBN 978-81-7821-488-7 **2011** **1**"Adhikaravum prathirodhavum varthamanapustakathil" ,Pahzhayakrithi puthiyavayana,2011,U.C College,Aluva**.** **2.** "Kathavishkarathinte naveenaroopangal" ,Sahitya vimarsham,2011,vol 3,issue 2, April		

DEPARTMENT OF HINDI

1. Name of the Department : Hindi
2. Year of Establishment : 1944
3. Names of Programmes / Courses offered:
   : Additional Language – Hindi for I, II, III, and IV Semester CBCSS Undergraduate Students
4. Names of Interdisciplinary courses and the departments / units involved
   : Nil
5. Annual / semester / choice based credit system (programme wise)
   : Choice Based Credit and Semester System (CBCSS) of MG University.
6. Participation of the department in the courses offered by other departments
   : Nil
7. Courses in collaboration with other universities , industries , foreign institutions , etc.
   : Nil
8. Details of courses / programmes discontinued (if any) with reasons
   : Nil
9. Number of Teaching posts

	Sanctioned	**Filled**
Professors	-	-
Associate Professors	-	-
Asst. Professors	**02**	**02**

10. Faculty profile with name , qualification , designation , specialization (D.Sc. / D. Litt. / Ph. D. / M. Phil. etc.)

Name	Qualification	Designation	Specialization	No. of Years Of Experience
R. S. Radhika	M. A., M. Phil.	Asst. Professor	Hindi Language and Literature	05 years
Dr Ruby Elsa Jacob	M. A. , Ph. D.	Asst. Professor & Head	Hindi Language and Literature	05 years

11. List of senior visiting faculty : Nil
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : Nil
13. Student – Teacher Ratio (programme wise): NA
14. Number of Academic support staff (technical) and administrative staff ; sanctioned and filled : Nil
15. Qualifications of teaching faculty with D. Sc / D . Litt / Ph . D. / M. Phil . /PG.

Name	Qualification
R S Radhika	M. A. , M. Phil
Dr Ruby Elsa Jacob	M. A. , Ph. D.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : One Minor Research Project of UGC
17. Departmental projects funded by DST – FIST ; UGC , DBT , ICSSR etc . and total grants received

Name of the Faculty	Title	Grants Received
Dr Ruby Elsa Jacob	The Agony of Women during Indian Sub – continent Partition : A Comparative Study in the scenario of Hindi & English Partition Literature	1.65 lakhs (2015 - `16)

18. Research Centre / facility recognized by the University
: Nil
19. Publications :
a) Publication per faculty :
Number of papers published in peer reviewed journals (national / international) by faculty and students :
R S Radhika :
Article published in ` Sahitya Mandal Pathrika ` on the topic ` *Samay Se Sarokaar Rakhta Sahityakar* ` .
Dr Ruby Elsa Jacob :
An Article based on the Poem Collection of Swapnil Srivastava entitled ` *Swapnil Srivastav Ki Kavitavom Mem Bharateeyata* ` published in Anusheelan Patrika by Department of Hindi , CUSAT. (January 2011)

Article titled ` *Samakaleen Hindi Upanyasom Mem Visthapan* ` was published in Bharatha Patrika Trilingual Monthly (January – March 2014) issue.

Article Published in Bharatha Patrika Trilingual Monthly (April – May 2015) issue entitled ` *Samakaleen Upanyasom Mem Pravasi Bharateeyom Ka Yatharth* `.

Number of publications listed in International Database (For Eg : Web of Science , Scopus , Humanities International Complete , Dare Database – International Social Sciences Directory , EBSCO host , etc .) : Nil

Chapter in Books : 01
Books Edited : 01
R S Radhika :
An Article based on the Poetry Collection entitled ` *Bhoomikayein Khatam Nahin Hoti* ` by Harishchandra Pandey was published in the book entitled ` Kavita Ka Varthaman ` edited by Dr. P. Ravi .

Books with ISBN / ISSN numbers with details of publishers : Nil

20. Areas of consultancy and income generated : Nil
21. Faculty as members in

a) National Committees b) International Committees c) Editorial Boards

Dr Ruby Elsa Jacob

- Member of ` *Bharatiya Sahitya Pratishthan* `, a registered literary organization - National

22. Student Projects
    a) Percentage of students who have done in – house projects including inter departmental / programme : Nil
    b) Percentage of students placed for projects in organizations outside the institution ie . Research laboratories / Industry / other agencies : Nil
23. Awards / Recognitions received by faculty and students

Dr Ruby Elsa Jacob	` *Sahitya Puraskar – 2015* ` by Bharatha Patrika Trilingual Monthly for *Best Research Work*.

24. List of eminent academicians and scientists / visitors to the department : Nil
25. Seminars / Conferences / Workshops organized & the source of funding
    a) National : Nil
    b) International : Nil
26. Student profile programme / course wise : Nil
27. Diversity of students : Nil
28. How many students have cleared national and state competitive examinations such as NET , SLET , GATE , Civil Services , Defense services , etc . ?: Nil
29. Student Progression : Nil
30. Details of Infrastructural facilities
    a) Library : Departmental Library consisting of 1025 books covering almost all branches of literature.
    b) Internet facilities for Staff & Students : Department has a system and a laptop with Internet facilities.
    c) Class rooms with ICT facility : Nil
    d) Laboratories : Nil
31. Number of students receiving financial assistance from college , university , government or other agencies

Scholar ship	**2015**	**2014**	**2013**	**2012**	**2011**	**2010**
Hindi Scholarship	04	04	-	-	-	-
Prof. P K Narayana Menon Memorial Prize	01	01	01	01	01	01

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts : Nil
33. Teaching methods adopted to improve student learning

- Lecture Method
- Debate & Discussion sessions in order to improve speaking skills in Hindi
- Conducting Test papers

- Inspiring students to frame questions
- Assigning home assignments
- Remedial coaching for slow learners
- Reviewing previous question papers
- Scholar Support Programme

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

: Nil

35. SWOC analysis of the department and Future plans

Strengths	**Weakness**
• Committed & competent teaching faculty ensures team spirit & synergy • A very good teacher – student rapport. Subject is popular among students at the general level. • Student's voice is registered through the Manuscript Magazine every year which assures the development of a constructive and productive atmosphere between students belonging to different departments.	• Subject not taught as a main subject. • Financial constraints in organizing invited talks & seminars. • Limitations imposed by University syllabus.
Opportunities	**Challenges**
• Possibility of introducing Hindi Course as Main subject. • Promotion of Hindi language & literature through organizing various literary activities. • Conducting ` Communicative Hindi ` classes.	• Surviving as a single , general level subject. • Lack of adequate financial resources.

Future Plans :

- To introduce Hindi as a major subject at B. A. level.
- Interaction of students with eminent personalities by organizing lectures / workshops / seminars.
- To conduct inter collegiate Quiz / Debate competitions.
- Multi disciplinary workshops / talks with other departments.
- Take up more Minor Research Projects.
- Subscribe to more journals & procure more books for the Department Library.
- To release DASTAK , department Manuscript magazine in printed form.

Annexure 1

List of publications

RESEARCH PUBLICATIONS

1. R S Radhika

i. Article published in ` **Sahitya Mandal Pathrika** ` on the topic **Samay Se Sarokaar Rakhta Sahityakar** .

ii. An Article based on the Poetry Collection entitled ` **Bhoomikayein Khatam Nahin Hoti ‘** by Harishchandra Pandey was published in the book entitled ` **Kavita Ka Varthaman** ‘ edited by Dr. P. Ravi .

2. **Dr Ruby Elsa Jacob**

i. An Article based on the Poem Collection of Swapnil Srivastava entitled ` **Swapnil Srivastav Ki Kavitavom Mem Bharateeyata** ` published in **Anusheelan** [ISSN : 2249 – 2844] (January 2011) by Department of Hindi , CUSAT.

ii. Article titled ` **Samakaleen Hindi Upanyasom Mem Visthapan** ` was published in **Bharatha Patrika Trilingual Monthly** [ISSN 2277 – 5471] (January – March 2014) issue.

iii. An Article Published in **Bharatha Patrika Trilingual Monthly** [ISSN 2277 – 5471] (April – May 2015 issue) entitled ` **Samakaleen Upanyasom Mem Pravasi Bharateeyom Ka Yatharth** `.

iv. An Article entitiled ` **Visthapan : Samaajik , Rajnitik aur Sanskrutik Pariprekshy Mem** ` published in **Bharatha Patrika Trilingual Monthly** [ISSN 2277 – 5471] (January - March 2016 issue)

Seminar Presentation by Faculty

R S Radhika

Presented a Research Paper titled `` *Badalte Moolyom Ka Dastavez : Kunto* `` in the UGC Sponsored National Seminar on ` *Hindi Sahitya Ko Bhishm Sahni Ki Den* ` on 29 January 2015 at Sri Sankaracharya University of Sanskrit , Kalady .

Dr Ruby Elsa Jacob

Presented a Research Paper titled `` *Premchand ki Kahaniyom mem Navjagaran ka Prabhav* `` in the UGC – DSA National Seminar on “ *Navjagaran Kaleen Hindi Aur Malayalam Kathasahitya* “ conducted by the Department of Hindi , Cochin University of Science & Technology , Kochi (17 , 18 & 19 March 2016)

HONOURS & AWARDS

Name	Awarded Honour
Dr Ruby Elsa Jacob	***Sahitya Puraskar – 2015*** *awarded by Bharatha Patrika Trilingual Research Journal (ISSN 2277 – 5471) for* **Best Research Work**

Participation in International / National Seminars :

R S Radhika

International Seminars

1. `` ***Teaching Hindi in Non – Hindi Speaking Areas*** `` - Department of Hindi , St. Teresa's College , Ernakulam. (4 &5 February 2013)

National Seminars

2. `` ***Stree Vimarsh Aur Samakaleen Hindi Sahitya*** `` - Department of Hindi , SSUS , Kalady. (28 February - 01 March 2013)
3. ``***Samakaleen Hindi Upanyas Ke Vividh Aayaam*** `` - Department of Hindi , SSUS , Kalady (16-18 December 2013)
4. `` ***Hindi Sahitya Ko Bhishm Sahni Ki Den*** ` - Department of Hindi , SSUS , Kalady (28-30 January 2015)
5. " ***Sampradayikata Aur Sahitya*** `` - Department of Hindi,SSUS,Kalady & VIKALP (17 October 2015)
6. Attended a three day UGC DSA National Seminar on ***Navajagaran Kaleen Hindi Aur Malayalam Katha Sahitya*** Conducted by the Department of Hindi, Cochin University of science & Technology Kochi on 17,18 & 19th March 2016.

Dr Ruby Elsa Jacob

International Seminars

1. UGC International Seminar on " ***Hindi Bhasha : Swatv , Vinimay Aur Pratirodh*** '' –Departmernt of Hindi , CUSAT(15/12/2015 – 17/12/2015)
2. " ***Zameen Aur Jal Se Judi Samvedana aur Samakaleen Hindi Literture*** '' [*The Dialectics of water and soil in Contemporary Hindi Literature*] - Department of Hindi , St. Teresa's College , Ernakulam (18 & 19 August 2016)

National Seminars

1. Attended & *presented a research paper* in the Three day UGC - DSA National Seminar on ***Navajagaran Kaleen Hindi Aur Malayalam Katha Sahitya*** conducted by the Department of Hindi, Cochin University of science & Technology , Kochi (17,18 & 19 March 2016.)
2. UGC sponsored Two Day National Seminar on ``***Universalisation in Post – Seventy Hindi Literature*** `` - Department of Hindi NSS Hindu College , Changanacherry (5 & 6 September 2013)
3. UGC Two Day National Seminar on `` ***Literature of Ramvilas Sharma*** `` - Department of Hindi CUSAT (7&8 February 2013)
4. UGC National Seminar on `` ***Yoga for Health , Cure & Longevity*** `` - Department of Physical Education , St. Joseph's College for Women , Alappuzha (15&16 November 2011)

Dr. Ruby Elsa Jacob

Chapter in Book :

` *Samakaleen Sahity : Vividh Paripreksh*y ` - a criticism edited by Dr. Sanjay . L. Madar , published by Taxshila Prakashan , New Delhi [ISBN -978-81-7965-280-0] included an article by Dr. Ruby Elsa Jacob titled ` *Samakaleen Hindi Upanyasom Mem Janjatiyom Ka Visthapan* `

Sole Author :

A book titled ` *Samakaleen Hindi Upanyasom Mem Visthapan* ` [ISBN – 978-93-86248-02-2] published by Vidya Prakashan , Kanpur.

Resource Person :

Delivered a Talk on ` *The Importance of Hindi* ` at Prajyoti Niketan College , Pudukkad , Trissur on November 1 , 2016 and also inaugurated the Hindi Association activities .

Paper Presentation :

Presented a Research Paper titled `` *Samakaleen Hindi Upanyasom Mem Janjati Visthapan* `` in the UGC National Seminar on `` *Vikas , Visthapan Aur Sahity* `` conducted by the Department of Hindi , Sree Sankaracharya University of Sanskrit , Kalady (08 , 09 & 10 March 2017)

Visit of an Eminent Academician to the Department :

Dr. Prameela K.P , Professor & Co – ordinator , Department of Translation Studies , Sree Sankaracharya University of Sanskrit , Kalady visited the Department on 21/02/2017 and inaugurated the departmental activities in connection with International Mother Language Day & took a class on the various theories of Translation & its relevance in literature for the First Year Under Graduate students.

DEPARTMENT OF ECONOMICS

1. Name of the Department : ECONOMICS
2. Year of Establishment : B A 1971 : MA 1981
3. Names of Programmes / Courses Offered: B. A and M. A. ECONOMICS
   Ph. D PROGRAMME
4. Names of Interdisciplinary courses and the departments/units involved
   The Department offers open course (Environmental Economics) for fifth semester CBCSS Undergraduate students of the College

5. Annual/ semester/choice based credit system (programme wise)
   a) The Choice Based Credit and Semester System (CBCSS) of M G University for the UG Economics Programme (6 semesters)

   b) The Post Graduate Credit and Semester System (PGCSS) of M G University for the PG Economics (4 semesters).

6. Participation of the department in the courses offered by other departments
   The Department offers a Complimentary course for B. A History and Open course (Environmental Economics) for fifth semester CBCSS Undergraduate students of the College.

7. Courses in collaboration with other universities, industries, foreign institutions-
   NIL
8. Details of courses/ programmes discontinued (if any) with reasons –
   Nil
9. Number of teaching posts (PERMANENT)

	Sanctioned	Filled
Professors	0	0
Associate Professors	02	02
Assistant Professors	06	06
Total	08 (7 + 1 Political Science)	08

10. Faculty profile with name, qualification, designation, specialization,

Name	Qualification	Designation	Specialization	No. of Years of Exp.	No. of Ph. D. Students guided - last 4 years
Dr Rajan Varughese	M. A., Ph. D.	Assoc.Prof.	Public Economics	32	
Ms. Suni George J	M. A., M. Phil.	Assoc.Prof.	Industrial Economics	29	
Dr. Sunil Abraham Thomas	M. A., M. A., M. B. A.	Assist.Prof.	Macro Economics	11	
Ms. G Geethika	MA	Assist. Prof.	Political Science	8	
Ms. Liji Lawrence	MA	Assist. Prof.	Micro Economics	6	
Ms. Nino Baby	M. A.	Assist. Prof.	Development Economics	6	
Ms. Rajalakshmi. R	M. A., M. Phil.	Assist. Prof.	Development Economics	5.2	
Dr Ann George	M. A., M. Phil. Ph. D., P D F	Assist. Prof.	Labour Economics	1	

11. List of senior visiting faculty

Prof Irudaya Rajan	Centre for Development Studies, Trivandrum
Dr Surajit Das	JNU, New Delhi
Dr K.K George	Director, CSES, Kochi
Prof Rajan Gurukkal	Professor, IISC, Bangalore
Dr. Mathew Kurian	Dr K N Raj Centre, Kottayam
Dr P S Mohankumar	Former HOD, SS College Kalady
Dr. Harikumar	Professor, CUSAT, Kochi
Dr Martin Patrick	Director, Rural Academy of Management Studies, Cherai
Dr. Latha Nair	Professor, St Teresa's college, Ernakulam
Dr. K V Kunhikrisnan	Former Registrar,
Dr. Visakha Varma	Professor (Retd) Maharajas College, Ernakulam

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty.

NIL

13. Student -Teacher Ratio (programme wise)

B. A. Economics – 22 : 1

M. A. Economics – 5:1

14. Number of academic support staff (technical) and administrative staff sanctioned and filled

Sanctioned	0
Filled	0

15. Qualifications of teaching faculty with

Qualification	
D. Sc	0

D. Litt	0
Ph. D.	3
M. Phil.	3

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

Agency	Details
International	0
National	3

Name	Agency	Amount
Ms. Liji Lawrence	UGC(minor)	Rs 1,15,000
Ms. Nino Baby	UGC (minor)	Rs 1,00000
Ms. Rajalakshmi R	UGC (minor)	Rs1,30,000

17. Departmental projects funded by DST –FST, UGC, DBT, ICSSR, etc and total grants received:

Nil

18. Research Centre / facility recognized by the University:

The Department has been recognized as the M.G.University Research Centre in Economics

Research Guides - 3

1. Dr. C A Antony -
2. Dr. Rajan Varughese
3. Dr. Rejimon P M

Name of research scholars:

19. Publications

Publications per Faculty

Name of the Faculty	No of Publications
G. Geethika	2
R. Rajalakshmi	1
Dr Ann George	6

Number of papers published in peer reviewed journals (National/ International) by faculty

Sl No	Author	Name of the Article	National/ International	Journal
1	G. Geethika	Women Labour migrants and Kerala: A human rights approach with special reference to health and sanitation issues	Seminar proceedings/ National	Proceedings of Seminar on Human Rights. Issues of the Migrant Labourers in Kerala.
2	G. Geethika	TRIPS to TRIPS-Plus: An Overview of the Indian Generic Drug Industry & Some Newfound Hurdles	National	*Indian Journal of Politics and International Relations.*
3	Rajalakshmi R.	Migrant Labour Registration and violation of Human rights in Kerala: Some legal perspective	Seminar proceedings/ National	Proceedings of Seminar on Human Rights. Issues of the Migrant Labourers in

				Kerala.
4	Dr Ann George	Explicating the capability approach through the voices of the poor. A case study of waste picking Women in Kerala	International	Journal of Human development and capabilities
6	Dr Ann George	Changing Cities and Changing Lives: Development Induced Displacement in Kochi, Kerala	International	International Journal on Urban Environment. Vol 1, issue 1. July 2015
7	Dr Ann George	Being Employed At the Lower End. Going through And Beyond the Narratives of Waste Picking women in Kerala	National	The Indian Journal of Labour Economics vol 57, No 2, 2014
8	Dr Ann George	Education of Poor in Kerala – Achievements, aspirations and orientations"	National	Journal of Educational Planning and Administration. Vol XXVIII, No 3, July 2014, pp 235-248
9	Dr Ann George	Being Less Equal: Narratives of Poor waste Picking Women in Kerala on inequality	National	Indian Journal of Human Development. Volume 7 No January – June , 2013
10	Dr Ann George	Corporate Governance and child Labour	National	Economic and Political Weekly, Vol XLVII No 50, December 2012

- Number of Publications listed in international database NIL
- Monographs 1

Sl No	Author	Name of the paper	National/ International	Journal
1	Dr Ann George	After – life of Mobile Phones: Waste or return to production	National	Working Paper No WP 07/2014 Institute for Human development New Delhi.

- Chapters in Book

Sl No	Name of the Author	Title of the Chapter	Title of the book	Publisher
1	Ms. Nino Baby	Women on Wheels: The *She-taxi* Initiative in Kerala as a Strategy for Empowerment of Women	Women's Empowerment: A Strategy for Development	Bookwell

- Books Edited

Sl No	Name of the Author	Title of the book	Publisher
1	Dr. Rajan Varughese (co-authored)	Swayambharana College : Sankalpam Yadharthyam (2015)	SPCSS, National Book Stall (NBS)
2	Dr. Rajan Varughese (edited)	Encounters : A University on Trial (2012)	SPCSS, National Book Stall (NBS)

- Books with ISBN/ISSN Numbers
- Citation Index NIL
- SNIJ NIL
- Impact Factor NIL
- h-index NIL

20. Areas of consultancy and income generated NIL

21. Faculty as members in a) National b) international c) Editorial boards

Ms. Suni George J

- Member of Curriculum Review committee, M G university
- Member Board of studies, M G University, Kottayam

22. Student Projects

a) Percentage of students who have done in-house projects including inter departmental/programme: 100 %

b) Percentage of students placed for projects in organizations outside the institution

10% in various Panchayat offices
5% in cooperative banks and societies
5% in various Government owned organizations

23. Awards / Recognition received by faculty and students -

Faculty – NIL
Students – for their excellence in sports and arts

24. List of eminent academicians and scientists / visitors to the department

Prof Irudaya Rajan	Centre for Development Studies, Trivandrum
Dr Venkatesh Athreya	Professor, Pondicherry University
Prof Praveen Jha	JNU, New Delhi
Dr. Prabhat Patnaik	Professor, JNU New Delhi
Prof Amit S Ray	Director, CDS, Trivandrum
Dr Surajit Das	JNU, New Delhi
Dr K.K George	Director, CSES, Kochi
Dr Susan Thomas	Professor, IGIDR, Mumbai
Dr. B Ekbal	Former VC, Kerala University
Mr. C J George	MD, Geojit Securities
Prof M.A Oommen	Emeritus professor, ISS, New Delhi
Dr Anuradha Balaram	Member secretary, Kerala State Planning Board
Prof Rajan Gurukkal	Professor, IISC, Bangalore
Justice K.T Thomas	Retired Judge, Supreme Court of India
Dr. T. M. Thomas Issac, MLA	Former Fellow Centre for Development Studies, Trivandrum & Former Finance Minister, Kerala.
Dr. K.M. Seethi	Professor, School of International Relations & Politics & Director, KN Raj Centre, M. G. University
Dr. Shaji Varkey	Professor, Department of Political Science, Kerala

	University
Dr. Jose Sebastian	Associate Professor at *Gulati Institute* of Finance and Taxation, Trivandrum
Dr. D. Prasanth	Chief, Plan co-ordination Division, Kerala State Planning Board, Trivandrum
Dr. D. Narayana	Former Director, Gulati Institute of Finance and Taxation, Trivandrum
Dr. Harikumar S.	Professor, Department of Applied Economics, Cochin University
Dr. Martin Patrick	Director, Rural Academy of Management Studies, Cherai
Rev. Prof K V Paulose	Former HOD, Department of Economics, Baselious College, Kottayam
Mr. Midhun V.	Assistant Professor, Govt. Law College, Trivandrum|
Dr. Tomy Varghese	
Mr. R. Mohan	Additional Commissioner, Income Tax Department, Kochi)
Dr. Mathew Kurien	Joint Director, KN Raj Centre, Mahatma Gandhi University, Kottayam
Dr. C.A. Antony	Director, School of Management Studies, UC College, Aluva
Dr. Sunil P. Ilayidam	Professor, Sree Sankara University of Sanskrit, Kalady
Dr. K.N. Raghavan IRS	Customs Commissioner, Kochi
Dr. P.S. Mohanakumar	DC School of Management, Technopark
Dr. P.A. Mathew	Director, FISAT Business School, Kochi
Dr. N.J. Kurien	Professor, Centre for Social Development, New Delhi
Dr. N. Ajithkumar	Former HOD & Principal, Cochin College, Ernakulam
Dr. K.P. Mani	HOD, Department of Economics, University of Calicut

25. Seminars/ Conferences/Workshops organized & the source of funding National and State

Sl No	Date	National/ State	Topic of the Seminar	Agency
1	5, August 2015	National	Secularism and Religion in the context of Human rights	UGC
2	3, December, 2014	State	Tectonic Shifts in Kerala Society and Economy	
3	23rd - 24th October 2014	National	Major Issues in Centre –State Financial Relations In India	UGC
4	8th March 2014	State	Gold Smuggling in Kerala	
5	19th December 2013	State	Knowledge Economy and India	
6	19th January 2013	State	Economic development Vs Social Development	
7	21st August 2013	State	Workshop on Research Methodology	
8	23rd March 2013	State	Food Nutrition Security in India	
9	27th September 2012	State	Workshop on Research Methodology	
10	22nd February 2012	State	Approaches to Twelfth Five Year Plan	

26. Student profile programme/course wise:

BA Economics: 70 % of the total seats sanctioned are filled through centralized allotment process of Mahatma Gandhi University, another 20 % through management quota, and remaining 10 % through community quota. Total seats sanctioned 60

Year	Applications Received	Selected	Enrolled for Exams		Pass Percentage
			Male	Female	
2010		60	17	40	96 %
2011		60	18	38	79 %
2012		60	15	42	84 %
2013		60	11	40	84 %
2014		60	14	41	81%
2015		60	13	41	81%

MA Economics : 70 percentage of the total seats sanctioned are filled through Centralized Allotment Process of Mahatma Gandhi University, another 20 % through management quota, and remaining 10 % through community quota. Total seats sanctioned 20

Year	Applications received	Selected	Enrolled for Exams		Pass Percentage
			Male	Female	
2010		20	3	10	84%
2011		20	2	17	52%
2012		20	3	17	80%
2013		20	2	14	81%
2014		20	2	10	50%
2015		20	2	15	70%

27. Diversity of Students:

BA Economics

Name of the Course	% of students from the same state	% of students from other states	% of students from abroad
2010	100%	0	0
2011	100 %	0	0
2012	96.7.%	3.3	0
2013	98.4%	1.6%	0
2014	96.7%	3.33	0
2015	98.15%	1.85%	0

MA Economics

Name of the Course	% of students from the same state	% of students from other states	% of students from abroad
2010	100%	0	0
2011	100 %	0	0
2012	95%	5%	0
2013	95%	5%	0
2014	95%	5%	0

2015	95%	55	0

28. How many students have cleared national and state competitive examinations?
    8 students cleared UGC - NET Examinations

29. Student progression:

Student progression against enrolled	2008- 11	2009- 12	2010- 13	2011- 14	2012- 15
UG to PG	10 %	15 %	20%	18%	20%
PG to MPhil	2%	0	1%	0	-
PG to PhD	0	5%	0	0	0
PhD to PDF	0	0	0	0	
Employed Campus Placement Other than campus recruitment	 2% 10%	 1% 5%	 0 10%	 0 10%	 - -
Entrepreneurship / Self Employment	10%	12%	10%	12%	1

30. Details of Infrastructural facilities
    a) Department Library: 300 titles in department Library
    b) Internet Facility for staff and Students: Fully Wi-Fi enabled Department
    c) Class rooms with ICT facility: Yes
    d) Laboratory: NA
31. Number of students receiving financial assistance from Government – e grants
    BA Economics and MA Economics

2011-11	2011-12	2012-13	2013-14	2014-15
60	43	34	43	32

32. Details on student enrichment programmes with external experts
    Following enrichment programs are conducted regularly by the Department
    - Orientation Sessions for I BA and IMA Students
    - Career Guidance classes for final year students
    - Research methodology classes for MA Students
    - Self Development classes by experts
    - Department Association meets every week.
33. Teaching methods adopted to improve student learning
    - Group discussions
    - Lecture method
    - Remedial Classes
    - Seminars
    - Peer teaching
    - Continuous Evaluation
34. Participation in Institutional Social Responsibility and extension Activities
    Department is conducting a Socio-Economic survey to identify the prospects and problems of Karumaloor Grama Panchyat, Aluva
35. SWOC Analysis

STRENGTH

- Faculty – strong research background, publications, undertaken projects
- Merit based Admission of students and Merit based Appointment of teachers
- Strict adherence to government norms of reservation

WEAKNESS

- Poor quality of student intake.
- Limitations of physical infrastructure
- Limitations imposed by university structure

OPPORTUNITIES:

- Changing economic environment – prepare students for higher studies in prestigious institutions – training to students for competitive examinations – training students for national level examinations like NET< JRF, GATE, IES etc
- Increased demand graduates of Economics

CHALLENGES

- deteriorating quality of students consequence of proliferation of professional college in self financing stream
- paucity of funds for research and extension activities -

FUTURE PLANS

- Ensuring Better and improved infrastructural facilities for students and faculties including physical infrastructure
- Starting innovative programs
    - MPhil, Diploma programmes in Government Finance,
    - Equity studies,
    - Environmental studies,
    - Women empowerment,
    - Multidimensional poverty Index)

- Community Outreach programmes (Socio-economic surveys, Preparation of Human Development Index for Local Areas)

Specific Plans of the Department

Teaching and Learning

1. Training in methodology
2. Project Work and Field survey
3. Bridge Courses and Add-On Courses
4. Inter- Disciplinary Approach
5. Project based learning
6. Setting up of Department library and reading room

Research:

1. Socio-economic survey
2. Constructing Human Development Index and multidimensional poverty index
3. Social science e- journals

Extension:

1. Adoption of rural village
2. Preparation of local level plan documents for Local Self Government Institutions

DEPARTMENT OF HISTORY

Name of the Department : History
Year of Establishment : 1968
Courses offered : B.A. History, M.A. History, Phd.
Name of interdisciplinary Courses offered: Advanced Diploma in Archaeology and Museology

5. Annual/ semester/choice based credit system: :
   - The Choice Based Credit and Semester System (CBCSS) of M G University for the UG History (6 semesters)
   - The Post Graduate Credit and Semester System (PGCSS) of M G University for the PG History (4 semesters).
6. Participation of the department in the courses offered by other departments: : Open course (Environmental History) for V semester CBCSS Undergraduate students of the College.
7. Courses in collaboration with other universities, industries, foreign institutions: : Nil
8. Details of courses/ programmes discontinued (if any) with reasons : Nil
9. Number of sanctioned teaching posts : 8

Name of Post	**Sanctioned**	**Filled**
Associate Professors	2	2
Asst. Professors	6	5

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.)

Name	Qualification	Designation	Specialization	Exp.	No. of h. D. Students guided - last 4 years
Ms. Suja K. Sam	M.A.	Assoc. Prof.	Keralal History, National Movement	29	
Ms. Annie Jose	M.A., M. Ed, M.Phil	Assoc. Prof.		24	
Dr. Sebastian Joseph	M.A., M. Phil, Ph.D	Asst. Prof.	Environmental History, Oral history	10	
Ms. Juby John	M.A., M.Ed	Asst. Prof.	Gender Studies	9	
Ms. Tresa Divya.T.J	M.A., B.Ed	Asst. Prof.	Gender Studies	7	
Dr. Jenee Peter	M. A., M. A. (Arch), Ph. D	Asst. Prof.	Archaeology, Ancient Indian History	7	
Dr.Twincy	M.A., B.Ed,	Asst. Prof.	Modern Kerala	7	

Varghese	Ph. D		History, National Movement	

11. List of senior visiting faculty : Nil
12. Percentage of lectures delivered and practical classes handled by temporary faculty(programme wise) : UG - 25%
PG – Nil
13. Student - Teacher Ratio (programme wise) : UG – 14:1
PG – 3:1
Ph. D - 8:1
14. Number of academic support staff (technical) and administrative staff sanctioned and filled `: Nil

15. Qualifications of teaching faculty with DSC / DLitt/ PhD / MPhil/ PG.

	Name	Qualification
1	Ms. Suja K. Sam	M.A. History
2	Ms. Annie Jose	M.A. History, M. Ed, M.Phil
3	Dr. Sebastian Joseph	M.A. History, Ph.D
4	Ms. Juby John	M.A. History, M.Ed
5	Ms. Tresa Divya.T.J	M.A. History, B.Ed
6	Dr. Jenee Peter	M.A. History, M.A. Archaeology, Ph.D
7	Dr.Twincy Varghese	M.A. History, B.Ed, Ph.D

16. Number of faculty with on-going projects from a) National b) International funding agencies and grants received : National: 01: Indira Gandhi National Centre for the Arts, Ministry of Culture.
17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:

Major Research projects during the period -1

Sl. No	Name of the Investigator	Title of the Project	Amount	Funding Agency
1.	Dr. Jenee Peter	Multidisciplinary Documentation of the Rock art of Kerala, 2014-17	Rs.8,50,000/-	Indira Gandhi National Centre for the Arts, Ministry of Culture. Government of India 2014-2017

Minor Research projects during the period -6

Name of the Investigator	Title of the Project	Amount	Funding Agency
Dr. Sebastian Joseph	Expanding the Social Reachability of Higher Education through effective interventions in academic practices: Reflections on best practices for social transformation	100000	KSHEC, Govt. of Kerala

Dr. Jenee Peter	Cultural and Diversity of Western Ghats – A Case Study of Mannan Community in Kerala	1,65,000	U G C M R P
Dr. Jenee Peter 2011-12	Cultural History and eco-feminist perspectives of Lakshadweep Island	Rs. 2,10,000	United Board
Dr. Jenee Peter 2013-14	Weaving Lives Local Knowledge Initiatives in Handloom Industry of Kerala	2,10,000	United Board
Dr. Jenee Peter 2014-15	Religious Borrowing and Interfaith Dialogues: A Historic Continuum in Kerala	2,40,000	United Board
Ms. Juby John	Envisioning Female Agency –Tracing the History of the Local Women Co-workers of the CMS Mission-19th and 20th century.	1,70000	U G C M R P
Ms. Tresa Divya.T.J	The Invisible City – Mapping the History of the Urban Poor in Cochin	1,50000	U G C

18. Research Centre/ facility recognized by the University : Yes

19. Publications :

a) Publications per Faculty

Name	Article	Book
Dr. Sebastian Joseph :	3	1.*Cochin forests and the Making of British*, Published by PRIMUS, NEW DELHI, 2015., 2.'The Great Chavarian Revolution' in Dr. P. F. Gopakumar (ed.), Faces of Social Reform in Kerala, 2015.
Dr. Jenee Peter	11	06

b) Number of papers published in peer reviewed journals (national/ international) by faculty and students :

Name	Papers in Refereed Journals	Conference Proceedings
Dr. Jenee Peter	02	03

20. Areas of consultancy and income generated : Nil

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards:

Dr. Sebastian Joseph	Member, Editorial Board, Review of Social Sciences (Refreed Journal)
Dr. Jenee Peter	Member of Two Editorial Board Refereed Journal in Social Sciences – Ancient Asia (Pune) Historicity (Nashik)

22. Student projects

a) Percentage of students who have done in-house projects including interdepartmental/programme : 100%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories /Industry/ other agencies : NA

23. Awards/Recognitions received by Faculty and students :

Name	Award	Agency
Dr. Sebastian Joseph	Grant for Academic Visit to England for studies and lectures in Environmental History of India	Charles Wallace Award, British Council,2013
Dr. Jenee Peter	Best Research Paper Award	Indian Society of Authors (InSA), New Delhi, 2015
Dr. Jenee Peter	Travel Grant to get trained at Mindanao Peace building Institute, Philippines, 2015	United Board for Christian Higher Education in Asia, 2015
Dr. Jenee Peter	Most interactive participant Award at the International Camp, Unika Soegijapranata University, Indonesia	-do-, 2012
Dr. Jenee Peter	Travel Grant to attend Conference in Indonesia	-do- ,2012

24. List of eminent academicians and scientists /visitors to the department : Prof. Rajan Gurukkal, IISC, Bangalore
Memorial Lectures of the Department are held by Eminent Historians. (Listed below)

Name	Resource Person	Year
A K Baby Memorial Lecture	Dr. Sunil P. Elayidam	2011
A K Baby Memorial Lecture	Dr. Susan Thomas	2012
A K Baby Memorial Lecture	Dr. S. Raju	2013
A K Baby Memorial Lecture	Dr. M. S. S. Pandyan	2014
A K Baby Memorial Lecture	Prof. Mahalakshmi	2015

Name	Resource Person	Year
First Archaeology Lecture Series	Dr. Shinu Anna Abraham	2012
Second Archaeology Lecture Series	Dr. Frederico de Romaniz	2013
Third Archaeology Lecture Series	Prof. K. Krishnan	2014
Fourth Archaeology Lecture Series	Dr. V. T. Padmaja	2015

25. Seminars/Conferences/Workshops organized & the source of funding:

Name	Year	Funding Agency
Workshop on Rock Art and allied disciplines in Kerala	2014	Indira Gandhi National Centre for the Arts, Ministry of Culture. Government of India
Swami Vivekananda and	2014	UGC

Beyond		

26. Student profile programme /course wise : B.A. History

Year	Entry (Boys)	Entry (Girls)	Exit (Boys)	Exit (Girls)	Dropouts
2011 -14	21	19	20	18	2
2012 -15	14	16	14	15	1
2013 -16	10	21	6	19	6

M.A. History

Year	Entry (Boys)	Entry (Girls)	Exit (Boys)	Exit (Girls)	Dropouts
2011 -14	3	14	3	14	0
2012 -15	3	15	3	15	0
2013 -16	2	16	2	16	0

27. Catering diversity of Students :

- Promotion of interdisciplinary research among PG students, especially for taking problems for their dissertations
    - Field Activities for UG students
    - Laboratory and practical sessions for Diploma in Archaeology and Museology
    - IT enabled learning for PG students
    - Association activities to cater the varied talents of the students
    - Remedial classes arranged for weak students by the concerned subject teachers
    - Students encouraged and facilitated to attend national and international Seminars
    - Students admitted to *Walk with a Scholar* programme and Scholar Support Programme for academic mentoring at UG level
    - One student went for Student Exchange Programme to ICU, Japan (Rahul R.)
    - Tutorial sessions are conducted.

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc. : UGC JRF – 3 (2011-15)
UGC NET –3 (2011-15)
Gate – 1 (2011-2015)

29. Student progression :

30. Details of Infrastructural facilities

a) Library : 730 books in the Dept. library
b) Internet facilities for Staff & Students : Two desktop Computers with internet connection
c) Class rooms with ICT facility : Nil
d) Laboratories : N A

31. Number of students receiving financial assistance from college, university, government or other agencies: 10 students

32. Details on student enrichment programmes (special lectures /workshops /seminar) with external experts : Special Lectures given to students by eminent scholars

Remedial teaching to improve student quality
Orientation for First year UG and PG students.

33. Teaching methods adopted to improve student learning : Peer Teaching, Group Discussions

- Academic Calendar as per the University norms and schedules are followed for teaching learning process.
- Conducting book and research paper discussions for M.A students to enhance their research ability.
- Debates on socially relevant issues and discussion based on that involving teachers, PG and UG students of the department and even other.
- Periodical evaluation of the teaching learning process and assessment of student progression through internal assessments and seminars.
- Interactive sessions make the process more students centric. Remedial and tutorial sessions are held to enable students to speak out.
- Open course offered to reach out to different category of students. Student involved in field activities to ensure learning through doing. Interest in the subject increased through direct involvement in conduct of seminars and self-learning.
- Online facilities including e-books and open educational resources are being used. Websites are referred to compliment books.
- General as well as Department library facilities are utilized to enhance the quality of the teaching learning process. Students facilitated to visit historical sites of relevance to enable visual learning. Archival facilities utilized for quality enhancement.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Prof. Suja K Sam

- Coordinator Advanced Diploma In Archaeology and Museology 2011-14
- Staff Council Member 2011 -14

Prof. Annie Jose

- Coordinator Advanced Diploma In Archaeology and Museology 2014-16
- Staff Council Member 2014-16

Dr. Sebastian Joseph

- Walk With the Scholar Program Coordinator 2014-16,
- Staff Advisor for the College Magazine for 2013-14
- Resource person for history research methodology classes at various colleges in Kerala.
- Coordinator, Ph.D (Social Science) Course Work Programme
- Convenor, Research Forum 2015 to present
- Mentor, Higher Secondary Teachers, Kerala Government

Ms. Juby John

- Main Warden, Ladies Hotel 2011-12
- Staff Secretary, Dept of History
- Member Religious Committee 2013-16

Ms. Tresa Divya T.J. –

- Resource person for 10th students orientation organized by Kerala Sastra Sahitya Parishad 2011

- Resource person of the environment sustainable development training session for Bala Sahitya Sangham conducted for Lower Primary students at Govt School, Veliyathunadu
- Staff Advisor for *Midippu*, a voluntary organization for the girl students of the college which engages critical mentoring and thought processing on the position of women in the country.
- Staff Advisor of College Magazine 2015-16
- Website Coordinator of the Department 2015-16
- Staff Advisor Sabdham Kala Samskarika Vedhi (cultural Organisation) 2013-14
- Taken class for senior citizens Association in Chacko Homes, Aluva about perspectives on History Narrations.

Dr. Jenee Peter

- Dr. Jenee Peter -2012-14, associated with Ford pathways programme, U. C. College
- Dr. Jenee Peter -In 2013-15, associated with Handloom promotion department, Government of Kerala in the one day awareness seminar held in the college for the NSS students in December 2013
- Handloom promotion activities in association with NSS, U.C College Unit and Khadi unit at Kunnukara, December 2014
- State Coordinator, World of Rock art Exhibition, Indira Gandhi national entre for Arts, Delhi, in Kerlaa October 2014
- Mentor, International Service Learning Programme of College In 2012-13, 2013-14, 2014-15, 2015-16
- Joint Coordinator, Advanced Diploma in Archaeology & Museology 2011-16
- Staff in charge, U.CC Archaeological Museum, June 2010 onwards
- YMCA Summer Coaching Camp, Aluva Rural : Resource person May 2013,
- YMCA Summer Coaching Camp, Aluva Rural : Resource person, May 2014
- Led a training session for school students as part of the Students Learning and Training on Environment (SLATE) programme organized by Paristhithi Samrakshana Sangham at Islamic Higher Secondary School, Aluva on 11 July 2015.
- Website Committee of College member- 2013onwards,
- College PTA Executive Committee member- 2011-12, 2014-15
- Acquire Scholarship Programme, Government of Kerala- Mentor 2011-13

Dr. Twincy Varghese

- Website Coordinator of the Department for 2014-15
- IQAC Coordinator of the Department for 2015-present
- Main Warden for the Ladies Hostel of the College 2012-16
- College Religious Committee Member. 2012-16

DEPARTMENT OF BOTANY

1. Name of the Department : Botany

2. Year of Establishment : 1926

3. Names of Programmes /Courses offered : B. Sc. Botany, M. Sc. Botany and Ph.D. in Botany

4. Names of Interdisciplinary courses and the Departments/units involved : The Department offers open course (Horticulture and Nursery Management) for fifth semester CBCSS undergraduate students of the College.

5. Annual/ semester/choice based credit system : The Choice Based Credit and Semester System (CBCSS) of Mahatma Gandhi University for UG Botany programme (6 semesters)

The Post Graduate Credit and Semester System (PGCSS) of Mahatma Gandhi University for PG Botany programme (4 semesters).

6. Participation of the department in the courses offered by other Departments : Nil

7. Courses in collaboration with other universities industries, foreign institutions, etc. : Nil

8. Details of courses/programmes discontinued (if any) with reasons : Nil

9. Number of teaching posts : 8

Post	**Sanctioned**	**Filled**
Professors	Nil	Nil
Associate Professors	Nil	Nil
Assistant Professors	8	7

10. Faculty profile with name, qualification, designation, specialization, (D.Sc. /D.Litt. /Ph.D. / M. Phil. etc.)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph. D. Students guided - last 4 years

Dr. Thara K. Simon	M.Sc. Ph.D.	Assoc. Prof.	Plant Taxonomy	22	
Dr. David Saj Mathew	M.Sc. Ph.D.	Assoc. Prof. and Head	Plant Pathology	22	
Dr. P.Thomas Mathew	M.Sc. Ph.D.	Assoc. Prof., and Principal	Plant Systematics	20	
Dr. Manju M. George	M.Sc. Ph.D.	Assist. Prof.	Plant Biotechnology	11	
Dr. Anil Kumar M.	M.Sc. Ph.D.	Assis.t Prof.	Biotechnology	10	
Mrs. Anumol Jose	M.Sc. NET	Assist. Prof.	Biotechnology	7	
Dr. Justin R. Nayakam	M.Sc. Ph.D.	Assist. Prof.	Plant Propagation	4	

11. List of senior visiting faculty :

Dr. V.K. Sathish, Director TBGRI Palode	Seminar
Dr. Mohan Kumar Director	Orientation seminar 29/7/2015
Mr. M.R.K Menon	Orientation seminar and soft skill development 30/07/2015

12. Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty : NA

13. Student -Teacher Ratio (Programme wise)

B. Sc. Botany : 30:1

M. Sc. Botany : 3:1

14. Number of academic support staff (technical) and administrative staff :

Sanctioned	4
Filled	3

15. Qualifications of teaching faculty with D. Sc/ D. Litt / Ph. D/ M. Phil / PG.

Name	Qualification
Dr. Thara K. Simon	M.Sc. Ph.D.
Dr. David Saj Mathew	M.Sc. Ph.D.
Dr. P.Thomas Mathew	M.Sc. Ph.D.
Dr. Manju M. George	M.Sc. Ph.D.
Dr. Anil Kumar M.	M.Sc. Ph.D.
Mrs. Anumol Jose	M.Sc. NET
Dr. Justin R. Nayakam	M.Sc. Ph.D.

16. Number of faculty with ongoing projects from National and International funding agencies and grants received

a) National : Five faculties finished Minor Research Projects funded by UGC

b) International : One faculty member has two projects funded by United Board of Christian Higher Education in Asia (UBCHEA)

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received (2011-16)

Name	Topic	Funding Agency	Amount granted in INR
Dr.P M Kuriechen	Histopathological Studies in Some Common Fruity Vegetables	UGC	120,000.00
Dr.Thara K Simon	Phytochemical analysis and DNA sequencing of 2 species of Podostemeacea of Kerala rivers	UGC	120,000.00
Dr.David Saj Mathew	Selection of root rot resistant *Coleus forskohlii* plants	UGC	130,000.00
Dr.Manju M George	Transformation studies in Coleus forskohlii- an important medicinal plant.	UGC	145,000.00
Dr.Manju M George	In vitro studies in *Barlaria lupulina*	UGC	140,000.00
Dr.M Anil Kumar	Phytochemical screening and antimicrobial studies of Simarouba glauca DC	UGC	125,000.00
Dr.M Anil Kumar	Antiinflammatory studies in the leaf extract of Litsea quinqueflora Denns. Suresh	KBC-KSCSTE	19,11,500.00
Dr.Justin R Nayagam	Shaping riverbanks of healthy water and healthy lives	UBCHEA	405,000.00
Dr.Justin R Nayagam	Planning indigenous tree species to re create riverbank beauty	UBCHEA	464,000.00
Dr.Justin R Nayagam	Battering Waves: Local Knowledge Initiative for gathering coastal knowledges – Phase I	UBCHEA	260,000.00
Dr.Justin R Nayagam	Battering Waves: Local Knowledge Initiative for gathering coastal knowledges – Phase II	UBCHEA	325,000.00
Dr.Justin R Nayagam	Eye Openers: Service Learning Initiative with the Blind – Phase I	UBCHEA	520,000.00
Dr.Justin R Nayagam	Eye Openers: Service Learning Initiative with the Blind – Phase II	UBCHEA	585,000.00
Dr.Justin R Nayagam	Orchestrating Lives	UBCHEA	260,000.00
Department Infrastructure Development-DST-FIST (2009) 2012-17		DST	47,00,000.00
	Total		**1,02,10,500.00**

18. Research Centre /facility recognized by the University:

The Department has been recognized as a Research Centre under Mahatma Gandhi University, Kottayam in 1985 onwards, sanction No. Ac/AII/1/504/85dtd 29/10/85.

19. Publications: List attached as annexure I

20. Areas of consultancy and income generated:

Pathological and Taxonomical Flora Identification Service to Public, Farmers and Government Organization are done by the department.

Income Generated - Nil

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards.

a) Nil
b) Nil
c) Dr.Manju M George, Reviewer of the Journal -Plant Cell Tissue and Organ Culture.
d) Dr.M Anilkumar, Reviewer of the Journal -Plant Cell Tissue and Organ Culture.
e) Dr. Justin R. Nayagam: Reviewer International Journal of Agricultural Research, Sustainability and Food Sufficiency (IJARSFS)

22. Student projects Nil

a) Percentage of students who have done in-house projects including inter departmental /programme:
- UG - in house project 100%
- PG - in house project 100%

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies: nil

23. **Awards / Recognitions received by students:**

Academic
International Recognition: Ms.Kalyani Krishna (2013-15) Received DAAD scholarship and is presently pursuing PhD in Plant Sciences at Free University, Berlin, Germany

University: **Nil**
Awards received by Teachers
IFABL (International Forum for Agriculture, Biology and Life Sciences) 2016, Kurume, Japan: Outstanding Paper Award – Dr. Justin R. Nayagam

24. List of eminent academicians and scientists / visitors to the Department
International Nil
National

25. Seminars/ Conferences/Workshops organized and, the source of funding: List attached as annexure II

26. Student profile programme/course wise:
B. Sc. Botany

Name of the Course/programme	Applications received (in Management quota alone)	Selected (in Management quota alone)	Enrolled (Total)		Pass percentage
			Male	Female	
2011	24	6		6	88.5
2012	21	6		6	96
2013	26	6		6	79
2014	19	6		6	93
2015	35	6		6	88.5

M. Sc. Botany

Name of the Course/programme	Applications received (in Management quota alone)	Selected (in Management quota alone)	Enrolled (Total)		Pass percentage
			Male	Female	
2011	9	2		2	75
2012	9	2		2	92
2013	10	2		2	92
2014	7	2		2	53
2015	11	2		2	83

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other states	% of students from abroad
B.Sc.	99	1	nil
M.Sc.	99	1	nil

Number of SC/ST and OBC students:

Name of the Course	2016		2015		2014		2013		2012		2011	
	SC/ST	OBC	SC/ST	OBC	SC/ST	OBC	SC/ST	OBC	SC/ST	OBC	SC/ST	OBC
B. Sc.	8	19	6	19	7	18	7	13	6	20	5	17
M. Sc.	2	6	3	4	2	8	2	7	2	8	3	7

28. No. of students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc

UGC – JRF : 02
UGC – NET : 04

29. Student progression

Student Progression	**Against % enrolled**
UG to PG	30%
PG to M. Phil	8.3%
PG to Ph.D	3%
Ph.D. to PDF	-
Employed	
Campus Selection	ASAP - 1.5% CIAL - 2%
Other than campus recruitment	45%
Entrepreneurship / Self-employment	10%

30. Details of infrastructural facilities

a) Department library with computerized lending system –500 books & journals- (one online Journal)

b) Computer & Internet facility – 17 desktops and 03 laptops with Wi-Fi facility.
c) Class rooms with ICT facility – One
d) Laboratories – One for Under-graduate and two for Post-graduate students.
e) Instrumentation room (DTS- FIST) 01
f) Tissue Culture Lab 01
g) Cell culture Lab 01
h) Research Lab 01

31. Number of students receiving financial assistance from college, university, government and other agencies
1) E grants

Year	No. of Students
2010-2011	13
2011-2012	19
2012-2013	15
2013-2014	21
2014-2015	20

- K u w ait Alumni - 1
- UCCANA – 8
- Kano Yamomoto – 8
- Liberty & Trinity – 4
- Scranton - 1
- Mrs. Sosamma Philipose endowment scholarship (One Lakh Year for 5 student in each year and for study tour)

32. Details on student enrichment programmes (special lectures/ workshops/ seminar) with external experts
International : Nil
National : Walk with Scholar and student support program

33. Teaching methods adopted to improve student learning
Field visits
Organizing seminars by eminent persons
ICT enabled class room Teaching

34. Participation in Institutional Social Responsibility (ISR)
and Extension activities. : Nil

35. SWOC analysis of the department and future plans.
Strengths:
- Faculty with diverse area of specialization in Plant Science
- Well-equipped laboratory for molecular science research
- Well maintained Botanical garden , Arboretum and field study area
- Herbarium Collection

Weaknesses:
-Inadequate space for expansion

Opportunities:

- Facilities available for Industrial floriculture.
- Facilities available for the consultancy services.
- Referral Herbarium.
- Faculty and facilities available for training programmes for Research scholars of life sciences.
- Faculty and Facilities available for training programmes for High School and Higher Secondary teachers in new innovations in Plant Science.

Challenges:

First generation learning student in UG Level.
Socially and financial backward student in UG Level

Future Plans:

- Departmental project with an interdisciplinary approach
- Workshop/ training for college/ Higher secondary teachers and research scholars
- Enabling ICT facility to all class rooms
- Start a journal club for students and faculty and Research scholars
- Undertaking major projects in frontier areas of plant science research and produce scientific papers in peer reviewed journals.
- Make the department as an advance research facility center for molecular biology research with DST- FIST support.
- Training center for students and faculty of schools and colleges, in advanced biological techniques.
- Expands existing and new collaborations with Biotechnology and Ayurvedic medicine industries.
- Exist as a consultancy center for plant Systematics.

Mission:

"To preserve and disseminate the seeds of excellence and to train the next generation plant scientists".

Annexure I

LIST OF PUBLICATIONS

Number of papers published in peer reviewed journals (national /international) by faculty and students

Conference Proceedings : 3

Publications in International Journal: 14

Publications in National Journals - Annexure I A

Chapter in Books: 5

Books with ISBN/ISSN numbers with details of publishers: 2

i. PLANTATION TECHNOLOGY FOR SEVEN TROPICAL TREE SPECIES. March 2015. Pages 464. Published by Lambert Academic Publishers, Germany. ISBN -13: 978-3-659-40484-9
ii. Compendium on *Costus Pictus*: A Medicinal Spiral Ginger. Pages 64. February 2015. Published by Lambert Academic Publishers, Germany. ISBN 13: 978-3-659-62481-0.

Paper Presentations by students: Nil

Annexure II

LIST OF SEMINARS, CONFERENCES, AND WORKSHOPS

National Seminar :

UGC National Seminar on "Recent trends and Advances in Plant Sciences research" march 9-10, 2016.

Workshop:

Hands-on–training for High Schooll teacher on Microscopes and 'Microbila world' conducted by the department in collaboration with Kerala Sasthra Sahithya Parishith.

Annexure - IA

Dr. Manju M. George :

1. **Manju M George** and Subramanian R.B (2016) Callus induction and plant regeneration in aromatic grasses –Cymbopogon flexuosus,C.citratus and Vetiveria zizanioides. Proceedings- national seminar on 'Recent trends and advances in plant sciences' Union Christian College, Aluva. March 9-10. ISBN-978-93-5267-163-2

2. Manju M George (2016) Transformation studies in Coleus forskohlii an important medicinal plant. Proceedings In national seminar on 'Recent trends and advances in plant sciences' Union Christian College, Aluva. March 9-10. ISBN-978-93-5267-163-2

Dr.M Anilkumar

1. M.Anilkumar,K.R. Bindhu, A.Sneha Saj & E. I. Anila. Enhanced biocompatibility of ZnS:Mn quantum dots encapsulated with *Aloe vera* extract for therapeutic applications Chin. Phys. B (An IOP Journal) Vol. 25, No. 8 (2016) 088103

2.Anilkumar. M 1, and Jibin Johny. Evaluation of in vitro anti-inflammatory activity of the methanolic extract of *Litsea quinqueflora* (Dennst.) Suresh. *IOSR Journal of Pharmacy and Biological Sciences (IOSR-JPBS) e-ISSN: 2278-3008, p-ISSN:2319-7676. Volume 10, Issue 2 Ver. II (Mar -Apr. 2015), PP 32-36*

3.Arun O.S. and **M. Anilkumar** Bioactivity studies in *Simarouba glauca* DC. Proc. 26th Kerala Science Congress. January 2014.

4,Jibin Johny and **M.Anilkumar**. In vitro anti-inflammatory studies on Litsea quinqueflora Dennst Suresh using membrane stabilization method. Proc. 26th Kerala Science Congress. January 2014.

5.**M. Anilkumar** and Jibin Johny. In vitro anti-inflammatory activity of the methanolic extract of *Litsea quinqueflora* Dennst. (Suresh). Proc. First internatioinal and third national conference on Biotechnology, bioinformatics and bioengineering. Society for Applied Biotechnology . 2013; pp.117

6.P.T. Pratheesh and **M. Anil kumar**. In vitro flowering in *Rosa indica*. International journal of Biological sciences, 2012; Vol.1(2); 196-200.

Ms. Anumol Jose

1. Effect of matrix composition on differentiation of nestin-positive neural progenitors from circulation into neurons **Anumol Jose** and Lissy K Krishnan Journal of Neural Engineering, 7, 036009,2010 (doi:10.1088/1741-2560/7/3/036009)

2. Standardization of an Extracellular Matrix Composition for Attachment of circulating prognitor cells and differntiation in to neurons . **Anumol Jose** & Lissy. K. KrishnanTERMIS- NA conference held at Toronto in June12-16, 2007 (poster presentation)
3. Assessing function in a thoracic contusion model of spinal cord injury. J.P.Griffin, A. Toft , **A. Jose**, & J.S. Riddell. IMB symposium, University of Glasgow, UK , March 28- 31 2010(poster presentation)
4. Extraction and Evaluation of Anthocyanin fromDioscorea Alata (L.) for Its Application as a Natural Food Colour. Anumol Jose Rafiya Muhammed, The International Journal Of Science & Technoledge (ISSN 2321 – 919X) Vol 3 Issue 9 September, 2015
5. Extraction and Evaluation of an Anthocyanin Rich, Food Colourant from Fruits of Syzygium cumini (L.) Skeels Rafiya Muhammed and Anumol Jose J. Chem. Bio. Phy. Sci. Sec. B, November 2015 – January 2016; Vol.6 No.1; 204-213.
6. A Comparative study on the nutritional quality of horse gram and other selected Pulses Kalyani Krishna and Anumol Jose, International Journal of Chemistry and Pharmaceutical Sciences. IJCPS, 2015, 3(11): 2099–2103
7. Evaluation of a treadmill based gait analysis system for functional assessment of rodent spinal cord injury models. **A. Jose**, J.P. Griffin, A. Toft & J.S. Riddell. 40th annual meeting of Neuroscience federation (SFN) neuroscience 2010 which will be held at San Diago, U.S.A in Nov 13-17,2010 (accepted for poster presentation)

Dr. Justin R Nayagam

1. Justin R. Nayagam, 2015. Sprouting Value Index: A New Concept in Evaluation of Rooting of Cuttings. *World Journal of Agricultural Research, Vol. 3, No. 4, 139-142*. Available online at http://pubs.sciepub.com/wjar/3/4/4. © Science and Education Publishing DOI:10.12691/wjar-3-4-4. 2.

2.Justin R Nayagam, 2015. Ergastic Crystals In Identification Of Costus Pictus: A Medicinal Spiral Ginger In Herbal Medicine. *Journal of Experimental Biology and Agricultural Sciences*, August - 2015; Volume – 3(4). 378.- 383 DOI: http://dx.doi.org/10.18006/2015.3(4).

3.Justin R Nayagam and K.I. Mani Varghese, 2015. IBA induced Rooting Characteristics in Golden Shower Tree: Evaluation using SVI Concept. *International Journal of Agriculture and Forestry* p-ISSN: 2165-882X e-ISSN: 2165-88462015; 5(5): 287-290 doi:10.5923/j.ijaf.20150505.04

4.Justin R. Nayagam, 2015. Sprouting Value Index: A New Concept in Vegetative Propagation Trials Using *Costus Pictus. Modern Agricultural Science and Technology*. Volume 1, No. 1, pp. 40-45. Doi: 10.15341/mast(2375-9402)/01.01.2015/004.

5.Justin R Nayagam, and K. I. Mani Varghese, 2015. Sprouting Value Index: A Mathematical Approach for Evaluation of Vegetative Propagation in Tree Species. *American Journal of Environmental Protection*. Volume 4, Issue 6, pp: 271-274, DOI: 10.11648/j.ajep.20150406.11

6.Justin R. Nayagam and Mani Varghese, K. I. 2015. Sprouting Value Index: A Mathematical Approach For Evaluation Of Rooting Media Efficiency. *International Journal of Current Agricultural Research*. Vol. 4, No. 10, PP 145-148.

7. Justin R. Nayagam, Mani Varghese K. I. 2015. Germination Performance in Sowing Media and Root Trainer Performance of Indian Kino Tree. International Journal of Agriculture Innovations and Research: Vol. 4, (3) 469 – 474.
8. Justin R. Nayagam. 2015. Sprouting Value Index: A Mathematical Evaluation Of IBA Induced Rooting Characteristics In Lemon Tree Stem Cuttings. Journal of Multidisciplinary Engineering Science and Technology (JMEST) ISSN: 3159- 0040 Vol. 2 Issue 11, November – 2015.
9. Justin R. Nayagam. 2015. IBA Induced Rooting Characteristics in Night Jasmine Plant: Evaluation Using SVI Concept. RA Journal of Applied Research Volume- 1, Issue- 11,Pages-383-388, Dec-2015. ISSN (e): 2394-6709.
10. Justin R. Nayagam and Mani Varghese K. I. 2015. Germination Pattern and Root Trainer Performance of *Mimusops elengi* L. South Asian Journal of Experimental Biology; 5 (3): 94-100; 2015.
11. Justin R. Nayagam and Mani Varghese K. I. 2015. Germination Pattern and Root Trainer Performance of *Terminalia arjuna: A Troublesome Tree Species in Plantation Trials*. Open Access Library Journal; 2: e2167.
12. Justin R. Nayagam, 2015. IBA induced Rooting Characteristics in Coral Bush: Evaluation Using SVI Concept. *International Journal of Current Research*. Volume 8(1), pp. 24964-24967
13. Justin R. Nayagam, 2016. IBA induced Rooting Characteristics in Marathi Moggu Stem Cuttings: Evaluation Using SVI Concept. *International Journal of Current Microbiology and Applied Sciences.* Volume 5(1): 734-739. http://dx.doi.org/10.20546/ijcmas.2016.501.074
14. Justin R Nayagam and Anitta Roy 2016. Economically Important Plant Diversity along Selected Beach-sides of Central Kerala: Extending Cultivation to Beach-sides of Indian Peninsula. Journal of Plant Health and Technology. Volume1(1): JPHT-1-001.

Research Paper Presentations

1. Presented a paper entitled “Sprouting Value Index: A Mathematical Approach for Evaluation of Vegetative Propagation in Tree Species” in the IFABL (International Forum: Agriculture, Biology and Life Sciences) 2016, held at Kurume, Japan, 5-8 August 2016.
2. Presented a paper entitled “Experimental Service-Learning for Blind Student Development through Regional Partnership” in the International Service – Learning Symposium at Lingnan University, Hong Kong, March 11 – 12, 2016.
3. Presented a paper entitled “Stewardship of Water through Ensuring Sustainable Development of River Banks” in the 4th Asia Pacific Regional Conference on Service – Learning, held at Hong Kong and Mainland China, during June 6 – 7, 2013
4. Published and presented a paper entitled Germination characteristics and root-trainer performance of *Saraca asoca* (Roxb.)de. Wilde. in the proceedings of the national seminar on Conservation, Cultivation and Sustainable Utilization of *Saraca asoca* during 16-17 Oct 2007, at Kerala State Forest Research Institute, Peechi, Thrissur.Pp 60-63.
5. Published a paper in the proceedings entitiled “Clonal planting stock preparation for *Pongamia pinnata*: An indigenous tree species of India for canopy building and forest rejuvenation” in the national seminar on biodiversity conservation in protected areas-opportunities and challenges, held on 23-24th Jan 2009, Christ University, Bangalore.Pp 12-15.
6. Presented and published a paper entitled “Rooting characteristics in *Saraca asoca*: the technology for mass clonal propagule preparation using exogenous application of auxin”. Abtracts of Swedeshi Science Congress 2010. pp 63.

DEPARTMENT OF CHEMISTRY

1. Name of the Department : Department of Chemistry
2. Year Established : 1926
3. Names of the Programmes/Courses offered : B. Sc. Chemistry, M. Sc. Chemistry, Ph. D.; and Diploma Course in material science
4. Names of inter disciplinary courses and the departments /Units involved :
   - Diploma in Environmental Studies (Certificate Course jointly offered by Department of Chemistry, Botany and Zoology)
   - The Department offers open course (Food Science for fifth semester CBCSS Undergraduate students of the College
5. Annual/ semester/choice based credit system:
   - The Choice Based Credit and Semester System (CBCSS) of Mahatma Gandhi University for the B. Sc. Chemistry (6 semesters)
   - The Post Graduate Credit and Semester System (PGCSS) of Mahatma Gandhi University for the M. Sc. Chemistry (4 semesters).
6. Participation of the department in the courses offered by other departments: : The Department offers a Complimentary course for B. Sc. Physics, B. Sc. Zoology and B. Sc. Botany programmes, and an Open course (Food Science) for fifth semester CBCSS Undergraduate students of the College.
7. Courses in collaboration with other universities, industries, foreign institutions: : Certificate course in Environmental studies sponsored by UBCHEA (United Board of Christian Higher Education Asia)
8. Details of courses/ programmes discontinued (if any) with reasons : Nil
9. Number of teaching posts :

Name of Post	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	3	3
Asst. Professors	6	4

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.)

	Name	Qualification	Designation	Specialization	Teaching Exp.	No. of h. D. Students guided - last 4 years
1.	Dr. Mary Kurien	Ph. D, M. Sc.	Assoc. Prof.	Polymer Chemistry	33	
2.	Dr. Sheelakumari	Ph. D, M.	Assoc.	Polymer	33	

	Isacc	Phil., M. Sc	Prof.	Chemistry		
3.	Dr. P.V Sreenivasan	Ph. D, M. Phil., M. Sc	Assoc. Prof.	Polymer Chemistry	32	
4.	Dr. Jenish Paul	M. Sc, B. Ed, Ph. D	Assist. Prof.	Polymer Chemistry	5	
5.	Ms. Smitha Roy	M. Sc, B. Ed.	Assist. Prof.	--	4	
6.	Ms. Minu Joys	M. Sc.	Assist. Prof.	--	4	
7.	Dr. Simi Pushpan	P. D. F, Ph. D, M. Sc.	Assist. Prof.	Bio-Inorganic Chemistry	3	
8.	Saritha Gopal	M. Sc.	Guest Lecturer	--		
9	Parvathy T S	M. Sc.	Guest Lecturer	--		

11. List of senior visiting faculty : Dr. C. G. Ramankutty
12. Percentage of lectures delivered and practical classes handled by temporary faculty (programme wise) : UG – Theory : 56%
UG – Practical : 33%
PG – Theory : 0%
PG Practical : 0%
13. Student - Teacher Ratio (programme wise) : B. Sc. : 18:1
M. Sc. : 3:1
14. Number of academic support staff (technical) and administrative staff sanctioned and filled `:

Technical Staff (Lab Assts)		Administrative Staff (store keeper)	
Sanctioned	Filled	Sanctioned	Filled
05	04	01	01

15. Qualifications of teaching faculty with DSC / DLitt/ PhD / MPhil/ PG.

	Name	**Qualification**
1.	Dr. Mary Kurien	Ph. D, M. Sc
2.	Dr. Sheelakumari Isacc	Ph. D, M. Phil, M. Sc
3.	Dr. P.V Sreenivasan	Ph. D, M. Phil, M. Sc
4.	Mr. Jenish Paul	M. Sc, B. Ed, Ph. D
5.	Ms. Smitha Roy	M. Sc, B. Ed, (doing Ph. D)
6.	Ms. Minu Joys	M. Sc, (doing Ph. D)
7.	Dr. Simi Pushpan	P. D. F, Ph. D, M. Sc.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : Major Research Project: 0
Minor Research Project: 3
17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:

Sl. No	Name of the Investigator	Title of the Project	Amount	Funding Agency
1.	Dr. A. Benny Cherian	Synthesis of toughened unsaturated polyester resin	Rs.1,30,000	Completed
2	Dr. K. P. Unnikrishnan	Development of particulate filled epoxy resin	Rs.1,40,000	Completed
3	Dr. P. V. Sreenivasan	Preparation of super tough thermoplastic from polystyrene and powdered nitrile rubber	Rs.1,45,000	Completed

4	Mr. Jenish Paul	Glass fibre reinforced epopxidized siloxane modified epoxy system for high strength applications	Rs.1,45,000	Ongoing
5	Ms. Smitha Roy	Isolation of chitin and its interaction studies with organic dyes (Computational and Experimental)	Rs.1,90,000	Ongoing
6	Dr. Simi Pushpan K.	Synthesis and characterization of selected privileged structure bearing Dipyrromethanes.	Rs.5,00,000	Ongoing

18. Research Centre/ facility recognized by the University : Mahatma Gandhi University Research Centre in Chemistry

19. Publications :

a) Publications per Faculty : Separate list Attached.

b) Number of papers published in peer reviewed journals (national/ international) by faculty and students :

c)Number of publications listed in International Database Monographs Chapter in Books Books Edited Books with ISBN/ISSN numbers with details of publishers Citation Index SNIP SJR Impact factor h-index	: 	List attached as annexure I

20. Areas of consultancy and income generated : Provides UV& IR facilities for research; Generated an income of Rs. 3,000/-

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards: Nil

22. Student projects

a. Percentage of students who have done in-house projects including interdepartmental/ programme — B. Sc. Chemistry : 100%; M. Sc. Chemistry: 100%

b. Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies — B. Sc. Chemistry : 0%; M. Sc. Chemistry: 0%

23 Awards/ Recognitions received by faculty and students — List attached as annexure II

24 List of eminent academicians and scientists /visitors to the department

List attached as annexure III

25 Seminars/ Conferences/ Workshops organized & the source of funding

a) National

- Organized a UGC Sponsored national conference NCAMS 2012 on advances in materials science: Macro to Nano scale on 16th and 17th March 2012. It was inaugurated by Dr. Ramachandran Thekkedath . Hon'ble Vise Chancellor, Cochin University of Science and technology.
- Organising Prof .Anatharaman memorial and Dr. A.M. Chacko endowment seminars annually.

b) International: Nil

26 Student profile: programme / course-wise

Name of the Course/ programme	Enrolled	Pass percentage
B. Sc. Chemistry		
2015	42	84
2014	37	76
2013	41	81
2012	40	93
2011	42	82
M. Sc. Chemistry		
2015	13	Result Awaiting
2014	13	50
2013	13	75
2012	12	64
2011	12	73

27 Diversity of Students

100% students from the home state

% of SC/ ST students:					
Name of the Course	2015	2014	2013	2012	2011
B. Sc.	19%	17%	17%	6%	18%
M. Sc.	30%	30%	23%	23%	23%

28 How many students have cleared national and state competitive examinations such as NET, SLET, GATE Civil services, Defence services, etc.

JRF: 4
NET: 3

29 Student progression

Student progression	Against % enrolled
UG to PG	47.8%
PG to M. Phil	
PG to Ph. D	10.5%
Ph. D to Post-Doctoral	
Employed	

		•Campus selection •Other than campus recruitment Entrepreneurship/Self-employment
30	Details of Infrastructural facilities	
	1. Library	Department of Chemistry has a reference library having 250 books and 700 journals. In addition to this 800 books has been purchased with the grants received from UGC Minor Research Projects, DST-FIST
	2. Internet facilities for Staff & Students	Computing facilities include 16 multimedia computers,3 laptops with broad band internet connection-Operating systems, Windows 2000 and 2007 professional and Windows Xp professional
	3. Class rooms with ICT facility	01
	4. Laboratories	The Department has five laboratories; two for postgraduates, one for Research, and two for undergraduates. The postgraduate and undergraduate laboratories have all the needed facilities like electronic balances (with accuracy 0.1 mg and I mg), fume hoods, digital potentiometer, digital conductometer, digital colorimeter, refractometer, polarimeter, pH meter, melting point apparatus, vacuum pump, centrifuge, air oven etc. The research lab has various equipments like Digital Potentiometer, Digital Conductometer, Digital Colorimeter, Refractometer, Thermostat, Muffle Furnace, Electronic balances (with accuracy 0.1 mg and 1 mg), Microwave Oven, Rotary Shaker, Rotary Evaporator, UTM, FT- IR Spectophotometer, UV Spectrophotometer, Flame Photometer , Sonicator, Water analyser etc.
31	Number of students receiving financial assistance from college, university, government or other agencies	

SI No.	Scholarship	2015	2014	2013	2012	2011
1	INSPIRE scholarship.	3	0	2		
2	Prof . T.R Anatharaman and Mrs Sebhambal Anatharaman scholarship of excellence	8	8	8	8	8
3	Dr. A.M Chacko	2	2	2	2	2

	Endowment prize			
4	Trinity Scholarship	1	3	2
5	UCCAANA (Alumni Association North America)	2	3	2
6	Kuwait Alumni	2	1	
7	Abraham Kulangara			4
8	Scranton	1	2	

32 Details on student enrichment programmes (special lectures /workshops /seminar) with external experts

33 Teaching methods adopted to improve student learning

- Assignments and Seminars were given to students in topics related to
  Chemistry in everyday life (eg: NMR in Medical Diagnosis, elements in
  human body, pesticides and insecticides in fruits and vegetables etc.
- Computer aided programs like Chemsketch, Gamess etc. were used for
  M.Sc. Organic and physical chemistry practical.
- Spreadsheet was used for B.Sc. chemistry practical
- Special career oriented classes were given to B.Sc. students
- Remedial coaching was given to B.Sc. students in Zoology and Physics

34 Participation in Institutional Social Responsibility (ISR) and Extension activities

- A talk on topic Science Research Flexibility and Adaptability by Dr. T.J Thomas professor, medicine was given on august 9 2012
- A talk on motivation by Joshi Paul (HDFC area zonal manager for B. Sc chemistry students on july 17 ,2012
- A talk on methodology of science by Dr. K.P. Unnikrishnan on 22-8-2012
- Pro. T. Anatharaman memorial & Dr. A. M. Chacko endowment seminars conducted on 15/2/2013.
- Dr. T. A. Ramanaayanan on carbon corrosion – corrosion process at high temperature
- Dr. K. PIUS , Professor , M. G. University on introduction to computational chemistry .
- Vijil .P. Wilson of VI sem B.A English and Hema K.H of IV Sem B. Sc physics were the winners
- Chemistry association conducted a departmental chemistry Quiz on 24-1-2012. Amrutha .B and Shahana V.S of III. B. Sc Chemistry is elected for participating in intercollegiate quiz competition
- Inter-collegiate and inter-School Chemistry Quiz competition were conducted on 28-01-2012.
- Amrutha. B and Shahana V.S of U. C. College won first prize in

inter-collegiate competition

- Raida Davis & Anjaly G. Menon of Holy Ghost C.G.H.S.S Thottakkattukara won first prize in inter school completion
- Chemistry day and concluding ceremony of chemistry association was conducted on 10-3 -2012
- Organized a UGC. Sponsored national conference NCAMS 2012 on advances in materials science: Macro to Nano scale on 16th and 17th March 2012 . I was inaugurated by Dr. Ramachandran Thekkedath . Hon'ble vise chancellor Cochin University of Science and technology
- The resource persons were
  - **Dr. Eby Thomas Thachil** Professor & Head , Polymer Science & Rubber Technology, CUSAT Cochin
  - **Dr. C. Gouri** Scientist SG LFCD-ESG VSSC, Trivandrum
  - **Dr. C. P. Reghunathan Nair** Scientist G, Group Director, Polymers & Special Chemicals Division VSSC, Trivandrum
  - **Dr. K. R. Dayas** Director, Centre for Materials for Electronics Technology (C-MET), Trichur
  - **Dr. Rani Joseph** Professor, Polymer Science & Rubber Technology, CUSAT, Kochi
  - **Dr. Deepthy Menon** Associate Professor, Amrita Centre for Nanosciences and Molecular Medicine, Kochi
  - **Dr. Sabu Thomas** Director of School of Chemical Sciences MG University, Kottayam
- Several research scholars from various institution participated in oral and poster research paper presentation competition

35. SWOC Analysis of the department and future plans

Strength of the Department:

- Excellent faculty with four Ph.D holders who are actively involved in
  institutional and social responsibilities
- Recognized research centre of M. G. University
- Well equipped B.Sc. and M.Sc. labs
- Well equipped instrumentation lab with IR and UV spectrum analysis facility
- A Computational Chemistry lab with internet facilities
- Excellent library facilities

Weakness:

- Under utilization of library facilities
- Inadequate fund for extracurricular activities
- Shortage of Lab assistants.

Opportunity:

- Extensive research in fields like Polymer and nano chemistry.
- Add on courses
- Collaboration with National and International Organizations
- Imparting value education

- Utilization of alumni resources
- Minor research projects
- Organize national level seminars annually

Challenges:

- Falling standards of students due to entry level constraints
- Compelled to use hazardous chemicals as per curriculum.
- Value erosion of student community

Future Plans:

- To elevate the Department as the centre of excellence
- Collaboration with industries and research institutes

19. Number of papers published in peer reviewed journals (national /international) by faculty and students –20

Departmental publications & research output

- **Jenish Paul**, A. Benny Cherian, Neethumol Varghese, Manjusha, Eby Thomas Thachil " Synthesis of terminal epoxy functional siloxanes for modification of Diglycidyl ether of Bis-Phenol A" *International Journal of Engineering Sciences & Research Technology* **2015,** *4(1),* 435-444.
- Anusha Mony, Harikrishnan G. Nair, Vinila, V.S., **Sheela Kumari Isacc**, Anitha S. Nair, Jayakumari Isacc " Investigation of the absorption coefficient, refractive index, energy bandgap, dispersion energy urbach energy of nanocrystalline ceramic superconductor YSrBiCuO" *International Journal of recent scientific research* **2015**, 6(*1*), 2438-2444
- Manjusha Hariharan, Neethumol Varghese, **Dr. A. Benny Cherian, Dr. P.V. Sreenivasan, Jenish Paul**, Asmy Antony. K.A, "*Synthesis and Characterisation of $CaCO_3$ (Calcite) Nano particles from cockle shells Using Chitosan as Precursor", International Journal of Scientific and Research Publications (IJSRP), **2014**, 4(10)*
- Surya A. Mary, Bindu G. Nair, Johns Naduvath, G.S. Okram, Stephen K. Remillard, **P.V. Sreenivasan**, Rachel R. Philip, "Highly conductive n and p-type CuInO thin films by reactive evaporation", *Journal of Alloys and Compounds* **2014**, *600*, 159–161
- Vinila, V.S., Anusha Mony, Harikrishnan G. Nair, **Sheela Kumari Isacc**, Anitha S. Nair, Jayakumari Isacc " XRD studies on nanocrystalline ceramic superconductor PbSrCaCuO at different treating Temperatures" , *Crystal Structure theory and applications* **2014,** *3*, 1-9.
- Anusha Mony, **Sheela Kumari Isacc**, Jayakumari Isacc "Bandgap Energy and optical constants of Nanocrystalline Ceramics", *Science and Research* **2014,** *3*, 1451-1456.
- Anusha Mony, Vinila, V.S., **Sheela Kumari Isacc**, Sam Rajan, Jayakumari Isacc " Structural and morphological studies of nanocrystalline ceramic $PbSrBaTiO_6$ at different treating Temperatures, *Journal of Advances in Chemistry* **2014, 1**0, 3303-3313.
- Anusha Mony, Vinila, V.S., Harikrishnan G. Nair, **Sheela Kumari Isacc**, Anitha S. Nair, Jayakumari Isacc " Thermal behavior of nanocrystalline ceramic $PbSrBaTiO_6$", *International Journal of Innovative Science, Engineering and technology* **2014**, *1*, 645-649.
- Vinila, V.S., Reenu Jacob, Anusha Mony, **Sheela Kumari Isacc**, Sam Rajan, Jayakumari Isacc " Ceramic nanocrystalline superconductor GdBaCuO at different treating Temperatures" *Journal of Crystallization Process and Technology* **2014**, *4*, 168-176.
- Anitha S. Nair, Vinila, V.S., **Sheela Kumari Isacc**, Reenu Jacob, Anusha Mony, Jayakumari Isacc "Studies on nanocrystalline ceramic superconductor $LaZrYBaCa_2Cu_3O_{11}$ at three different temperatures: *Journal of Crystallization Process and Technology* **2014**,*4*, 126-133.
- Vinila, V.S., Reenu Jacob, Anusha Mony, **Sheela Kumari Isacc**, Sam Rajan, Jayakumari Isacc " XRD analysis of nanocrystalline ceramic $PbBaTiO_3$" , *Crystal Structure theory and applications* **2014,** *3*, 57-65.

- Neethumol Varghese, Manjusha Hariharan, **Dr. A. Benny Cherian, Dr. P.V. Sreenivasan, Jenish Paul**, Asmy Antony. K.A, "PVA - Assisted Synthesis and Characterization of Nano α -Alumina", *International Journal of Scientific and Research Publications (IJSRP)*, **2014,** *4*(10).
- α-Axis oriented ZnS thin film synthesised by dip coating method K. R. Bindu, **P. V. Sreenivasan** , Arturo I. Martinez , E. I. Anila. J Sol-Gel Sci Technol, DOI 10.1007/s10971-013-3177-4 (2013)B
- "Reactive blending of epoxiresin with epoxidised cresol novolac resin". **Jenish paul, A. Benny Cherian, K.P . Unnikrishanan**, Eby Thomas Thachil. National conference NACMS on advances in materials science: Macro to Nano scale on 16th and 17th March 2012 at U.C . College Aluva.
- Optoelectronic and Thermoelectric properties in Ga Doped ß- PbS2 nanostructured thin films Reference: APSUSC23260 in journal of Applied Surface Science. 258 (2012), pp. 6257-6260
- Evaluation of absorption coefficient of a solution by a simple experimental setup", Deepak.G, Akhildev.C,K. K.Leelamma, Lyjo.K.J, **P V Sreenivasan** and E.I.Anila,;OPTICS'11,International conference,May23-25,2011; NIT, Calicut.
- "Synthesis of pendant epoxy functional polydimethyl siloxane for modification of Diglycidyl Ether of Bis-phenol ". **A Jenish Paul , A. Benny Cherian , K.P.Unnikrishnan** and Eby Thomas Thachil in Advances in Polymer Science and Technology: An International Journal 2011; 1 (2): 22-29
- "Synthesis of pendant epoxy functional polydimethyl siloxane for modification of Diglycidyl Ether of Bis-phenol ". **A Jenish Paul , A. Benny Cherian , K.P.Unnikrishnan** and Eby Thomas Thachil in Advances in Polymer Science and Technology: An International Journal 2011; 1 (2): 22-29

b) Chapter in Books: one

- Dr. P.V. Sreenivasan contributed a chapter in a book titled "Engineering Chemistry and Environmental studies" (2014).

Annexure II

FACULTY

- Dr. Sheela Kumari Isaac has been selected as the member of the 2014 Under Graduate Chemistry board of studies of MG University Kottayam
- Dr. P. V. Sreenivasan has been selected as the subject expert of P.S.C

STUDENTS

- Josemon P. P. of III B.Sc chemistry won bronze medal in net ball in national games 2014
- K. Narayana Menon Memmorial Award for best out going B.Sc final year chemistry studens of 2011 were won by Nagaraj.K and Midhun Mohan .
- Prof. T. R. Anatharaman & Mrs . Seshambal Anatharaman scholarship of excellence were secured by Renjith C ,Aparna. S. Nair,(I B.Sc Chemistry) Venna Gopal , Deepthi Ramesh(II B.Sc Chemistry) Kiran A.G , Basil U(III B.Sc. Chemistry)
- Amrutha. B and Shahana V.S of U.C College won first prize in intercollegiate competition Conducted on 28-01-2012 by U.C .College Aluva
- Rahul K. R. of VI semester B.Sc Chemistry won first prize in clay modeling competition in M. G. University youth festival
- Jithesh .P VI semester B. Sc Chemistry was member in hockey team which won first prize in intercollegiate competition
- Chitra Raj IV semester B. Sc Chemistry was Cricket team captain, member in base ball team south zone which won III prize , member in base ball team who won II prize in intercollegiate , member in soft ball which won I prize in intercollegiate.
- Sanu Varghese of IV semester B. Sc Chemistry member in judo team Which won first prize in M.G. University championship
- Amrutha.B and Shahana V.S of U.C College won first prize in intercollegiate competition conducted on 28-01-2012 by U. C. College Aluva
- Shiyana Rahim, Bony P. Joy and Elsa Susan Kurien (III B.Sc. Chemistry) secured Campus Placement as Project Trainee from Tech Mahindra.
- Anjaly Jose and Ashly George (III B.Sc. Chemistry) secured Campus Placement as Project Trainee from Wipro.
- Josemon P. P (I M.Sc. Chemistry) won Bronze Medal in Net Ball Competition in National Games 2015
- Athira Nair of II B.Sc. Chemistry participated in the Republic Day Parade of 2015 at New Delhi.
- Sanu Varghese (II M.Sc. Chemistry) is selected as Laison officer in National Games 2015.
- Sanu Varghese (II M.Sc. Chemistry) has won II prize in Judo Championship conducted by M.G. University (2014)
- Sanu Varghese (II M.Sc. Chemistry) has won III prize in Judo Championship conducted by M.G. University (2015)
- Josemon P. P (I M.Sc. Chemistry) won I Prize in Net Ball Competition in M.G. University in 2015
- Nasrin Kabir & Anjaly Jose (III B.Sc. Chemistry) won third prize in All Kerala Intercollegiate Quiz competition conducted by Dev Matha College, Kuruvilangad.

- Shiyana Rahim & Reshma Bose (III B.Sc. Chemistry) won First prize in Intercollegiate Chemistry Quiz competition conducted by U. C. College, Aluva.
- Prof. T. R. Anatharaman & Mrs. Seshambal Anatharaman scholarship of excellences awarded to the best student of III B.Sc. Chemistry was secured by Anna Jose
- Prof. T. R. Anatharaman & Mrs. Seshambal Anatharaman scholarship of excellences awarded to the second best student of III B.Sc. Chemistry was secured by Bony P. Joy
- Prof. T. R. Anatharaman & Mrs. Seshambal Anatharaman scholarship of excellences awarded to the students of II B.Sc. Chemistry is secured by Devika T. N and Sruthi Jyothi
- Prof. T. R. Anatharaman & Mrs. Seshambal Anatharaman scholarship of excellences awarded to the students of I B.Sc. Chemistry is secured by Parvathy P. A. and Gopika S. Madhu
- Keerthana G. Menon (I B.Sc. Chemistry), Ragi Raj (I M.Sc. Chemistry) was placed first and second respectively in the Prof. A.M.Chacko Endowement light music competition
- Nasrin Kabir & Anna Jose (III B.Sc. Chemistry) received Inspire Scholarship worth Rs.4 lakhs
- Gopika S Madhu, Amritha P. Sandra, Parvathy P.A., Rineesha N Basheer (I B.Sc. Chemistry) were the recipients of KSCTE Pratibha Scholarship
- Athira P.V (I B.Sc. Chemistry) won 3rd Prize for Long Jump in Annual Sports day held on 27.02.2015
- Basil (I B.Sc. Chemistry) won 1st Prize for 1500m race in Annual Sports day held during the Sports day of UCC
- Keerthana G. Menon (I B.Sc. Chemistry) was selected as a participant of Voice of UCC
- Smrithy, Sadiya C.A, Shabana, Shifana, Amrutha, Anna, Merin, Naeema, Juviya and Keerthana Kaladharan (I B.Sc. Chemistry) secured 1st prize in Oppana Competition held during the Arts Festival of UCC
- Veena Gopal, Anjumol P. Thomas, Soumya K.R., Mariya Kurien, Jisna Varghese, Reshma Prakashan, (I M.Sc. Chemistry) were placed 2nd in the Group dance competition in Gaddhika.
- Chemistry Team comprising of II M.Sc. and IIB.Sc. Students secured 2nd prize for group dance in Keraleeyam held on Nov. 1, 2014.
- Mr.K.Nagaraj of III B.Sc Chemistry attended a project oriented program at JNCASR ,Bangalore.
- Ms.Shahana and Ms.Sreelakshmi of II B.Sc Chemistry were awarded the Scranton Scholarship by the Scranton Women's Leadership Center ,Seoul,S.Korea

DEPARTMENT OF MATHEMATICS

1.	Name of the Department	:	Department of Mathematics
2.	Year Established	:	1923
3.	Names of the Programmes/Courses offered	:	B. Sc. Mathematics, M. Sc. Mathematics, Ph.D in Mathematics
4.	Names of inter disciplinary courses and the departments /Units involved	:	• The Department offers open course Applicable Mathematics for fifth semester CBCSS Undergraduate students of the College •
5.	Annual/ semester/choice based credit system:	:	• The Choice Based Credit and Semester System (CBCSS) of Mahatma Gandhi University for the B. Sc. Mathematics (6 semesters) • The Post Graduate Credit and Semester System (PGCSS) of Mahatma Gandhi University for the M. Sc. Mathematics (4 semesters).
6.	Participation of the department in the courses offered by other departments:	:	The Department offers a Complimentary course for B. Sc. Physics, B. Sc. Chemistry, B. Sc. Computer Science, B.Sc Psychology and BA Economics programmes, and an Open course (Applicable Mathematics) for fifth semester CBCSS Undergraduate students of the College.
7.	Courses in collaboration with other universities, industries, foreign institutions:	:	Nil
8.	Details of courses/ programmes discontinued (if any) with reasons	:	Nil
9.	Number of teaching posts	:	10

Name of Posts	**Sanctioned**	**Filled**
Professors	Nil	Nil
Associate Professors	2	2
Assistant Professors	8	8

10. Faculty profile with name, qualification, designation, specialization,(D.Sc./D.Litt./Ph.D. / M. Phil. etc.)

	Name	Qualification	Designation	Specialization	Teaching	No. of Ph. D. Students

					Exp.	guided - last 4 years
1.	Ms. Shiny K. Jacob	M. Sc.	Assoc. Prof.	Statistics	28	
2.	Dr. E.S. Jeevanand	M. Sc.,Ph. D.	Assoc. Prof.	Statistics	20	
3	Mr. Prathish Abraham	M. Sc.	Assist. Prof.	Mathematics	10	
4	Mr. Eldo Varghese	M. Sc.	Assist. Prof.	Mathematics	10	
5	Ms. Anu Nuthan Joshua	M. Sc.	Assist. Prof.	Mathematics	6	
6	Ms. Geena Joy (on FIP)	M. Sc.	Assist. Prof.	Mathematics	6	
7	Ms. Mily Mary Sleeba K	M. Sc., M. Phil	Assist. Prof.	Mathematics	6	
8	Ms. Nisha N.	M. Sc.,M. Phil	Assist. Prof.	Mathematics	6	
9	Ms. Susmi Skaria	M. Sc.,M. Phil	Assist. Prof.	Mathematics	4	
10	Mr. Kurian C. Soman	M. Sc.,B. Ed, M. Phil	Assist. Prof.	Mathematics	3	
11	Ms. Sruthi K	M. Sc.	FIP substitute	Mathematics	6 months	
12	Meethu J Thettayil	M. Sc.	Guest Faculty	Mathematics	6 months	

11. List of senior visiting faculty:

12. Percentage of lectures delivered and practical classes handled by temporary faculty (programme wise)

UG – Theory : 20%
UG – Practical : Nil
PG – Theory : 10%
PG Practical : Nil

13. Student - Teacher Ratio (programme wise)

B. Sc. : 12:1
M. Sc. : 4:1

14. Number of academic support staff (technical) and administrative staff

Nil

15. Qualifications of teaching faculty with DSC / DLitt/ PhD / MPhil/ PG.

Sl. No.	Name	Qualification
1	Ms. Shiny K. Jacob	M. Sc.
2	Dr. E.S. Jeevanand	M. Sc., Ph. D.
3	Mr. Prathish Abraham	M. Sc, NET
4	Mr. Eldo Varghese	M. Sc, NET
5	Ms. Anu Nuthan Joshua	M. Sc, NET

6	Ms. Geena Joy (on FIP)	M. Sc, NET
7	Ms. Mily Mary Sleeba K.	M. Sc., M. Phil, NET
8	Ms. Nisha N.	M. Sc., M. Phil,. NET
9	Ms. SusmiSkaria	M. Sc., M. Phil, NET
10	Mr. Kurian C. Soman	M. Sc., M. Phil, NET
11	Ms. Sruthi K.	M. Sc.
12	Ms. Meethu J. Thettayil	M. Sc.

16. Number of faculty with ongoing projects : Minor Research Projects – 03
from a) National b) International (U.G.C.)
funding agencies and grants received

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc.
and total grants received:

Sl. No	Name of the Investigator	Title of the Project	Rs.1,70,000	Funding Agency
1	Dr. E.S. Jeevanand	Software reliability, data analysis with stress-strength model using the power law distribution	Rs. 2,00,000/-	UGC
2	Prathish Abraham	An Analysis of Effectiveness of Student Support Systems in Individual Performances using Fuzzy Relations	Rs.1,70,000	UGC
3	Eldo Varghese	Some Problems in Graph Theory with special reference to Fuzzy Intersection Graphs	Rs.1,70,000	UGC

18. Research Centre/ facility recognized by University:
Approved Research Centre in Mathematics, of Mahatma Gandhi University, Kottayam

19. Publications
a) Publications per Faculty : Separate list Attached in **Annexure I**
b) Number of papers published in peer reviewed journals (national/ international) by faculty and students :
c) Number of publications listed in International Database (For Ex: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)
Monographs, Chapter in Books, Books Edited
Books with ISBN/ISSN numbers with details of publishers
Citation Index, SNIP, SJR, Impact factor, h-index

20. Areas of consultancy and income generated: Nil

21. Faculty as members in a) National committees
b) International Committees c) Editorial Boards: Nil

22. Student Projects
a) Percentage of students who have done 100% B.Sc. Mathematics –

in-house projects including interdepartmental/ programme — M.Sc. Mathematics – 100%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies — B.Sc. Mathematics - Nil; M.Sc. Mathematics - Nil

23. Awards/ Recognitions received by faculty and students: Nil

24. List of eminent academicians and scientists /visitors to the department

1. Dr. Sunny Kuriakose A., Principal, B.P.C. College, Piravom
2. Prof.Unnikrishnan Nair, N, Former Vice-Chancellor and Professor Emeritus of Statistics, Department of Statistics, Cochin University of Science and Technology
3. Dr.A.Krishnamoorthy, Emeritus Professor, Department of Mathematics, Cochin University of Science and Technology
4. Dr.S.R.Kanan, Associate Professor, Department of Mathematics, Ramanujan School of Mathematical Sciences, Pondicherry University
5. Dr. Shalu M.A, Assistant Professor of Mathematics, Indian Institute of Information Technology, Design and Manufacturing, Chennai
6. Dr.K.P.Jose, Associate Professor, Department of Mathematics, St Peters College, Kolenchery
7. Dr.ApranaLakshmanan S, Assistant Professor, Department of Mathematics, St.Xavier's College Aluva
8. Dr. Vishnu Namboothiri, Assistant Professor, Government College, Ambalapuzhza
9. Mr. Shinoj K.M.,Assistant Professor, St. Joseph's College Devagiri.
10. Dr.(Sr.) Benedict Mary A., Associate Professor, Department of Mathematics, St. Xaviers, Aluva.
11. Dr. E. Krishnan, former Head of the Department of Mathematics, University College, Trivandrum
12. Mr. Dilip Kumar, Senior Research Fellow, Centre for Mathematical Sciences, Pala.
13. Dr. Deepesh K.P., Assistant Professor, Government Engineering College, Kozhikode
14. Dr. Kirankumar V.B., Assistant Professor, Kerala School of Mathematics,Kozhikode.
15. Dr. P.B. Vinod Kumar, Assistant Professor, Rajagiri Institute of Science and Technology, Kalamassery.
16. Prof. Oommen Mathew (Retired),Institute of Management in Government.
17. Dr. Mary Matilda,former Principal, Maharaja's College Ernakulam
18. Dr.Manju.K.Menon, Assistant Professor, Department of Mathematics, St.Paul's College, Kalamassery.
19. Dr. Abdul Sathar E.I, Department of Statistics, University of Kerala, Thiruvananthapuram
20. Prof. Edwin Thomson, Head of the Department of Mathematics, St. Albert's College, Ernakulam

25. Seminars/ Conferences/ Workshops organized & the source of funding:

a. U.G.C. sponsored National Seminar on 'Mathematical Modelling and its Applications' was organized by the Department on 14 & 15 January 2016
b. A Workshop on Research Methodology with Special Emphasis on Data Analysis was conducted on 19 - 23 May 2015 by the Department (sponsored by research forum UC College)

26. Student profile: programme / course-wise:

B.Sc Mathematics

Year	No. of students	A+	A	B	C	D	Pass percentage
2011	41	6	13	11	5	Nil	85.37
2012	27	Nil	4	15	2	Nil	77.77
2013	25	1	3	14	4	Nil	86
2014	29	1	6	13	5	Nil	86
2015	40	Nil	2	17	11	1	77.5
2016	46	4	10	11	1	Nil	56.5

M.Sc Mathematics

Year	No.of students	A+	A	B	C	Pass percentage
2011	17	4	8	Nil	Nil	70.5
2012	15	6	5	Nil	Nil	68.75
2013	16	Nil	5	7	Nil	75
2014	14	1	2	7	Nil	71.42
2015	13	1	4	6	Nil	84.6
2016	16	1	0	6	2	56.25

27. Diversity of Students: 99% of the students from Kerala & 1% from Lakshadweep

Percentage of SC/ST students:

Name of the Course	2015	2014	2013	2012	2011
B. Sc.	19%	18%	17%	16%	18%
M. Sc.	18%	20%	23%	21%	23%

28. Number of students have cleared : NET - 03
National and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc. JRF - 01

29. Student progression

Student progression	Against % enrolled
UG to PG	70%
PG to M. Phil	2%

PG to Ph. D	1%
Ph. D to Post-Doctoral	1%
Employed •Campus selection •Other than campus recruitment	 10% 15%
Entrepreneurship/Self-employment	5%

30. Details of Infrastructural facilities

- Department has 1 computer lab with smart class room, 1 library, 1 research room, 2 P.G. Classrooms
- Department of Mathematics has a reference library having 1445 books and journals
- Computing facilities include 16 multimedia computers,3 laptops with broad band internet connection-Operating systems, Windows 2000 and 2007 professional and Windows XP professional

31. Number of students receiving financial assistance from college, university, government or other agencies

SI No.	Scholarship	2015-'16	2014-'15	2013-'14	2012-'13	2011-'12
1	INSPIRE scholarship.	2				4
2	Alexander Mar Thoma Endowment Prize in Mathematics	1	1	1	1	1
3	Venkitaraman Memorial Prize for B.sc(Instituted by Chechamma Memorial Trust)	1	1	1	1	1
4	T.S. Venkitaraman Memorial Prize for M.Sc.	1	1	1	1	1
5	Prof. C. P. Achuthan Pillai Memorial Scholarship(merit cum means)	1	1	1	1	1
6	Shri. A. V. Kakkunni Memorial Prize	1	1	1	1	1
7	Prof. K. P. Mathew Endowment Award	1	1	1	1	1
8	Prof. M. G. Koshy Endowment Award	1	1	1	1	1
9	Smt. C. Lakshmikutty Amma Memorial Scholarship	1	1	1	1	1
10	C. M. Kuruvilla Endowment	14	14	14	14	14
11	Thasnim H Memorial Prize	1				
12	Trinity Scholarships	5	5	5	5	5

32. Details on student enrichment programmes (special lectures /workshops /seminar) with external experts (Details attached in **Annexure II)**

	Seminars		Workshops	Invited Talks
	National	Regional		
2011-2012		1		1
2012-2013			1	1

2013-2014		1		1
2014-2015		1	2	2
2015-2016	1		1	1

III) Seminars/ workshops attended by the faculties (Details attached in **Annexure**

Name of the Faculty	Seminars/Conferences			Workshop	Orientation/ Refresher
	International	National	Regional		
Prof. Shiny K. Jacob			1	1	
Mr. Prathish Abraham		5	1	1	1
Mr. Eldo Varghese	1	2	2	3	1
Ms. Anu Nuthan Joshua	1	2	2	2	2
Ms. Geena Joy	1	2	2	2	2
Ms. Mily Mary Sleeba K.	1	1	2	1	2
Ms. Nisha N.		4	2	1	2
Ms. Susmi Skaria	2	1	1		
Mr. Kurian C. Soman	2	2	1	2	2

33. Teaching methods adopted to improve student learning:

a. A smart class room is available in the department and the students given the facility to present their academic seminars there.
b. Workshops on Statistical Packages are often conducted by which students are familiarized to data analysis through packages like SPSS, R-Stat etc.
c. Students are given assignments/projects on the frontier areas of mathematics which help them to familiarize such topics.
d. Regional seminars are conducted every year by eminent teachers/academicians which enables the students to listen to eminent personalities in respective areas.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

a. Every year an Inter School Mathematics Quiz Competition "*CIPHER*" in honor of former Head of the Department Prof. K.P. Mathew is being conducted for Higher Secondary School students.
b. Every year an Inter collegiate seminar presentation competition in memory of Ms. Thasnim, an alumnus for college students
c. Regularly organise workshop on Statistical packages for college teachers and Research scholars.

d. The students of the department participate in the social responsibility programmes conducted in connection with UBCHEA projects run by the Department of Psychology & Botany

35. Students achievements:

Ranks & Other Academic Achievements

a. Geethajali A G secured 2nd rank in MSc Mathematics in 2012
b. Ancy Varghese secured 5th rank in MSc Mathematics in 2012
c. Mariya Paulose secured 2nd rank in MSc Mathematics in 2013
d. Meethu J. Thettayil secured 5th rank in MSc Mathematics in 2013
e. Indu P S secured A^+ in BSc Mathematics in 2013

f. Aparna Pradeep secured A^+ in BSc Mathematics in 2014
g. Gayathri R secured A^+ in MSc Mathematics in 2014
h. Indu P S secured A^+ in MSc Mathematics in 2015
i. Gopikrishna S Nair secured A^+ in MSc Mathematics in 2016
j. Siji Elsa Paul of III BSc participated in RD camp held at New Delhi in 2016
k. A Aparnna and Jisna Paul of II BSc Mathematics visited IIM Banglore and IISC Banglore as part of the motivational visit of WWS programe in 2015

Placements

a. Ancy Jose, Ashitha V.S, Ashna Roy, Dev Anand K. and Shaison Thomas of B.Sc. Mathematics got placed in Wipro in 2014.
b. Maria Yohannan of M.Sc. Mathematics got placed in South Indian Bank as clerical staff
c. Dev Anand K. of B.Sc. Mathematics got placed in Federal Bank Ltd. as clerical staff in 2014
d. Bindya Paul & Nayana Vijayan of M.Sc. Mathematics got placed in Federal Bank Ltd. as probationary officers in 2014
e. Vibitha Varghese and Jintu Gigi of B.Sc. Mathematics got placed in Tech Mahindra in 2015.
f. Sreeja P.S. of B.Sc. Mathematics got placed in Wipro Technologies as S/W engineer and Federal Bank Ltd. as clerical staff

36. SWOT analysis of the department and future plans:

Strength

- ✓ Well equipped computer lab
- ✓ Well equipped smart class room
- ✓ Well equipped library
- ✓ The largest research community in mathematical sciences under M.G. University
- ✓ Highest output on research, producing over 100 publications and 20 Ph.D. awarded

Challenges

- ✓ Small class rooms with insufficient furniture.
- ✓ Lack of smart class rooms for P.G. classes and final year U.G. class
- ✓ Lack of proper funding for maintenance of existing facilities.

Future plans

- ✓ Facilities are available for starting M.Phil courses
- ✓ Add on course on computational statistics and Mathematics can be introduced using existing lab and resources without any extra investment
- ✓ College/ Department can arrive an agreement with Government Agencies like Routronics, C-dit, Keltron etc to conduct vocational courses.
- ✓ The facilities available in the department can be utilized to train high school /higher secondary teachers in modern and trendy areas in mathematical science.
- ✓ The computer lab can be used to give training in statistical packages for the project analysis of the students of various P.G. courses in science & social sciences.

Annexure I

Departmental publications & research output

1. Tutu M. John, Sunny Kuriakose., 'Decision Making A New Approach', Journalof Science, Technology and Management, 3(3), (2010), 29–33.
2. Tutu M. John, Sunny Kuriakose., 'Possibilistic Optimistic Criteria in a FuzzyEnvironment', Advances in Fuzzy Sets and Systems, 8(1), (2011), 1–11, MR (American Mathematical Society) 2865605.
3. Tutu M. John, Sunny Kuriakose, 'Decision Making under Uncertainty in aFuzzy Environment', International Journal of Fuzzy Mathematics and Systems, 1(3), (2011), 273–279.
4. Tutu M. John, Sunny Kuriakose, 'Optimistic Criteria in a Fuzzy and IntuitionisticFuzzy Environment', Bulletin of Kerala Mathematical Association, 8(2), 2011), 343–349.
5. Tutu M. John, Sunny Kuriakose, 'Possibilistic Pessimistic Criteria in a FuzzyEnvironment', International Journal of Fuzzy Mathematics and Systems, 1(3), (2011), 299–306.
6. Tutu M. John, Sunny Kuriakose, 'Semigroup of Alternatives using Fuzzy valuationFunction', Far East Journal of Mathematical Sciences, 65(2), (2012), 199–210. MR (American Mathematical Society).
7. Tutu M. John, Sunny Kuriakose, 'Decision Criteria in a Fuzzy and IntuitionisticFuzzy Environment', Journal of Fuzzy Sets, IFMI, California, USA.
8. Annie Varghese, Sunny Kuriakose, Cartesian products over intuitionistic fuzzy sets, International Journal of Fuzzy Mathematics and Systems, Vol.2, No. 1 (2012) 21–27.
9. Annie Varghese, Sunny Kuriakose A., More on Cartesian products overIntuitionistic Fuzzy Sets, International Mathematical Forum, Vol. 7, 2012,No. 23, 1129–1133.
10. Anie Varghese, Sunny Kuriakose, Centroid of an intuitionistic fuzzy number, Notes on Intuitionistic Fuzzy Sets, Vol. 18, No. 1 (2012) 19–24.
11. Annie Varghese, Sunny Kuriakose A., More on Intuitionistic Fuzzy Relations, Notes on Intuitionistic Fuzzy Sets, Vol. 18, 2012, No. 2, 13–20.
12. Shiny Jose, Decomposition theorems of an intuitionistic fuzzy set, *Note on Intuitionistic Fuzzy Sets* Vol.18,No. 2,(2012), pp. 31-36
13. Shiny Jose, Note on Multi attribute decision making in intuitionistic fuzzy context ,*Note on Intuitionistic Fuzzy Sets*, Vol.19(2013) N0.1, pp.48-53.
14. Shiny Jose, Multicriteria Decision Making Under Interval Valued Intuitionistic Fuzzy Context, *Journal of Fuzzy Mthematics* Vol. 21, No.4(2013)pp. 37-41.
15. Shiny Jose, Multi attribute decision making using decision makers attitude in intuitionistic fuzzycontext, *International Journal of Fuzzy Mathematics and Systems* Vol.3,NO.3(2013),pp. 189-195.
16. Shiny Jose, Aggregation of Intuitionistic Fuzzy Sets using(α,β) cuts, Journal of current studies: Proceedings of National Conference on Modelling, Optimizattion and computational Techniques, S.N.M.College Maliankara2013, pp.79-84.
17. Shiny Jose, Algorithm for solving an Assignment model in IF context, *International Journal of Fuzzy Mathematics and Systems* Vol.3 No.5(2013) pp. 345-349.
18. Shiny Jose, More on (α,β) level, Closure and Interior, in intuitionistic fuzzy context, *Georgian Educational Mine International Journal*,(2014), Vol. 1, No. 1, pp.73-77.

19. Shiny Jose, Aggregation operator, Score function and Accuracy function for Multicriteria decision problems in intuitionistic fuzzy context,*Note on Intuitionistic Fuzzy Sets*, Vol.20(2014) N0.1, pp. 40-44.
20. Shiny Jose, Multiattribute Decision making for Intuitionistic Fuzzy Sets , Proceedings of National Conference on Fuzzy Logic and its Applications to Computer Science, B.P.C.College, Piravom.February 2014, pp.31-38
21. Sheeja T K, On the topological Structure of Rough sets induced by quasi orders, *Proceediings of the UGC Sponsored National Seminar on Fuzzy Logic and its Applications to Computer Science*, B.P.C.College, Piravom, February 2014, pp 17-20.
22. T K, On the topology induced by Rough Set Approximations, Proceedings of the UGC Sponsored National Seminar on Mathematical Modelling and its Applications, UC College Aluva January 2016 (Under Press)
23. Sheeja T K, On Multi-granualtion Rough Sets, International Journal of Granular Computiong, Rough Sets and Intelligent Systems. (Communicated)
24. S. Arumugam, Bibin K. Jose, CsillaBujats and ZsoltTuza, equality of domination and transversal numbers in hypergraph, Discrete Applied Mathematics, 161(2013), pp1859-1867
25. Bibin K. Jose, Graph products of open distance pattern uniform graph-General Mathematical Notes, Vol.18, No2, 2013 p.p 67-68
26. Rogi Jacob, Sunny Kuriakose A Near sets through fuzzy similarity relation Applied Mathematical Sciences, Vol. 8, 2014, no. 41, 2035-2040
27. Aparna Lakshmanan S., Manju K. Menon, Anu V., *Homometric number ofgraphs*, (Communicated).
28. Anu V., Aparna Lakshmanan S., *Homometric Number of a Graph and Some Related Concepts*, Lecture Notes in Computer Science, Springer-Verlag (Accepted).

Annexure II

2011-2012

1. Invited Talk on 'General Mathematics' was held on 5th August 2011. The resource person was Dr. Sunny Kuriakose A., Principal, B.P.C. College, Piravom and former faculty of the Department of Mathematics, U.C. College, Aluva.
2. One day Regional Seminar on 'Algebra and Combinatorics' was organized by the department on 24th February 2012. The resource persons were Dr. Vishnu Namboothiri, Assistant Professor, Government College, Ambalapuzhza and Prof. Shinoj K.M.,Assistant Professor, St. Joseph's College Devagiri.

2012-2013

3. Invited Lecture on 'Graph Theory and Applications' was conducted on 20th July 2012. The resource person Dr.(Sr.) Benedict Mary A., Associate Professor, Department of Mathematics, St. Xaviers, Aluva.
4. The department organized a two day Workshop on 'Analysis to Topology' on 26-27 February 2013. Dr. E. Krishnan, former Head of the Department of Mathematics, University College, Trivandrum was the resource person.

2013-2014

5. Invited lecture on 'Mathematics and nature' was held on 3rd August 2013. The resource person was Mr. Dilip Kumar, Senior Research Fellow, Centre for Mathematical Sciences, Pala.
6. One day Regional Seminar on 'Compact Operators on Banach Spaces' was organized by the department on 3rd March 2014. The resource persons were Dr. Deepesh K.P., Assistant Professor, Government Engineering College, Kozhikode and Dr. Kirankumar V.B., Assistant Professor, Kerala School of Mathematics, Kozhikode.

2014-2015

7. Invited Talk on 'Some Conjectures' was held on 26th August 2014. The resource person was Dr. P.B. Vinod Kumar, Assistant Professor, Rajagiri Institute of Science and Technology, Kalamassery.
8. A Workshop on 'Introduction to Galois Theory' was conducted on 24th July 2014 and 1st August 2014. Dr. Vishnu Namboothiri K., Assistant Professor, `B.J.M. College, Chavara was the resource person.
9. A Talk on 'Career Development' by Prof. Oommen Mathew (Retired),Institute of Management in Government.
10. A Regional Seminar on 'Topology and Hyper Real Analysis' was organized by the department on 19 and 20 March 2015. The resource person was Dr. P.B. Vinod Kumar, Assistant Professor, Rajagiri Institute of Science and Technology, Kalamassery.
11. A Workshop on Research Methodology with Special Emphasis on Data Analysis was conducted on 19-23 May 2015 by the Department.

2015-2016

12. Invited Lecture on 'Life Skills in Mathematics' was held on 13th August 2015. The resource person was Dr. Mary Matilda,former Principal, Maharaja's College Ernakulam.
13. U.G.C. sponsored National Seminar on 'Mathematical Modelling and its Applications' was organized by the Department on 14 & 15 January 2016. The

resource persons were Prof.Unnikrishnan Nair, N, Former Vice-Chancellor and Professor Emeritus of Statistics, Department of Statistics, Cochin University of Science and Technology, Dr.A.Krishnamoorthy, Emeritus Professor, Department of Mathematics, Cochin University of Science and Technology, Dr.S.R.Kanan, Associate Professor, Department of Mathematics, Ramanujan School of Mathematical Sciences, Pondicherry University, Dr. Shalu M.A, Assistant Professor of Mathematics, Indian Institute of Information Technology, Design and Manufacturing, Chenai, Dr.A Sunny Kuriakose, Dean, FISAT, Angamaly, Dr.K.P.Jose, Associate Professor, Department of Mathematics, St Peters College, Kolenchery, Dr.ApranaLakshmanan S, Assistant Professor, Department of Mathematics, St.Xavier's College Aluva and Dr.Manju.K.Menon, Assistant Professor, Department of Mathematics, St.Paul's College, Kalamassery.

14. The department organized a workshop on Basic and Advanced Data Analysis using SPSS on 14 & 15 January 2016. The resource person was Dr. Abdul Sathar E.I, Department of Statistics, University of Kerala, Thiruvananthapuram

Mr. Prathish Abraham

- Refresher Course in Mathematics conducted by UGC Academic Staff College, University of Kerala from 21 June 2011 to 12 July 2011
- National Seminar on "Some recent developments in Mathematics and their applications to Image processing and Medical Diagnosis" conducted by St. Albert's College, Ernakulam on 11 - 12, April 2013
- National Seminar on "Applications of Graph Theory" at St. Dominic's College, Kanjirappally on 21st and 22nd, November 2013.
- National seminar on "Functional Analysis" at Govt. College, Kasaragod on 16th and 17th December 2015.
- National Seminar on "Mathematical Modelling with Special Emphasis on Graph Theory, Fuzzy Mathematics and Stochastic Modelling" at U.C. College, Aluva on 14th and 15th January 2016.
- National Seminar on "The Role of Geometry in Mathematics" at Sree Vidyadhi Raja N.S.S. College, Vazhoor on 14th and 15th March 2016.
- Workshop on From Analysis to Topology 26-27 January 2013Union Christian College, Aluva.
- Regional Seminar on Compact Operators on Banach Spaces 3rd March 2014 Union Christian College, Aluva.

Mr. Eldo Varghese

- Refresher Course in Mathematics conducted by UGC Academic Staff College, University of Kerala from 21 June 2011 to 12 July 2011
- Seminar on 'Introduction to Cryptography and Graph Theory' at The Cochin College,Cochin on 8th December 2011
- 6th Asian Christian Faculty Fellowship Conferrence on 27th October 2012
- Discussion Forum chaired by Hon'ble Chief Minister of Kerala, Sri. Oommen Chandy on engaging ICT Academy of Kerala in Employability Skills Development Programme on 19th January 2015.
- National Seminar on 'Functional Analysis' organized by the Department of Mathematics, Government College, Kasargod on 16th and 17th December 2015
- Workshop on 'U.G. Curriculum Restructuring in Mathematics' held on 29th February 2016 at Nirmala College, Muvattupuzha
- Workshop on PG Syllabus Revision 2016-17 at NSS Hindu College, Changanacherry 9th and 10th March 2016
- Workshop on From Analysis to Topology 26-27 January 2013Union Christian College, Aluva.
- Regional Seminar on Compact Operators on Banach Spaces 3rd March 2014 Union Christian College, Aluva
- National Seminar on Mathematical Modelling and its Applications 14 - 15 January 2016 Union Christian College, Aluva.

Ms. Anu Nuthan Joshua

- Workshop for college teachers on under graduate syllabus revision 28-29 July 2011 C.M.S College, Kottayam
- National Seminar on Complex Analysis and Applications 15- 17 July 2012 B.J.M College, Chavara
- Orientation Programme conducted by UGC Academic Staff College,

University of Kerala from 6 June 2013 to 3 July 2013

- Refresher Course in Mathematics from 17 September 2014 to 7 October 2014 conducted by UGC Academic Staff College, University of Kerala
- International Seminar on Analysis and Applications and Dr. T. Thrivikraman endowment lecture 9 February 2015 Department of Mathematics, St Theresa's College, Ernakulam
- Workshop on From Analysis to Topology 26-27 January 2013Union Christian College, Aluva
- Regional Seminar on Compact Operators on Banach Spaces 3rd March 2014 Union Christian College, Aluva
- National Seminar on Mathematical Modelling and its Applications 14 - 15 January 2016 Union Christian College, Aluva.

Ms. Geena Joy

- National Seminar on 'Recent Trends in Fuzzy Mathematics and its Applications' from 22 Sept. 2011 to 23 Sept. 2011 at Newman College, Thodupuzha.
- Orientation Course at UGC Academic Staff College, University of Calicut from 17th November to 14th December 2011.
- Regional Seminar on "Statistical Inference and Mathematical Analysis" at Newman College, Thodupuzha on 10 - 11, January 2013.
- International Seminar on 'Queues and Graphs' on 7 January 2015 at St. Peter's College, Kolenchery.
- Workshop on Research Methodology with special emphasis on Data Analysis from 19 May to 23 May 2015 at Union Christian College, Aluva.
- Refresher Course in Mathematics from 4th August to 24th August 2015 at UGC Academic Staff College, University of Kerala.
- Workshop on From Analysis to Topology 26-27 January 2013Union Christian College, Aluva
- Regional Seminar on Compact Operators on Banach Spaces 3rd March 2014 Union Christian College, Aluva
- National Seminar on Mathematical Modelling and its Applications 14 - 15 January 2016 Union Christian College, Aluva.

Ms. Mily Mary Sleeba K.

- International Seminar on "Stochastic Modeling and Neural Fuzzy Systems" at St Peter's College, Kolenchery on 7th January 2013.
- Refresher Course in Mathematics from 20th August to 9th September 2013 at UGC Academic Staff College, University of Kerala.
- Orientation Course at UGC Academic Staff College, University of Kerala from 22nd April 2015 to 19th May 2015.
- Workshop on From Analysis to Topology 26-27 January 2013Union Christian College, Aluva
- Regional Seminar on Compact Operators on Banach Spaces 03 March 2014 Union Christian College, Aluva
- National Seminar on Mathematical Modeling and its Applications 14 - 15 January 2016 Union Christian College, Aluva

Ms. Nisha N.

- Orientation Course at UGC Academic Staff College, University of Calicut from 17th November to 14th December 2011.
- National Seminar on 'Topology and Geometry' at Thunchan Memorial

College Tirurangadi.

- National Seminar on 'Advances in Discrete Mathematics' at P.S.M.O. College on 25th and 26th February 2014.
- Winter School conducted by UGC Academic Staff College, University of Calicut from 28th November to 18th December 2014.
- National Seminar on 'Mathematical Analysis and Application' at Thunchan Memorial College, Tirurangadi during 25th February to 27th February 2015.
- National Seminar on Analysis at Govt. College, Madappilly on 7th and 8th January 2015.
- Workshop on From Analysis to Topology 26-27 January 2013Union Christian College, Aluva
- Regional Seminar on Compact Operators on Banach Spaces 03 March 2014 Union Christian College, Aluva
- National Seminar on Mathematical Modelling and its Applications 14 - 15 January 2016 Union Christian College, Aluva.

Ms. Susmi Skaria

- International Seminar on "Stochastic Modeling and Neural Fuzzy Systems" conducted by St Peter's College, Kolencherry on 7th January 2013.
- International seminar on "Analysis and Applications" at St. Theresa's College, Ernakulam on 9th February 2015.
- Regional Seminar on Compact Operators on Banach Spaces 03 March 2014 Union Christian College, Aluva
- National Seminar on Mathematical Modelling and its Applications 14 - 15 January 2016 Union Christian College, Aluva.

Mr. Kurian C. Soman

- Orientation course for College Teachers in Kerala State held at Kerala School of Mathematics, Kozhikode during November 08-11, 2013.
- Instructional workshop on "Semigroups and Applications" at Cochin University of Science and Technology during February 22-24, 2014.
- International conference on "Semigroups, Algebras and Operator Theory" at Cochin University of Science and Technology during February 26-28, 2014.
- International conference on "Algebra and Discrete Mathematics" at Government College, Kattappana during 04-06 March 2014.
- Regional Seminar on Compact Operators on Banach Spaces 3rd March 2014 Union Christian College, Aluva
- National Seminar on Mathematical Modelling and its Applications 14 - 15 January 2016 Union Christian College, Aluva.

Annexure

LIST OF RESEARCH SCHOLARS:

Name of the Research Scholars	Name of the Guides
Neethu Jacob	Dr. E.S. Jeevanand
Gilfin Francis	Dr. E.S. Jeevanand
Mily Mary Sleeba K	Dr. Sunny Kuriakose
Murali T K	Dr. Sunny Kuriakose
Manjusha R.	Dr. Sunny Kuriakose
Sheeja T.K.	Dr. Sunny Kuriakose
Manju Raju	Dr. S Arumugham
Benno Mathew	Dr. K.K. Thampi
Joseph Justin Rebello	Dr. K.K. Thampi
Ambily M.P.	Dr. Mary M.
Deepa V G	Dr. AparnaLaxmanan S
Jeena K M	Dr. AparnaLaxmanan S
Ninu S Lal	Dr. AparnaLaxmanan S
Anu V.	Dr. AparnaLaxmanan S.
Jismy Varghese	Dr. AparnaLaxmanan S.
Seena Varghese	Dr. AparnaLaxmanan S.
Jeepamol J Palathingal	Dr. AparnaLaxmanan S.

Annexure

LIST OF SCHOLARS COMPLETED PH.D:

Sl.No	Name of the Scholar	Title of the thesis	Supervising Guide	Year
1	Bibin K. Jose	Domination in Hypergraphs	Dr. S. Arumugham	2012
2	Varughese Mathew	Studies in Graph Theory – Rational Approach	Dr. S. Arumugham	2012
3	Cyriac Antony	Financial Market Analysis and Investment Decisions-A Statistical Approach	Dr. E. S. Jeevanand	2012
4	Tutu M. John	A Study of certain Economic Problems Using Fuzzy Mathematics	Dr. A. Sunny Kuriakose	2013
5	Thavamoni J.P.	Edge Product Graphs	Dr. A. Sunny Kuriakose	2014
6	Annie Varghese	A Study of Economic Equilibria Using Fuzzy and Intuitionistic Fuzzy Mathematical Tools	Dr. A. Sunny Kuriakose	2014
7	Shiney Jose	Some Problems in Intuitionistic Fuzzy Optimization and Decision Making	Dr. A. Sunny Kuriakose	2015
8	Philomena C.F.	Study of Frames in Fuzzy Context	Dr. A. Sunny Kuriakose	2015
9	Bijamma Thomas	Software Reliability Growth Models	Dr. RajanVarughese	2015
10	Rogi Jacob	A Study on Fuzzy Image Processing and Related Areas	Dr. A. Sunny Kuriakose	2016
11	Dhanya M.	Estimation of Reliability Measures of Some Commonly Used Heavy Tailed Life Time Distribution	Dr. E. S. Jeevanand	2016

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DEPARTMENT OF PHYSICS

1. Name of the Department : Department of Physics
2. Year Established : 1926
3. Names of the Programmes/Courses offered : B. Sc. Physics, M. Sc. Physics, and Ph. D.
4. Names of inter disciplinary courses and the departments /Units involved :
   - The Department offers open course (Amateur Astronomy) for fifth semester CBCSS Undergraduate students of the College
5. Annual/ semester/choice based credit system: :
   - The Choice Based Credit and Semester System (CBCSS) of Mahatma Gandhi University for the B. Sc. Physics (6 semesters)
   - The Post Graduate Credit and Semester System (PGCSS) of Mahatma Gandhi University for the M. Sc. Physics (4 semesters).
6. Participation of the department in the courses offered by other departments: : The Department offers a Complimentary course for B. Sc. Chemistry and B. Sc. Maths an Open course (Amateur Astronomy) for fifth semester CBCSS Undergraduate students of the College. The students in the fifth semester are encouraged to participate in the various open courses offered by different departments of the college
7. Courses in collaboration with other universities, industries, foreign institutions: : Nil
8. Details of courses/ programmes discontinued (if any) with reasons : Nil
9. Number of teaching posts :

Name of Post	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	1	1
Asst. Professors	8	8

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.)

	Name	Qualification	Designation	Specialization	Teaching Experience
1.	Dr. E I. Anila	M. Sc., M. Phil, PhD	Associate Professor	Material Science	28
2.	Dr. Rachel Reena Philip	M. Sc., PhD	Assistant Professor	Material Science	17
3.	Dr. Rakhi Raphael	M. Sc	Assistant Professor	Material Science	4.5
4.	Dr. Alex Mathew	M. Sc., Ph. D.	Assistant	Material Science	4

			Professor		
5.	Dr. Manu Punnen John	M. Sc., Ph. D.	Assistant Professor	Nonlinear dynamics	4
6.	Dr. Reshmi Raman	M. Sc., M. Phil., Ph. D.	Assistant Professor	Material Science	3.5
7.	Dr. Pramod Dominic	M. Sc., Ph. D.	Assistant Professor	String Theory	2.5
8.	Dr. K Madhu	M. Sc., Ph. D.	Assistant Professor	String Theory	1.5
9	Dr.Shinoj V K	MSc. PhD	Assistant Professor	Optics	1

11. List of senior visiting faculty : Nil
12. Percentage of lectures delivered and practical classes handled by temporary faculty (programme wise) : UG – Theory :0%
UG – Practical : 0%
PG – Theory : 0%
PG Practical : 0%
13. Student - Teacher Ratio (programme wise) : B. Sc. : 56:3
M. Sc. : 15:1
14. Number of academic support staff (technical) and administrative staff sanctioned and filled `:

Technical Staff (Lab Assts)		Administrative Staff (store keeper)	
Sanctioned	Filled	Sanctioned	Filled
05	03	01	01

15. Qualifications of teaching faculty with DSC / DLitt/ PhD / MPhil/ PG.

	Name	Qualification
1.	Dr. E I. Anila	M. Sc., M. Phil, PhD
2.	Dr. Rachel Reena Philip	M. Sc., PhD
3.	Dr. Rakhi Raphael	M. Sc.
4.	Dr. Alex Mathew	M. Sc., Ph. D.
5.	Dr. Manu Punnen John	M. Sc., Ph. D.
6.	Dr. Reshmi Raman	M. Sc., M. Phil., Ph. D.
7.	Dr. Pramod Dominic	M. Sc., Ph. D.
8.	Dr. K Madhu	M. Sc., Ph. D.
9.	Dr. Shinoj V K	MSc., PhD

16. Number of faculty with ongoing projects from
a) National : Five as PI and two as Scientist Mentors for research students

b) International : One as PI and One as Co-PI

National collaborative (UGC-DAE)	National (DST, UGC and BRNS)	State (KSCSTE)
1	10	3

Sl. No	Name of faculty	Funding Agency	Title
1	Rachel Reena Philip	UGC (collaborative)	TiO2 nanotubes as electrodes in supercapacitors and junctions in photovoltaics running in collaboration with UGC-DAE consortium for Scientific

	Manu Punnen	UGC minor	research, Indore. (2014-17)2014-2017.
	Rakhy Raphal	UGC Minor	An Electro-mechanical piecewise linear system for Structural Health Monitoring Ref. 1845-MRP/14-15/KLMGO12/UGC-SWRO(2015-17)
	E.I Anila	UGC Minor	
	Resmi R	UGC Minor	Organic-Inorganic Metal Halide Perovskites for Solar Cell Applications, Ref no 1846-MRP/14-15/KLMG012/UGC-SWRO(15-17)
	Rachel Reena Philip	UGC Minor	
	E.I.Anila	UGC Minor	Studies on effect of flux on the structural and optical properties of SrS:Cu phosphorperiod 3-7-2009 to 2-7-2011
			Sensing Properties of CNT TiO2 nano structures, Year: 2016-2018
			Band gap engineering of nanostructured leadsulphide thin films by doping and fabrication of solar cell device, (Ref. no: MRP(S)-1193/11-12/KLMG012/UGC-SWRO KLMG012, 2012-2014.
			UGC Minor project entitled "Synthesis and characterisation of nanostructured PbS thin films for photovoltaic applications" 2013- 2015
2	Anila E I and Resmi R,	BRNS (Major)	Fabrication and characterisation of transparent conducting oxide thin films for optoelectronic applications, Year: 2015-2018, BRNS Project
3	Anila E.I	DST(Major)	Preparation and characterization of nanophosphors for display and biomedical applications 2012-15.
	Rachel Reena Philip	DST(Major)	Fabrication And Characterization of Hybrid Solar Cells Of a Novel Configuration with I-III-VI

	Sreeja Sangeeth (Research Student), Supervisor: Anila E I	DST Women Scientists	OVC and II-VI or IV – VI nanostructured thin films, (Ref no: SR/S2/CMP-0036/2012), DST major project (3 years project) 2013-2016. Electrical and nonlinear optical characterization of optoelectronic materials, 2014-17
4	Reshmi R and Alex Mathew Rachel Reena Philip Rajani Jacob (Research Student) Rachel Reena Philip (Scientist Mentor) (Msc Students Anuja and Raina) Reshmi R (MSc Student Akash and Merian) Reshmi R	KSCSTE (Major) KSCSTE (Major) KSCSTE (Back to Lab) KSCSTE student Project KSCSTE student Project	Synthesis and characterization of MoO3 for nanoscale device application,Year: 2016-2019, Thin film preparation and valence band splitting studies of I-III-VI compounds and solar cell device fabrication, (Ref.no:012/SRSPS/2007/CSTE), 2009-2012. Fabrication and characterization of hetero junction solar cells 2014-17 Growth and characterization of TiO2 nanostructres for sensing applications, Year: 2014, (Completed) Growth of rGo for optoelectronic applications Year:2015 Resmi R KSCSTE Project (Completed)
		UBCHEA International UBCHEA International	Treatment of sewage water using oxide based catalytic beds, Reshmi R, 2014-15 A simple and efficient portable set up for water purification using nano metal oxides and sunlight Resmi R,Year:2015-16

18. Research Centre/ facility recognized by the University : Yes. Affiliated to Mahatma Gandhi University

19. Publications
    a) Publications per Faculty : Separate list Attached.
    b) Number of papers published in peer reviewed journals (national/ international)

by faculty and students :

Faculty Name	Number of papers published in peer reviewed International journals by faculty and students with I.F between~ 1.5 and 7.4	publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International ,Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)	Monographs/ Books
Dr. E. I. Anila	3(2016) 4 (2015) 1(2014) 1(2013) 3(2012) 2(2011)	4(2016) 6((2015) 3(2014) 2(2013) 3(2012) 3(2011)	1(2011)
Dr. Rachel Reena Philip	7 (2016) 4 (2015) 5(2014) 1(2013) 3(2012) 1(2011)	8(2016) 4 (2015) 10(2014) 3(2013) 3(2012) 3(2011)	
Ms. Rakhy Raphael	Nil in the accreditation period	NA	NA
Dr. Alex Mathew	Nil in the accreditation period	NA	NA
Dr. Manu Punnen John	1(2012)		
Dr. Reshmi R	1(2016) 3 (2015) 2(2014) 1(2012) 3(2011)	1(2016) 5 (2015) 2(2014) 4(2012) 3(2011)	0
Dr. Pramod Dominic	1 (2015) 1(2012) 2(2011)	1(2015) 1(2012) 2(2011)	0
Dr. K. Madhu	Nil in the accreditation period	NA	NA
Dr.Shinoj V K	1(2016) 3(2015) 2(2014) 2(2012) 3(2011)	6(2015) 2(2014) 2(2012) 4(2011)	1 Book chapter (2013)

20. Areas of consultancy and income generated — By Outsourcing the facilities like PL and spray research facility: Rs. 50,000/-

21 Faculty as members in a) National committees b) International Committees c) Editorial Boards:

a. National Committees:
b. International Committees
Faculty serve as referees for various international journals
1) Materials Research

Bulletin, Elsevier journal published from U.S
2) Optical Materials, Elsevier journal published from U.S.
3) Journal of Electro Chemical Society.
4) Powder Technology, Elsevier journal
5) Chemical Physics Letters, Elsevier journal

c. Editorial Board

22. Student projects

a. Percentage of students who have done in-house projects including interdepartmental/ programme — B. Sc. Physics : 100%; M. Sc. Physics : 100%

b. Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies — B. Sc. Physics : 0%; M. Sc. Physics : 0%

23 Awards/ Recognitions received by faculty and students

FLAIR INTERNATIONAL FELLOWSHIP to Dr.Reshmi R
UNITED BOARD FELLOW 2012-14 to Dr.Rachel Reena Philip
INTERNATIONAL TRAVEL GRANT to Dr. Anila E I

24 List of eminent academicians and scientists /visitors to the department

Prof H S Mani, Dept of Physics, Chennai Mathematical Institute. Association of Physics Teachers lecture series on Special Theory of Relativity on 13 and 14th February 2016.

Dr. MK Jayaraj. Dept of Physics CUSAT. Talk on "Up conversion Phosphors for solar cells application " 6/6/2015

Prof. VPN Nampoori, Dept of Photonics, CUSAT. Lecture on "Cosmology"

Dr. K P UnniKrishnan (2012), Department of Chemistry, UCC Talk on "Chemistry in daily life and environmental issues"

Dr.C S Unnikrishnan, Professor, Tata Institute of Fundamental Research (TIFR), Mumbai (2014) Lecture on "Gravitational Waves: Physics, Technology, and New Astronomy'

Prof Joaquim Puigdollers, Micro and Nanotechnologies Research Group Department of Electronic Engineering Universitat Politecnica de Catalunya, Spain. Talk on "Organic Solar cells" on 9/2/2016

Prof. Sunilkumar P B IIT,Madras and Director in charge, IIT, Palakkad. "Physics of soft and Biological matters " 29/10/2015

Ex additional district judge Sri. Somasundaran Nair (2014) Talk during the Alumni get together

Dr.S.V.M Satyanarayana, Dept. of Physics, Pondicherry Central University(2015) Talk on "Tensor analysis"

Dr. V. C. Kuriakose, Professor Emeritus, Cochin University of

Science and Technology. Talk on “Solar System”

25 Seminars/ Conferences/ Workshops organized & the source of funding

Two day workshop in association with APT on Special theory of Relativity funded by APT
Two day workshop in association with APT on Tensor Analysis funded by APT
Seminar on Physics of soft and biological matter, Prof. Sunil Kumar P B IIT,Madras funded by UBCHEA

26 Student Profile programme/ course-wise

Name of the Course/ programme	Enrolled	Pass Percentage
B. Sc. Physics		
2015	56	55
2014	47	61
2013	57	97
2012	58	95
2011	38	100
M. Sc Physics		
2015	15	Result Awaiting
2014	14	80
2013	15	79
2012	15	51
2011	15	69

27 Diversity of Students

Students from the home state and Lakshadweep.

Name of the Course	% of SC/ ST students: 2015	2014	2013	2012	2011
B. Sc.	19%	17%	17%	6%	18%
M. Sc.	30%	30%	23%	23%	23%

28

Year	Total no. of students GATE JEST/APT	NET/JRF Civil/Defense Service	Civil services	Defense services		
2011	3	2	Nil	Nil		
2012	2	2	Nil	Nil		
2013	1	Nil	Nil	Nil		
2014	3	1	Nil	Nil		
2015	1	2	Nil		5	5

29. Student Progression

UG to PG	53%
PG to Ph.D	40%

B.Sc Students who excelled in IAPT,JAM 15 nos

M. Sc students who presented papers in international/national conferences 18 papers

Ph. D students who got DST, KSCTE women Scientist fellowships 2

Bsc students who presented papers in National Conferences 5 papers

30 Ph. D awards

Details of Infrastructural facilities

Library	1 department library with more than 600 books and journals.
5. Internet facilities for Staff & Students	Computing facilities include 21 multimedia computers,4 laptops with broad band internet connection-Operating systems, Windows 2000 and 2007 professional and Windows Xp professional
6. Class rooms with ICT facility	01
7. Laboratories	The Department has seven laboratories; two for postgraduates, two for undergraduates.2 well furnished Material Science research labs with vacuum coating units, spray pyrolysis systems, furnaces, spin coating unit etc for materials fabrication and PL, conductivity unit, spectral response unit etc for characterization and with good national and international collaborations (with CUSAT, Cochin; IIT Bombay; UGC-DAE, Indore; HOPE College, MI, USA etc.) .One more research lab under construction.

31 Number of students receiving financial assistance from college, university, government or other agencies

Scholarships	2015	2014	2013	2012	2011
Scholarship from College	27	27	27	27	27
Scholarship from Government	8	1	4	2	
Inspire/ Prathibha)					
Scholarship from Other agencies		6 Ph. D from DST, students KSCSTE and UGC-DAE			
Financial Assistance/ Scholarship from the department	13 (UG) 5 (PG)	13 (UG) 5 (PG)	13 (UG) 5 (PG)	13 (UG) 5 (PG)	13 (UG 5 (PG)

Special lectures	Workshops	Seminars
*Lecture on Cosmology by Prof. VPN Nampoori (2011) *Students interaction with Dr. E.C George Sudharshan (2011-12), Renowned physicist and Scientist. * Lecture on Chemistry of cosmetics by Dr. K P UnniKrishnan (2012), Department of Chemistry, UCC. *Talk on "Handling future" by Dr.Simon Thomas, Former Vice President of Semi Conductor Division, Motorola. * Gravitational Waves: Physics, Technology, and New Astronomy'by Dr.C S Unnikrishnan, Professor, Tata Institute of Fundamental Research (TIFR), Mumbai (2014). *Talk by Ex additional district judge, Sri. Somasundaran Nair (2014) * Talk by Dr. Jeevan Job Thomas on Searching Reality Through Physics Physics stage show-Dr.Ananthakrishnan(2013) Physics stage show – Dr,James(2014)	*Sky Watching workshop in amateur astronomy by Dr. Sobhan, Associate prof. Maharajas college (2011) *Workshop on Innovative experiment and projects in Physics by department of Physics and IAPT (2012) * Night sky watching programme lead Dr. V. C. Kuriakose, Professor Emeritus, Cochin University of Science and Technology * The department of physics in association with ISRO, TVM, conducted a three day exhibition in science and technology "Bhauthika 2k14" from January 16-18, 2014. * Two day workshop in association with IAPT on Tensor Analysis by Dr.S.V.M Satyanarayana, Dept. of Physics, Pondicherry Central University(2015)	Seminar on "Upconversion phosphors for solar cell applications" Prof. Jayaraj, Professor, Cochin University of Science and Technology(2015) *Seminar by Prof. P B Sunilkumar, Director in charge, IIT, Palakkad, on the inter disciplinary topic Physics of soft and biological matter (2015)

32 Details on student enrichment programmes (special lectures /workshops /seminar) with external experts

33 Teaching methods adopted to improve student learning

Power-point Presentations	Demonstrations through models and experiments	Black-board teaching	Hands-on experience with molecular-modeling and graphics	Case-studies on related topics

34 Participation in Institutional Social Responsibility (ISR) and Extension activities

Bhauthika Exhibition open to college students, school students and faculty and to community around. Participation from school students alone was over 1500.

Service learning projects. Around 60 students participated.

35. SWOC Analysis of the department and future plans

STRENGTHS: Qualified Faculty, Faculty trained from Reputed Institutions with willingness to spend extra time on teaching and evaluation, Moderately good Infrastructure facility with one smart class room and ICIT facilities, Well equipped materials Science research labs with 16 PhD students under

two research guides. National and international research collaborations. More than one crore Funding generated through various research projects.

FIVE OPPORTUNITIES: Bright Students, Good Library, Eminent Faculty with great possibilities for expanding the research to theory and photonics.
FIVE CHALLENGES: High teacher student ratio that often hinders face to face interactions in the class along with a great variation in the student's IQ level that requires more one-by -one interaction.

37. Any Other points to be noted

- Alumni contribution for Library cum Seminar room: 9lakhs
- From platinum jubilee exhibition~ 1.5 lakhs (~RS.50,000 to endowment fund)

International Journal Publications
2016

1. Electrochemical synthesis of novel TiO2 nanotube/ ZnO nanoflakeheterostructure for dye sensitized solar cell application. Aijo John, Johns Naduvath, SudhanshuMallick, Jacob, Stephen Remillard, Paul De Young, ThoudinjaSripathi, Manju Thankamoni, Rachel Reena Philip, Nano& micro lettersDOI 10.1007/s40820-016-0099-z (2016) (IF:3.05)
2. Influence of Sb Incorporation on Optical, Electrical And Gas Sensing Properties Of Transparent ZnO Thin Films", N.H. Sheeba, Sunil C Vattappalam, Sunny Mathew and Rachel Reena Philip, Materials Chemistry And Physics 179 (2016) 137-142. (IF:2.101)
3. In situ crystallization of highly conducting and transparentITO thin films deposited by RF magnetron sputtering, K.Aijo John,Rachel Reena Philip, T Manju,Vacuum 132(2016)91-94. (IF:1.55)
4. Electrical and transport properties of nearly stoichiometric transparent n-type silver indium oxide thin film. K. Keerthi, P. Tarachand, G. S. Okram, T. Shripathi, V. Ganesan, B. G. Nair, A. Abraham, R. R. Philip, Physica status solidi (b), Volume 253, Issue 11, pages 2230–2235, November 2016.(IF:1.66)
5. A novel method for low temperature crystallization of transparent conducting delafossite AgInO2,K. Keerthi, K. Aijo John, B. Pradeep, M.D. Benoy, R. Anuroop, Rachel Reena Philip,DOI: 10.1016/j.jalcom.2016.09.180. (IF: 2.99)
6. Effect of thickness on nonlinear absorption properties of graphite oxide thin films V.G. Sreeja , Ajina Cheruvalathu , R. Reshmi , E.I. Anila , Sheenu Thomas, M.K. Jayaraj Optical Materials 60 (2016) 450-455. (IF:2.18)
7. Low temperature electrical conductivity and seebeck coefficient of nanostructured CuSe thin films with Ga addition, Anitha Abraham, Tarachand, Gunadhor S. Okram, Rajani Jacob, P.V. Sreenivasan, Rachel Reena Philip, DOI: .1016/j.Vacuum.2016.04.011(IF:1.55)
8. Effect of anionic concentration on the structural and optical properties of nanostructured ZnS thin films T A Safeera,N Johns and E I Anila,Optical Materials 58(2016) 32-37(IF:2.18)
9. Enhanced biocompatibility of ZnS:Mn quantum dots encapsulated with Aloe vera extract for therapeutic applications; M Anilkumar, K R Bindu,A Sneha Saj and E I Anila, Chin.Phys.B,vol.25, No.8(2016)088103(IF:1.603)

10. Zinc gallate and its starting materials in solid state reaction route-A comparative study,T A Safeera, N Johns, K Mini Krishna,P V Sreenivasan, R Reshmi and E I Anila; Materials Chemistry and Physics(2016)1-5).(IF 2.101)
11. Progress in anterior chamber angle imaging for glaucoma risk prediction–A review on clinical equipment, practice and research, VK Shinoj, XJJ Hong, VM Murukeshan, M Baskaran, A Tin Medical Engineering & Physics 38 (12), 1383-1391 (2016) (IF:1.6)
12. Delay signatures in the chaotic intensity output of a quantum dot laser with optical feedback, Bejoy Varghese, Manu P John and V M Nandakumaran, Pramana, Vol. 86, page 1021(2016).(IF 0.74)
13. Optoelectronic properties and seebeck coefficient in SnSe thinfilms" K.S.Urmila, T.A.Namitha, J.Rajani, R R Philip and B.Pradeep, Journal of semiconductors (IOP) (accepted)

2015

14. A Novel Cost Effective Fabrication Technique for Highly Preferential Oriented TiO2 nanotubes", Aijo John, Johns Naduvath, S.mallick, T.Shripathi, Manju Thankamoniamma and Rachel Reena Philip*, Nanoscale, 7, 20386-20390 (2015) (IF:7.76)
15. Tin Incorporation in $AgInSe_2$ Thin Films: Influence on Conductivity, R.Jacob, G.S.Okram, J.Naduvath, S.Mallick ,Rachel Reena Philip, *Journal of physical chemistry C*, 119 (10), 5727–5733 (2015) (IF:4.77)
16. Effect of Sn doping on properties of transparent ZnO thinfilms prepared by thermal evaporation technique", N.H.Sheeba,Sunil C.V,J.Naduvath, P.V.Sreenivasan,S.Mathew, Rachel Reena Philip, Chemical Physics Letters, 635, 290-294 (2015) (IF 1.963)
17. "Optical and low-temperature thermoelectric properties of phase-pure p-type InSe thin films", K.S.Urmilla,. T.A.Namitha, Rachel Reena Philip, B.Pradeep, Applied Physics A, 120, 675-681 (2015) (IF:1.704)
18. Low temperature fabrication and characterization of wurtzite structured ZnS quantum dots by chemical spray pyrolysis Journal of Analytical and Applied Pyrolysis Safeera, Thevaruparambil Abdulba; Anila, Edathottiyil Issac; Johns, Naduvath; Martinez, Arturo I; Sreenivasan, Perumpilly Velayudhan; Reshmi, Raman; Mallick, Sudhanshu; Jayaraj, Madambi 116(2015) 96-102. (IF:3.96)
19. Photoluminescence of Nanocrystalline ZnS Thin Film Grown by Sol–Gel Method E. I. Anila & T. A. Safeera & R. Reshmi J Fluoresc DOI 10.1007/s10895-015-1515-3. (IF:1.66)
20. Nanostructured zinc oxide thin film by simple vapor transport deposition P.V. Athma ,, Arturo I. Martinez ,, N. Johns , T.A. Safeera ,R. Reshmi , Anila E I Superlattices and Microstructures 85 (2015) 379–384. (IF:2.117)

21. In-vivo corneal imaging using optical imaging techniques for preclinical and clinical applications-An analysis, Jesmond Hong, V. K. Shinoj, V. M. Murukeshan, M. Baskaran and Tin Aung, , Review of Scientific Instruments, Volume 86, Issue 9, 093702(2015).(IF 1.62)
22. Irido-corneal angle and fundus documentation using a novel dual-mode imaging probe,M. Baskaran, V. K. Shinoj, V. M. Murukeshan and Tin Aung, , Investigative Ophthalmology & Visual Science, Volume 56, Issue 7, 1953 (2015). (IF:3.404)

23. An integrated flexible handheld probe for imaging and evaluation of iridocorneal angle,V. K. Shinoj, V. M. Murukeshan, M. Baskaran and Tin Aung, , Journal of Biomedical Optics, 20(1), 016014 (2015). (IF:2.859)
24. Structural and photoluminescence characterisation of dye doped polymethacrylate microfibers Parvathy R, Krishnaumar G, Anila E I, Sajeev U S IJARTET, Vol. II, Special issue X, March 2015 ISSN2394-3777(Print) ISSN 2394-3785 (Online) (IF:4.7)
25. 10.A Study on the Optical Properties of Dye Doped Polycaprolactone Microstructures' Krishnakumar G, Parvathy Radhakrishnan, E I Anila, U S Sajeev Aquinas Journal of Multidisciplinary Research Studies Volume1 Issue 1
26. Structural and Optical Properties of White Light Emitting ZnS:Mn^{2+} Nanoparticles at Different Synthesis Temperatures K R Bindu,' and E I Anila; J.of fluorescence, 25(4)(2015) 795-801; DOI 10.1007/s10895-015-1590-5 (2015) (IF1.66)

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27. Low Temperature Thermopower And Electrical Conductivity In Highly Conductive $CuInO_2$ Thin Films, Bindu G. Nair, G. S. Okram , Johns Naduvath, T. Shripathi, Anis Fatima, Tarachand Patel, Rajani Jacob, K. Keerthi, S. K. Remillard, and Rachel Reena Philip". Journal of Materials Chemistry C-2014, 2, 6765 (IF:4.69)
28. Highly conductive n- and p-type CuInO thin films by reactive evaporation, Surya A. Mary, Bindu G. Nair, Johns Naduvath, G.S. Okram, Stephen K. Remillard, P.V. Sreenivasan, Rachel R. Philip*" Journal of alloys and compounds.600 (2014) 159-161. (IF:2.99)
29. T. Namitha Asokan, K.S. Urmila, Rajani Jacob, Rachel Reena Philip, G.S. Okram, V. Ganesan, B. Pradeep, J. Semiconductors, 35 (2014) 052001-1(IF:0.739)
30. Hole Concentration Effect on the Microwave Nonlinearity of $Tl_2Ba_2CaCu_2O_{8\pm\delta}$ Superconducting Thin Films", M.M. Bischak, J. Thomas, R.R. Philip, and S.K. Remillard, Journal of Physics: Conference Series, 507 (2014) 012042.
31. Nonlinear optical characterization of ZnS thin film synthesized by chemical spray pyrolysis method. Sreeja V G, Sabitha P V, E. I. Anila, Reshmi R, Manu Punnan John, and P. Radhakrishnan 1620, 530 (2014); doi: 10.1063/1.4898292
32. Optical Emission Spectroscopic Analysis of Plasma Plume during Pulsed Laser Deposition of PZT, S Sasanka Kumar, R Reshmi, N V Joshy, A C Saritha and M K Jayaraj, Journal of Atomic and Molecular Physics, 1(2014).
33. Observation of Room Temperature Photoluminescence from Asymmetric CuGaO2/ZnO/ZnMgO Multiple Quantum Well Structures, P M Aneesh, M K Jayaraj, R Reshmi, R S Ajishma, L M Kukreja, Aldrin Antony, F Rojas, Joan Bertomeu, J Lopez Vidrier and S Hernandez, Journal of Nanoscience and Nanotechnology 14, 1(2014) (IF:1.556)

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40. "Structural, optical and electrical properties of Sb doped and undoped $AgIn_{1-x}Ga_xSe_2$ and $Ag(InGa)_5Se_8$ thin films" Rajani Jacob, Stephen K Remillard, Paul A. DeYoung, Uday P. Deshpande, T. Shripathi, V. Ganesan, Johns Naduvath, P. V. Sreenivasan, and Rachel Reena Philip*, Phys. Status Solidi A, 1–9 (2013) / DOI 0.1002/pssa.201330370(IF:1.605)
41. "Structural, optical, electrical and low temperature thermoelectric properties of degenerate polycrystalline Cu_7Se_4 thin films", K. S. Urmila, T. Namitha Asokan, R. R. Philip, V. Ganesan, G. S. Okram, and B. Pradeep*, Phys. Status Solidi B, 1–8 (2013) / DOI 0.1002/pssb.201349183(IF:1.605)
42. Structural Studies and Valence Band Splitting parameters in Ordered Vacancy Compound $AgGa_7Se_{12}$, Rajani Jacob, R. Geethu, T. Shripathi,V. Ganesan, U. P. Deshpande, Shilpa Tripathi, B. Pradeep, Rachel Reena Philip, J.Inorg.Organomet.Polym., 23 (2013) 424 (IF:1.174)
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55. Nanostructured ZnS powders with strong confinement effects prepared by colloidal precipitation method K R Bindu, Arturo I Martinez, Prathibha Vasudevan, N V Unnikrishnan and E I Anila, Physica E 46 (2012) 21-24
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68. Yellow Emitting Chitosan Capped ZnO Nanoparticles Synthesised by Wet Chemical Route ,T A Safeera, S Rekha and E I Anila; Global Nanotechnology Congress and Expo, April 21-23, 2016, Dubai, UAE
69. Effects of Cerium Doping on the Morphology and Photoluminescence of Calcium Sulfide Nanophosphors, S Rekha, T A Safeera,and E I Anila; Global Nanotechnology Congress and Expo, April 21-23, 2016, Dubai, UAE
70. Jesmond Hong, V. M. Murukeshan, V. K. Shinoj, M. Baskaran, and T. Aung, "Non-contact high resolution Bessel beam probe for diagnostic imaging of cornea and trabecular meshwork region in eye", European Conferences on Biomedical Optics 2015 (ECBO 2015), Munich, Germany, June 21-25, 2015.
71. M. Baskaran, V. K. Shinoj, V. M. Murukeshan and T. Aung, "Irido-corneal angle and fundus documentation using a novel dual-mode imaging probe", Annual Meeting of the Association for Research in Vision and Ophthalmology 2015 (ARVO 2015), Colorado Convention Center, Denver, Colorado, May 3-7, 2015.

72. V. K. Shinoj, V. M. Murukeshan, Jesmond Hong, M. Baskaran and T. Aung, "Dual-illumination mode, wide-field probe imaging scheme for imaging irido-corneal angle region inside eye", International Conference on Optics in Precision Engineering and Nanotechnology 2015 (ICOPEN 2015), Singapore Expo, April 14-16, 2015.
73. Jesmond Hong, V. K. Shinoj, V. M. Murukeshan, M. Baskaran and T. Aung, "In-vivo high resolution corneal imaging and analysis on animal models for clinical applications", International Conference on Optics in Precision Engineering and Nanotechnology 2015 (ICOPEN 2015), Singapore Expo, April 14-16, 2015.
74. V. K. Shinoj, James J., V. M. Murukeshan, M. Baskaran and T. Aung, "Recent progress in ophthalmic diagnostic imaging technologies", 1st EOS Topical Meeting on Frontiers in Optical Imaging (FOI 2013), (Poster presentation), Centre Loewenberg, Murten, Switzerland, Septembern 16 - 18, 2013.
75. V. K. Shinoj, V. M. Murukeshan, James J., M. Baskaran and T. Aung, "Micro-CCD based probe for eye imaging targetting anterior chamber angle", International Conference on Biomedical Systems, Signals and Images 2012 (BSSI 2012) (Poster presentation), Indian Institute of Technology Madras, India, November 28-December 1, 2012.
76. V. M. Murukeshan, V. K. Shinoj, M. Baskaran and T. Aung, "Diagnostic imaging of the Iridocorneal Angle for evaluation of Angle-closure glaucoma", EOS Annual Meeting 2012 (EOSAM-2012) (Poster presentation), Scotland, UK, September 25-28, 2012.
77. V. K. Shinoj and V. M. Murukeshan, "Numerical study on Transverse Optical Trapping Inside Hollow-core PCF", International Conference on Optics in Precision Engineering and Nanotechnology 2011 (ICOPEN 2011) (Poster presentation), Singapore.

DEPARTMENT OF PSYCHOLOGY

1. Name of the Department : Psychology

2. Year of Establishment : 1965

3. Names of Programmes /Courses offered Psychology and : B. Sc. Psychology, M. Sc. Ph.D. in Psychology

4. Names of Interdisciplinary courses and the Departments/units involved : The Department offers open course (Life Skills Assessment) for fifth semester CBCSS undergraduate students of the College.

5. Annual/ semester/choice based credit system : The Choice Based Credit and Semester System (CBCSS) of Mahatma Gandhi University for UG Psychology programme (6 semesters)

The Post Graduate Credit and Semester System (PGCSS) of Mahatma Gandhi University for PG Psychology programme (4 semesters).

6. Participation of the department in the courses offered by other Departments : Nil

7. Courses in collaboration with other universities industries, foreign institutions, etc. : Nil

8. Details of courses/programmes discontinued (if any) with reasons : Nil

9. Number of teaching posts : 7

Post	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	Nil	Nil
Assistant Professors	7	7

10. Faculty profile with name, qualification, designation, specialization, (D.Sc. /D.Litt. /Ph.D. / M. Phil. etc.)

Name	Qualification	Designation	Specialization	No. of Years of Experience
Ms. Malini R.	M.A	Asst. Professor	Child Psychology	12
Dr. Seena M. Mathai	M. Phil, Ph.D.	Asst. Professor	Sports Psychology	15
Dr. Neelima Ranjith	Ph.D., PDF	Asst. Professor & Head	Neuro Psychology	6
Ms. Syna Soosan Abraham	M.A.	Asst. Professor	Cognitive Psychology	8
Dr. Vidhya Ravindranadan	M. Phil, Ph.D.	Asst. Professor	Special Education Child Development	13
Dr. Marikutty P. J.	M. Phil, Ph.D.	Asst. Professor	Clinical Psychology	9
Ms. Shema Elizabeth Kovoor	M. Phil	Asst. Professor	Special Education & Counseling	8

11. List of senior visiting faculty :

1. Dr. Kiran Rao, Former Head, Department of Clinical Psychology, NIMHANS. Bangalore.
2. Dr. T. Thomas Philip, Former Principal and Head, Department of Zoology, Union Christian College, Aluva.
3. Sri. Rajan Mathai, Clinical Psychologist, Kusumagiri Mental Health Center, Ernakulam.
4. Mr. Shiju Joseph, Assistant Professor and Clinical Psychologist, Govt. College for Women, Thiruvananthapuram.
5. Rev. Thomas John, Former Head, Department of Psychology, Union Christian College, Aluva.
6. Dr. K. E. Leelamma, Former Head, Department of Psychology, Union Christian College, Aluva.

12. Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty : NA

13. Student -Teacher Ratio (Programme wise)

B. Sc. Psychology : 30:1
M. Sc. Psychology : 7:1

14. Number of academic support staff (technical) and administrative staff : Nil

15. Qualifications of teaching faculty with D. Sc/ D. Litt / Ph. D/ M. Phil / PG.

Name	Qualification
Ms. Malini R.	M.A
Dr. Seena M. Mathai	M. Phil, Ph.D.
Dr. Neelima Ranjith	Ph.D., PDF
Ms. Syna Soosan Abraham	M.A.
Dr. Vidhya Ravindranadan	M. Phil, Ph.D.
Dr. Marikutty P. J.	M. Phil, Ph.D.
Ms. Shema Elizabeth Kovoor	M. Phil

16. Number of faculty with ongoing projects from National and International funding agencies and grants received

b) National : Three faculties with Minor Research Projects funded by UGC

b) International : One faculty member has two projects funded by United Board of Christian Higher Education in Asia (UBCHEA)

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

Name	Topic	Funding Agency	Amount granted in INR
Dr. Seena M. Mathai	Enhancing Menopausal Adjustment among Rural Women using Effective Training Interventions	UGC	1,30,000
Dr. Neelima Ranjith	Enhancing Assertiveness in High School Students of Rural Areas	UGC	70,000
Ms. Syna Soosan Abraham	Promoting Mental, Physical, Sexual and Environmental Hygiene among Rural BPL Women through Life Skills Training.	UGC	70,000
	1. Mission Milieu: Religious Pluralism through Interfaith Dialogue. 2. Integrated Project for Sustaining Nature and Enriching Life	UBCHEA	3,00,000 60,000
Dr.Vidhya Ravindranadan	Problem Behaviour and Parental Mental Health: A Survey among Primary School Students.	UGC	65,000
Dr. Marikutty P. J.	Effectiveness of Life Skills Education in Enhancing Peace and Social Harmony among College Students	UGC	85,000
	Total amount		Rs.7,80,000/-

18. Research Centre /facility recognized by the University:

The Department has been recognized as a Research Centre under Mahatma Gandhi University, Kottayam in 2013. Three faculty members are research guides.

19. Publications: List attached as annexure I

20. Areas of consultancy and income generated:

- Counseling - Rs. 2500/-
- Psychological assessment – Rs. 2500/-
- Faculty members as resource person to training programs and public lectures – Rs. 2000/-

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards.

f) National committees

Ms. Malini R.

- Member, Board of Studies (Psychology), Mahatma Gandhi University, Kottayam.
- Member, Board of Studies (Clinical Psychology, PG), under the Faculty of Science, University of Calicut.
- Member, Board of Studies (Psychology-Pass), University of Kerala.
- Chairperson, Board of Question Paper Setters, University of Kerala and Kannur University.
- Member, Board of Question Paper Setters, University of Calicut and Farook College Kozhikode (autonomous).
- Member, Inspection committee for sanctioning new courses, Mahatma Gandhi University, Kottayam.
- Resource person to seminars, workshops, training programs and public lectures

Dr. Seena M. Mathai

- **NATIONAL SERVICE SCHEME, PROGRAMME OFFICER 2010-2013.**
- Research guide, Mahatma Gandhi University, Kottayam.
- Research guide, Bharathiar University, Coimbatore.
- Member, Board of Studies, Mahatma Gandhi University, Kottayam.
- Member, Board of Question Paper Setters, University of Kerala, University of Calicut & Farook College, Kozhikode (autonomous).
- Member, Inspection committee for sanctioning new courses, Mahatma Gandhi University, Kottayam.

Resource person to

- Institute of Management in Government.
- Rural Police Training Camp Kalamassery, Govt. of Kerala.
- Fisheries training Institute, Kadungallore, Govt. of Kerala.
- Technical Higher Education department, Govt. of Kerala.
- Survey Dept, Government of Kerala.

- Directorate of Collegiate Education, Govt. of Kerala.
- Kudumbashree entrepreneurship training programme.
- Seminars and workshops.

Dr. Neelima Ranjith

- Research guide, Mahatma Gandhi University, Kottayam.
- Research guide, Bharathiar University, Coimbatore.
- Member, Board of Studies, Mahatma Gandhi University, Kottayam.
- Member, Board of Studies, Rajagiri College of Social Sciences (Autonomous).
- Member, Board of Question Paper Setters, University of Kerala, Farook College, Kozhikode (Autonomous).

Resource person to

- Walk With a Scholar, Govt. of Kerala, Training for Mentors.
- Faculty Development Program, Union Christian College.
- Rajagiri Public School, Kalamassery.
- Seminars, workshops, training programs and public lectures.

Ms. Syna Soosan Abraham

- Member, Board of studies, Psychology, Mahatma Gandhi University, Kottayam
- Member, Inspection committee for sanctioning new courses, Mahatma Gandhi University, Kottayam
- Member, Panel of Experts- Aviation Security. CIAL, Cochin.
- Member, Board of Question Paper Setters, University of Kerala & University of Kannur.
- Staff coordinator, Service Learning Center and Pain and Palliative Care unit of Union Christian College.
- Resource person to seminars, workshops, training programs and public lectures.

Dr. Vidhya Ravindranadan

- Research Guide, Mahatma Gandhi University, Kottayam
- Research Guide, Bharathiar University, Coimbatore.
- Member, Inspection committee for sanctioning new courses, Mahatma Gandhi University.
- Member, Board of Studies, Mahatma Gandhi University, Kottayam
- Resource person to seminars, workshops, training programs and public lectures

Dr. Marikutty P. J.

- Chairperson, Women Commission, Student Christian Movement, Kerala.
- Staff Advisor, Student Christian Fellowship, Union Christian college , Aluva
- Resource person to conduct psychological assessment in Blind school, Keezhmadu.
- Resource person to seminars, workshops, training programs and public lectures.

Ms. Shema Elizabeth Kovoor

- Mentor, Walk With a Scholar Program, Govt. of K**e**rala
- Resource person to seminars, workshops, training programs and public lectures

22. Student projects

b) Percentage of students who have done in-house projects including inter departmental /programme:
    - UG - in house project 100%
    - PG - in house project 100%

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies:
    - One week compulsory clinical placement for final year undergraduate students in mental health centers
    - Skills training programs for second year undergraduate students
    - Three months internship for postgraduate students in clinical or educational settings

23. **Awards / Recognitions received by students**

Academic

International Recognition

1. Amal T. Anoop - selected for the student exchange program with International Christian University, Mitaka, Japan (2015) for a period of three months (a semester) in the College of Liberal Arts.
2. Haritha P. R. - Scranton Scholarship for Women Leaders and was also selected for Scranton Scholar's Leadership Program in Korea (2015).

University

1. Nisbin A. Khader - University topper in B. Sc. Psychology (2014) with A plus in all subjects

Co-Curricular

Best Paper Award

1. Vidya N. Comparative analysis of personality, leadership styles and emotional intelligence among today's most preferred professionals. 47th National and 16th International Conference of the Indian Academy of Applied Psychology, Toc H Institute of Science and Technology, Ernakulam, 15 – 17th June 2012.
2. Christina Mariam Chacko - Third Prize in the Young Scientist Competition held at Christ University Bangalore (2015).

Inter University

1. Amala Paul & Jincy George - First Prize in *Psychic Quiz* conducted at Sahrudaya College, Irinjalakuda, Kerala (2016)
2. Christina Mariam Chacko & Shahina H. - Third Prize in *Psychic Quiz* conducted at Sahrudaya College, Irinjalakuda, Kerala (2016)

Extra - curricular

1. Binu Susan Paul (UG, Psychology)
    - University Champion for three consecutive years in Judo (2013-15)
    - Intercollegiate champion in fencing (2013-14)

- Fencing - Second prize in (2014-15).
- Wrestling - Second prize (2014-15)
- Fencing - Second prize (2014-15)

2. Sherin Jose (PG/UG, Psychology)
   - Fencing – Second prize (2015)
   - Soft Ball - First prize (2014)
   - Judo – First Prize (2013)
   - Judo – Third Prize (2014)
3. Jiya Joseph (UG Psychology)- Mahatma Gandhi University Record holder for three consecutive years (2013- 2015), Five Gold & 3 Silver medalist in swimming
4. Jithin Jaise (UG Psychology) – Net Ball, Mahatma Gandhi University Champions (2013)
5. Jinson Alias (PG Psychology) - Second prize & 'A' grade in Collage making in Mahatma Gandhi University Youth festival
6. Amal. T. Anoop (UG. Psychology)- 'A' grade in light music in University Youth Festival (2014-15)
7. Jinson Alias (I M. Sc. Psychology) - Kalaprathibha in the college arts festival (2014-15)

Awards received by Teachers

Best paper Award

1. Seena M. Mathai. *Coping Skills as a Correlate of Athletic Performance.* 47th National and 16th International Conference of the Indian Academy of Applied Psychology, Toc H Institute of Science and Technology, Ernakulam, 15 – 17th June 2012.
2. Neelima Ranjith. *Gender Equality – A Myth or Reality? : A Psychological Perspective.* 47th National and 16th International Conference of the Indian Academy of Applied Psychology, Toc H Institute of Science and Technology, Ernakulam, 15 – 17th June 2012.

24. List of eminent academicians and scientists / visitors to the Department

International

1. Ms. Elizabeth Janet Laury, New York. - 20th August 2013.
2. Rev. Joseph Mitchell. Director of Passionist Earth Spirit Center. New York.
3. Leorna Jarvis, Professor and Head, Dept. of Psychology, HOPE College, USA.
4. Dr. Thomas Mathew. Former Psychologist to Rehabilitation of Delinquents. New Jersey. USA.

National

1. Dr. S. Ananthanarayanan, Former Director, Defense Research and Development Organization, India.
2. Hon. Justice Kemal Pasha, High court of Kerala.
3. Dr. V.C. George, President, Indian Association of Clinical Psychologists.
4. Dr. Kir0n Rao. Former Head, Clinical Psychology, NIMHANS. Bangalore.
5. Dr. George Mathew, Former Head, Department of Psychology, University Campus, Kariavattom.
6. Dr. S. Raju, Head, Department of Psychology, University Campus, Kariavattom, Thiruvananthapuram.

7. Dr. Razeena Padmam, Former Director, School of Behaviour Sciences. M. G. University, Kottayam.
8. Dr. T. Thomas Philip. Former Principal and Head, Department of Zoology, Union Christian College, Aluva.
9. Dr. M. K. Mathew, Former Head, Department of Psychology, K. E. College, Mannanam.
10. Dr. Sani Varghese, Clinical Psychologist, District Hospital, Kottayam.
11. Mr. Rajan Mathai. Clinical Psychologist, Kusumagiri Mental Health Center. Ernakulam.
12. Dr. Wilson P. C., Former Head, Department of Psychology. S. N. College Kollam.
13. Dr. Geethanjali Natarajan. Clinical Psychologist, AIMS, Kochi.
14. Mr. Anoop K. V. Clinical Psychologist, Kozhikode Mental Health Center.
15. Mr. S. Sreejith IPS. (DIG of Police). Chief Investigations officer (CIO) of the Kerala State Human Rights Commission.
16. Dr. Zacharia K. A., Former Director, Aligarh Muslim University, Kozhikode, Associate Professor, School of Management studies, Cochin University of Science and Technology.
17. Rev. Thomas John, Former Head, Department of Psychology, Union Christian College, Aluva.
18. Dr. K. E. Leelamma, Former Head, Department of Psychology, Union Christian College, Aluva
19. Adv. Jayasankar, Senior Advocate, High Court of Kerala and Popular Political Critic.
20. Dr. Jeevan Job Thomas. Writer and Researcher in Physics.
21. Ms. Reena Cherian, Reader, Department of Social Work, Delhi University.
22. Mr. Manoj Menon, Associate Professor, Rajagiri School of Management, Ernakulam
23. Mr. Shiju Joseph, Assistant Professor and clinical Psychologist. Govt. Women's College, Thiruvanathapuram.
24. Ms. Ajitha. Social activist and founder of 'Anweshi'.
25. Dr. Asha Rao. Associate Professor of Social Work. Vimala College, Trissur.
26. Mr. Manoj M. B. Trainer, Additional Skill Acquisition Program (ASAP), Govt. of Kerala
27. Dr. Prasad Sundhararajan, Alumnus, Union Christian College, Aluva.
28. Ms. Glarmina P., Counsellor, Mukthi Sadan, De-addiction Center.

25. Seminars/ Conferences/Workshops organized and, the source of funding: List attached as annexure II

26. Student profile programme/course wise:

B. Sc. Psychology

Name of the Course/programme	Applications received (in Management quota alone)	Selected (in Management quota alone)	Enrolled (Total)		Pass percentage
			Male	Female	
2011	30	7	8	20	86.00
2012	50	7	4	26	97.00
2013	61	7	8	20	ongoing
2014	82	7	10	24	ongoing
2015	120	8	4	32	ongoing

M. Sc. Psychology

Name of the Course/programme	Applications received (in Management quota alone)	Selected (in Management quota alone)	Enrolled (Total)		Pass percentage
			Male	Female	
2011	7	3	2	7	75
2012	8	4	2	15	33
2013	10	3	3	6	58
2014	12	3	3	12	ongoing
2015	25	4	1	15	ongoing

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other states	% of students from abroad
B.Sc.	97%	3%	-
M.Sc.	94%	6%	-

28. No. of students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc

UGC – JRF : 1
UGC – NET : 6
ICMR – JRF : 2

29. Student progression

Student Progression	**Against % enrolled**
UG to PG	70%
PG to M. Phil	30%
PG to Ph.D	20%
Ph.D. to PDF	-
Employed	
Campus Selection	NA
Other than campus recruitment	90%
Entrepreneurship / Self-employment	30%

30. Details of infrastructural facilities

i) Department library with computerized lending system –954 books & journals- (12 online and 2 hard copy)
j) Computer & Internet facility - Three desktops and three laptops with Wi-Fi facility.
k) Class rooms with ICT facility – One
l) Laboratories – One for under graduate and one for post graduate students.

31. Number of students receiving financial assistance from college, university, government and other agencies

1) E grants

Year	No. of Students
2010-2011	13
2011-2012	19
2012-2013	15
2013-2014	21
2014-2015	20

- Kuwait Alumni - 1
- UCCANA – 8
- Kano Yamomoto – 8
- Liberty & Trinity – 4
- Scranton - 1

32. Details on student enrichment programmes (special lectures/ workshops/ seminar) with external experts

International

- A talk on '*Society, development of self and geriatric care*" by Ms. Elizabeth Janet Laury, New York, 20 August 2013.
- A session on *New Cosmology* by Rev. Fr. Joseph Mitchell, USA
- Seminar on *'Psycholinguistics: Cognitive aspect of Bilingualism'* by Dr. Leorna Jarvis, Professor and Head, Department of Psychology, HOPE college, USA, 13 January 2015

National

- A talk on "*History and possibilities of clinical psychology*" by Dr. V. C. George, President, Indian Association of Clinical Psychologists.
- A talk on '*Paranormal Experiences and related Issues'* By Dr. George Mathew, Former Head, Department of Psychology, University Campus, Kariavattom.- 26 July 2012
- A talk on '*Adoption- Practices & Issues'* by Ms. Reena Cherian, Reader, Department of Social Work, Delhi University.
- Conducted Exhibition on '*Life Span Development'* on 25 - 26 July, 2013
- A talk on '*gender issues* by Rev. Thomas John, former Head, Department of Psychology, Union Christian College, Aluva.
- A talk on *'Research in the field of Creative Psychology'* by Dr. Prasad Sundhararajan, Alumnus, Union Christian College, Aluva.
- A talk on '*Alcoholism and Rehabilitation'* by Ms. Glarmina, Counsellor, Mukthi Sadan,
- *'Soft skills training workshop'* conducted by Mr. Manoj M. B., trainer of ASAP.

33. Teaching methods adopted to improve student learning

- Power point presentations, videos, group discussions, debates, quizzes, chart preparation, extempore activities, student seminars, remedial coaching, peer tutoring, field visits, preparation of skills training and awareness program modules and applying it, exhibitions, seminars, workshops etc were some of the teaching methods adopted.
- Weekly association meeting where students lead discussions, debates, quizzes, presentations of seminars attended service learning activities etc.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities.

A) Initiated the Pain & Palliative Care Unit

1. Organized get together of 20 Hemi paraplegia patients.
2. Volunteered at outreach programmes organized by different agencies.
3. Conducted awareness campaigns for Pain & palliative care and other disability services.
4. Day out and recreational programmes were organized for physically challenged.
5. Conducted surveys in the locality to identify people in need of palliative care, 5 such cases were linked with assistance.
6. Conducted fund raising programmes for treatment, equipments and other needs.
7. An outlet of *pallium* products in the campus for financial self reliance of Hemi paraplegia patients was started.
8. Donated wheel chairs.
9. Identified and provided emotional, physical and financial support for patients in nearby areas.

B) Organized Service learning activities in the following areas.

1. Alzheimer's Day care center:
    - Play therapy & music therapy for brain stimulation for inmates was conducted.
    - Assessment of cognitive abilities.
    - Provided social & emotional support to inmates and family.
2. 'We Care' special School:
    - Assessment of IQ and other cognitive functions were done.
    - Organized training classes for care takers and families of special children.
    - Volunteered at the programmes organized by the school.
    - Counselling was provided for family members.
3. Soft skills enhancement of students: to improve knowledge acquisition, communication and leadership skills.
    - Training and awareness classes for school students were conducted by graduate students on memory &learning techniques, sexual hygiene and substance abuse.
    - For BPL sections awareness classes on menopausal adjustment, health & hygiene practices were given.
4. Peer counseling : Students becoming helpers:
    - Training given to provide mutual assistance in academic & social skills deficits, emotional and adjustment problems.
5. Experiential learning programs: UBCHEA sponsored project
    - Visits to tribal community, migrant workers & BPL settlements, mental health centers were conducted to sensitize students to ground realities.

C) Counseling centre; Counselor is made available once in a week

- Life skills training for students.
- Counseling for needy students and their parents.
- Study skills training.
- Counseling for teachers/ non teaching

- Helping teachers to deal with problem children
- Conducting Psychological assessment
- Providing counseling for community

D) Surveys

- On attitude and awareness about mental illness and educating public in order to reduce stigma and enhance appropriate intervention for mental health problems.

35. SWOC analysis of the department and future plans.

Strengths

- Young dynamic faculty members with varied areas of interest and specialization enabling the department to meet diverse academic needs of the students.
- Syllabus with strong theoretical orientation and practical training- the effectiveness of which is proven by the number of NET/ JRF qualifications and 100% placement of PG students.
- Various skill development and community extension activities like service learning and pain and palliative care.
- High demand for the course as seen on higher number of applications and active, enthusiastic students.
- Rich collection of books, equipments and measures of Psychological assessment.
- Among the seven teachers, four have Ph. D, one awaiting syndicate approval after open defense and two are pursuing research.
- Recent up gradation of the department to research centre with three research guides and seven research students.
- Team work in the Department ensures smooth transactions in the department thus setting standards for students to emulate.
- Faculty members of the department are active in revamping the syllabi of many universities in and out of the state and three of them are research guides in other Universities.
- The services of the Counseling Centre.

Weaknesses

- There are no senior faculty members in the department with long years of service and expertise who can contribute to policy changes in government and university Inappropriate selection criteria set by the University prevent bright students with good language skills from getting admission to undergraduate course.
- Improper execution of academic calendar by the university makes it difficult to plan a proper schedule of courses provide and feedback of performance.

Opportunities

- Establish tie up with various institutions so that practical exposure and campus placement of students can be enhanced.
- Provide training for competitive exams.
- Collaboration with alumni and mobilization of financial and intellectual resources.
- Life skills training for students who are marginalized due to various reasons.

- Develop and standardize psychological measures.

Challenges

- Large number of students with poor language comprehension skills.
- Inadequate infrastructure.
- Inadequate funding.

Future Plans

- Establish a neuro-cognitive lab.
- Conduct counseling camps and skills training workshops in collaboration with Panchayath for adults and children.
- Signing Memorandum of Understanding with various institutions.
- Begin M. Phil. Course.

Mission:- ***Equip students with adequate skills, to live in harmony with self, others and nature, to instill in them a passion for academics and applying psychology for the service of humanity.***

Annexure I

LIST OF PUBLICATIONS

Number of papers published in peer reviewed journals (national /international) by faculty and students

Ms. Malini. R.

Conference Proceedings

1. Malini R. (2014). Study habits and goal orientation in relation to academic achievement, In *National Conference on Enhancing Psychological Well-being (NCPEW-2014)*, organized by Department of Psychology, Bharathiar University, Coimbatore, on 20 - 21 February 2014.
2. Malini R. (2012). Underachievement: Problems in identification and remediation, *47th national and 16th international conference of the Indian Academy of Applied Psychology*, Toc H institute of Science and Technology, Ernakulum, 15 – 17 June 2012.

Dr. Seena. M. Mathai

Publications in International Journal

1. Seena M. Mathai & Swathymol P. S. (2014). Demographic Correlates of Environmental Worry: An Explorative Investigation**.** *International Journal of Indian Psychology*, volume 2, issue 1, October. **Impact factor. 4.5.**
2. Seena M. Mathai. (2015). The Mediating Effect of Coping Styles on the Optimism Athletic Performance Relationship among Track and Field Athletes. *The International Journal of Indian Psychology*, Volume 2, Issue 2, No. 3, Jan- March. Pp.102-107. **Impact factor, 4.5**
3. Seena M. Mathai & Subramanyam, S. (2012). Locus of control correlates of coping skills among Athletes. *International journal of Multidisciplinary educational Research.* Vol (6).

Publications in National Journals

1. Seena M. Mathai & Vishnu Digambhar. (2014).Driving behavior among private and public sector bus drivers- A comparative study, *Journal of Research extension and development, Vol.2, No.8.*
2. Seena M. Mathai & John, P. K. (2014).Influence of perceived autonomy support on the motivation level of players, *Indian Journal of Psychology.*
3. Seena M. Mathai & John, P.K. (2014).The relationship of Anxiety and self efficacy with task orientation among athletes, *Indian journal of Health and Wellbeing.*

4. Seena M. Mathai. (2013). Big five correlates of mental toughness among track and field athletes, *Indian Journal of Psychology*, Special issue, January.

Conference Proceedings

1. John Varghese and Seena M Mathai. (2014). *Relationship of resilience with wellbeing among institutionalized and non-institutionalized women*. In Proceedings of 5th International Conference on Life skills education, organized by Loyola College, Thiruvananthapuram, 24-25 February 2014.
2. Akhil S. Kumar, Labeeb Mohammed, Syna Soosan Abraham and Seena M. Mathai. (2012). Issues in the holistic development of adolescents. *Handbook of Management and Behavioural Science* Vol.-VI. Wisdom publications, Delhi.
3. Paul John Konat and Seena M. Mathai. (2012). *Sensation seeking among high and low achieving varsity athletes.* Proceedings of the International conference on sports and Nutrition, MacMillan Publishers India Limited,
4. Seena M. Mathai and S. Subramanian. (2012). *Psychological correlates of athletic performance among track and field athletes.* Proceedings of the International conference on sports and Nutrition, MacMillan Publishers India Limited,
5. Seena M. Mathai. (2011). *The effect of personality and self esteem on job satisfaction.* In The Proceedings of UGC Sponsored National Seminar on Self Esteem and Mental Health Promotion among Teachers, organized By S. N. M Training College, Moothakunnam, Ernakulam in Association with Dept. f Psychology, Union Christian College, Aluva,

Dr. Neelima Ranjith

Publications in International Journals

1. Neelima Ranjith. (2013). Psychological Perspective on Gender Equality. *Zenith international Journal of Multidisciplinary Research*, Vol 3(7). July, pp156-160. **Scientific Journal Impact Factor 2013: 4.326**
2. Cinderlla V. P, Neelima Ranjith. (2012). Age difference between spouses and age at the time of marriage as contributing factors to marital adjustment. *International Journal of social Sciences and Interdisciplinary Research, Vol 32, July-Sept, pp 25-29.* **Impact Factor of IJSSIR, 3.503**

Publications in National Journals

1. P.S. Mathuranath, Annamma George, Neelima Ranjith, Sunitha Justus., et al. (2012) Incidence of Alzheimer's Disease In India: A 10 Year Follow – Up Study. *Neurology India, Dec, Vol 60, Issue 6,* Pages 625-630. **Impact Factor, 1.044**
2. Naila Abdul Karem & Neelima Ranjith**.** (2012). Face book Addiction among Youngsters of Kerala. *Indian Journal of Health and Well Being, Vol 2; Issue 5,* Page 1191-1201. **Impact Factor, 0.47**

Conference Proceedings in Pub med Indexed Journals & Souvenirs

1. Neelima Ranjith & Manju Madhu. (2012). *Parent - Child Relationship from the Child's Perspective*. In The Proceedings of UGC Sponsored National Seminar On Child Development, organized By Sree Sankaracharya University Of Sanskrit, Kalady, 22 – 24 February
2. Neelima Ranjith. (2011). *Mental Health Issues among Teachers - What You See Is The Tip of The Iceberg* in the Proceedings of UGC Sponsored National Seminar on Self Esteem and Mental Health Promotion among Teachers, organized By S. N. M Training College, Moothakunnam, Ernakulam in association with Department of Psychology, Union Christian College, Aluva.

Ms. Syna Soosan Abraham

National

Publication in Journal

1. Akhil S. Kumar, Mohammed Labeeb P., Syna Soosan Abraham & Seena M. Mathai. (2012). Issues in holistic development of adolescents. *Handbook of Management and Behavioural Science.* Vol.-VI. Wisdom publications, Delhi. ISBN: 978-93-81505-27-4.

Manual

1. Syna Soosan Abraham. (2012*). (*Editor & author) *Guidelines for implementation of peer counselling programs among students.* Department of Psychology, Union Christian College, Aluva.

Articles in Conference proceedings

1. Syna Soosan Abraham. (2014) *Survey on the health and hygiene practices of college students*, UGC sponsored National Seminar on 'Recent advances in life style diseases'. T.K.M. College, Kollam.
2. Meghna Sankar, Christina Mariam Chacko & Syna Soosan Abraham. (2014). *Psychological correlates of academic performance*'. UGC sponsored National Seminar on 'Counselling and Psychotherapy'. Prajyoti Niketan College, Pudukad, Trissur, Kerala.
3. Akhil S. Kumar, Mohammed Labeeb P. & Syna Soosan Abraham. (2012). *A survey on the road blocks to the holistic development of adolescents.* National seminar on 'Psychological Counseling: Practices, Problems and Prospects'. Government College for Women, Thiruvanathapuram, Sponsored by the Department of Collegiate Education, Kerala.
4. Praseetha Sukumaran & Syna Soosan Abraham. (2012). *Emotional intelligence: A comparative study on male and female college students.* National conference on 'Socio Cultural Prospects of Positive Psychology in India'. Little Flower Institute of Social Sciences and Health, Angamali.
5. Syna Soosan Abraham & Rohini Reghunath. (2012). *Awareness of health & hygiene practices*. International Conference of the Indian Academy of Applied Psychology. Toc H Institute of Science and Technology, Ernakulum.
6. Tanya Francis, & Syna Soosan Abraham, & Seena M. Mathai. (2012). *Optimistic attitude and happiness in life: An analytic study of the contribution of grandparents to personality development of children*. International Conference of the Indian Academy of Applied Psychology. Toc H Institute of Science and Technology, Ernakulum.
7. Divya Krishna, Iona Liz, Syna Soosan Abraham & Seena M. Mathai. (2012). *Influence of media exposure on proactive coping method among adolescents*. International conference of the Indian Academy of Applied Psychology. Toc H Institute of Science and Technology, Ernakulum.
8. Akhil S. Kumar, Mohammed Labeeb P. & Syna Soosan Abraham. (2011). *Attitude towards the use of corporal punishment and self esteem of higher secondary school teachers.* UGC sponsored National Seminar on 'Self Esteem and Mental Health Promotion among Teachers'. SNM training College, Muthakunnam, Ernakulam

Dr. Vidhya Ravindranadan

Publications in International Journals

1. Shony Mathew P. J. & Vidhya Ravindranadan. (2014).Vocational Rehabilitation of Mild Mentally Challenged Adults. *International Journal of Indian Psychology*, Volume 3, Issue 1, no. 6, Oct-Dec. **Impact factor, 4.5.**
2. Shony Mathew P. J. & Vidhya Ravindranadan. (2014). Behaviour Modification of mentally Challenged Adults with Computer Training. *International Journal of Business and Administration Research Review*. Vol. 1, Issue No. 3, Jan- March. Pp. 102-107.
3. Shony Mathew P. J. & Vidhya Ravindranadan. (2013). The Impact of Computer Training in the Competencies of Mild Mentally Challenged

Individuals. *International Journal of Current Research*. Volume 5, Issue 9, pp. 2654-2656. **Impact factor, 3.072**

Publications in National Journals

1. Vidhya Ravindranadan. (2012). Mental Health Status of Parents of Children with Special needs. *Indian Journal of Health and Wellbeing. 3 (2)* 543-545.
2. Shony Mathew P. J. & Vidhya Ravindranadan. (2012). Social Maturity of Trained and Untrained Mentally challenged Individuals, *Indian Journal of Health and Wellbeing, 3(2)* 540-542.
3. Vidhya Ravindranadan & Nishima J. S. (2012). Correlates of Self Esteem and Intelligence. A study on High School Students, *MISBAH*.
4. Vidhya Ravindranadan & Nishima J. S. (2012). Personality and Sibling Gender: An Analytical study on Female College Students. *Research Scholar.*
5. Vidhya Ravindranadan & Immanuel Thomas. (2011). State-Trait Anxiety, Spiritualism and Maladjustment in Relation to Phobia. *Indian Journal of Health and Wellbeing*.

Dr. Marikutty P. J.

1. Marikutty P. J. (2012). Ethical guidelines in counseling. In Abraham, S. S. *(*Editor & author) *Guidelines for implementation of peer counselling programs among students.* Department of Psychology, Union Christian College, Aluva.

Article in Conference Proceedings

1. Merin Valsan & Marikutty P. J. (2015). *Does emotional intelligence contribute to pathological internet use?* In proceedings of International Symposium on 'Evidence in Global Mental Health' held on 07-09, January at Rajagiri College of Social Sciences.
2. Marikutty P. J. (2012). *Emotional intelligence and its contribution to psychological well-being of adolescents*. In proceedings of UGC sponsored National seminar on 'Child Development' organized by Department of Psychology, Sree Sankaracharya University of Sanskrit, Kalady.

Chapter in Books: 5

1. Seena M. Mathai. (2014). The effect of psychosocial intervention in the management of menopausal complications. In *Reaching Our Voices-Psychology of Women.* Germany: Lambert academic Publishing
2. Neelima Ranjith. (2013). Clinical and demographic profile of degenerative dementia from a memory clinic in south Kerala. In Dhanya N. (Eds.), *Ageing and Society – A Multi Disciplinary Approach.* Excel India Publishers, New Delhi, ISBN: 978-93-82062-84-4.
3. Seena M. Mathai. (2012). Personality Development. In B.N Ghosh (Eds.) *Soft Skill Management and personality Development*, New Delhi: Tata Mc Graw Hill.
4. Seena M. Mathai. (2012) Decision making. In B.N Ghosh (Eds.) *Soft Skill Management and personality Development*, New Delhi: Tata Mc Graw Hill.
5. Neelima Ranjith (2012) Serial position curve. In Nobert M. Seal (Eds.), *Encyclopedia of Science of Learning, Part 19* (3050-3051). Springer Publication. **Citation index 35**

Book translation

1. Neelima Ranjith. (2013). *Self Instruction Material Psychology – Book 2* (Revised Version) at Secondary Level for National Institute of Open Schooling (NIOS) – Autonomous Organization under Ministry of HRD, Govt. of India

2. Vidya Ravindranadan. (2013). *Self Instruction Material Psychology – Book 1* (Revised Version) at Secondary Level for National Institute of Open Schooling (NIOS) – Autonomous Organization under Ministry of HRD, Govt. of India.

Books with ISBN/ISSN numbers with details of publishers

1. Seena M. Mathai. (2013) *Visual Imagery – A Threshold to Success: Blending Sports with Psychology*. Germany: VDM Scholar Press

Paper Presentations by students:

1. Sherin Jose. (2015). *Resilience and well being among Athletes and non athletes.* UGC sponsored National seminar on 'Health and Life style'. Department of Physical Education, Union Christian College, Aluva.
2. Thanooja Faisal & Seena M. Mathai. (2015). *Resilience and spirituality among athletes and non-athletes.*UGC sponsored National Seminar on 'Health and Life style'. Department of Physical Education, Union Christian College, Aluva.
3. Pranav Jacob & Marikutty P. J. (2015) *Emotional intelligence in athletes and non-athletes: A comparative study.* UGC sponsored national seminar on "Health and Life style". Department of Physical Education, Union Christian College, Aluva.
4. Rinsa Jacob & Chinnu Abraham. (2014). *Perceived loneliness among adolescents: A cross cultural perspective.* UGC sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.
5. Jain George, Jinson Elias & Neelima Ranjith. (2014). *Cyber Bullying among Adolescents*. UGC sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.
6. Shony Mathew P. J. & Vidhya Ravindranadan. (2014). *Vocational Rehabilitation of Mild and Moderate Mentally Challenged Adults*, UGC sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.
7. Merin Valsan & Marikutty, P. J. (2014) *Internet addiction among college students.* UGC sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.
8. Neelu Sunny & Neelima Ranjith. (2014). *Personality Characteristics Reflecting Achievement Motivation of Adolescents*, UGC sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.
9. Christina Mariam Chacko. (2014). *'Psychological correlates of academic performance'* UGC sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.
10. Christina Mariam Chacko (2014). *The contribution of academic performance to happiness and positive self-esteem among adolescents*, Christ University Bangalore.
11. Meghana Shankar, Christina Mariam Chacko & Syna Soosan Abraham. (2014). *Psychological correlates of academic performance*. UGC sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.
12. Rinsa Jacob & Shema Elizabeth Kovoor. (2014). *Perceived Loneliness among Adolescents- A Cross Cultural Perspective.* UGC sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.
13. Chinnu Abraham & Shema Elizabeth Kovoor. (2014). *Perceived Loneliness among Adolescents.* UGC sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.

14. Sherin Jose. (2014). *Resilience and well being among Athletes and non athletes* at the two day UGC sponsored National seminar on 'Counselling and Psychotherapy'. Prajyoti Niketan College, Pudukkad, Trissur, 5 - 6 December.
15. Swathymol, P. S. & Seena M. Mathai. (2014). *Relationship of self-efficacy and self –regulation on menopausal adjustment.* UGC Sponsored National Conference on 'Enhancing Psychological Well Being' (NCEPW2014), Department of Psychology Bharathiar University, 20-21 February.
16. Athulya Manohar & Seena M. Mathai. (2014). *Social Support as a Determinant Factor in Menopause Management.* UGC Sponsored National Conference on 'Enhancing Psychological Well Being' (NCEPW2014), Department of Psychology, Bharathiar University, 20-21 February.
17. Rohini V. S. & Seena M. Mathai. (2014). *Perceived stress among Private and KSRTC bus drivers.* UGC Sponsored National Seminar on 'Counselling and Psychotherapy, Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 – 6 December.
18. Thanooja Faisal & Seena M. Mathai. (2014). *Resilience and spirituality as correlates of psychological well-being*. UGC Sponsored National Seminar on 'Counselling and Psychotherapy, Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 – 6 December.
19. Sherin Jose & Seena M. Mathai (2014). *Resilience and well-being among athletes and non-athletes*. UGC Sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.
20. Jills Varghese, Swathymol P. S. & Seena M. Mathai. (2013). *Relationship of resilience with life satisfaction and sensation seeking among hockey players*. 23rd National Conference of Sports Psychology, 29-31 January, Christ College, Iringalakuda, Kerala.
21. Paul John Konat & Seena M. Mathai. (2013). *Anxiety and self- efficacy as predictors of task orientation among athletes*. 23rd National Conference of Sports Psychology, 29-31 January, Christ College, Iringalakuda, Kerala.
22. Pranav Jacob Varghese, Eldhose Mathai & Seena M. Mathai (2013). *Self-efficacy, resilience and humor as coping among athletes and non-athletes*. 23rd National Conference on Sports Psychology, 29-31 January, Christ College, Iringalakuda, Kerala.
23. John, P. K. & Seena M. Mathai (2013). *Perceived autonomy support and motives of physical activity as predictors of athletic performance*. National conference on 'Positive Psychology', Pondicherry University.
24. Ashya K. Salim, Nikitha Sunny, Vimal Y. Johnson & Seena M. Mathai (2013). *Enhancing Self Efficacy - the Role of National Service Scheme in the Enhancement of Self efficacy among college students*. National conference on 'Positive Psychology' Pondicherry University.
25. M. K. Arjunan & Seena M. Mathai (2013). *Mental health status, Locus of control and Perceived self-efficacy of adolescents from broken and intact families- A comparative study*. National conference on' Positive Psychology', Pondicherry University.
26. Vidya N. & Seena M. Mathai (2012). *Comparative analysis of personality, leadership styles and emotional intelligence among today's most preferred professionals*. National conference on 'Positive Psychology', Pondicherry University.
27. Tanya Francis, Syna Soosan Abraham and Seena M. Mathai. (2012). *Optimistic attitude and Happiness- An analytical study on the influence of grandparents in personality development in adolescence*. National conference on 'Positive Psychology', Pondicherry University.

28. Paul John Konat & Seena M. Mathai. (2012). *Sensation seeking among high and low achieving varsity athletes*. International Conference of Applied Psychology, Chandigarh University, 24-25 February.
29. Eldhose N. J., Rony Ninan Koshy & Seena M. Mathai (2012). *Self-esteem of Athletes and Non-Athletes*. International Conference of Applied Psychology, Chandigarh University, 24-25 February.
30. Xavier S. & Seena M. Mathai. (2012). *Predictors of self-efficacy among athletes*. International Conference of Applied Psychology, Chandigarh University, 24-25 February.
31. Jeena Johny & Seena M. Mathai. (2012). *Locus of Control and Self-Esteem among Television Professionals*. National conference on 'Positive Psychology', Social Integrity and Adolescence, 21 - 23 January.
32. Ashiya K. Salim, Nikitha Sunny & Seena M. Mathai. (2012). *Enhancing Self efficacy- the Role of National Service Scheme in the Enhancement of Self efficacy among college students*. National conference on 'Socio Cultural Prospects of Positive Psychology in India', Little Flower Institute of social Sciences and Health, Kozhikode
33. Akhil S. K, Labeeb P. K., Syna Soosan Abraham and Seena M. Mathai. (2012). *A survey on the road blocks to the holistic development of adolescents*. National seminar on 'Psychological counselling: Practices, Problems and Prospects', Govt. College for Women, Thiruvanathapuram, Sponsored by the Department of Collegiate Education
34. Akhil S. Kumar, Mohammed Labeeb P. K., Syna Soosan Abraham. (2012). *A survey on the road blocks to the holistic development of adolescents*. National seminar on 'Psychological counselling: Practices, Problems and Prospects', Govt. College for Women, Thiruvanathapuram, Sponsored by the Department of Collegiate Education.
35. Praseetha Sukumaran & Syna Soosan Abraham. (2012). *Emotional intelligence: A comparative study on male and female college students*. National conference on 'Socio Cultural Prospects of Positive Psychology in Indi'a, Little Flower Institute of Social Sciences and Health, Kozhikode.
36. Syna Soosan Abraham & Rohini Reghunath. (2012). *Awareness of health &hygiene practices*. International conference of the Indian Academy of Applied Psychology. Toc H institute of science and technology, Ernakulum.
37. Tanya Francis, Syna Soosan Abraham & Seena M. Mathai. (2012). *Optimistic attitude and happiness in life: An analytic study of the contribution of grandparents to personality development of children*. International conference of the Indian Academy of Applied Psychology. Toc H institute of science and technology, Ernakulum.
38. Vidya N. & Seena M. Mathai (2012). *Comparative analysis of personality, leadership styles and emotional intelligence among today's most preferred professionals.* 47th National and 16th International Conference of the Indian Academy of Applied Psychology, Toc H Institute of Science and Technology, Ernakulam, 15 – 17th June.
39. Divya Krishna, Aiona Liz, Syna Soosan Abraham & Seena M. Mathai. (2012). *Influence of media exposure on proactive coping method among adolescents.* International conference of the Indian Academy of Applied Psychology. Toc H institute of science and technology, Ernakulum.
40. Vidya N. & Neelima Ranjith. (2012). *Outlook towards Crime and Criminal Behaviour among Youth.* National Conference on 'Socio Cultural Prospects of

Positive Psychology in India', Little Flower Institute of Social Sciences and Health, Kozhikode, 23 -25th January.

41. Divya Krishna. (2012). *Anxiety and frustration tolerance: A comparative study between diabetic and non diabetic people*. Interdisciplinary Research Fair. ReAP (Research Advancement Program) organized by department of home science, St. Teresa's college, Ernakulam.
42. Akhil S. K, Labeeb P. K., Syna Soosan Abraham (2011). *Attitude towards the use* of *corporal punishment and self esteem of higher secondary school teachers.* UGC sponsored National Seminar on 'Self Esteem and Mental Health Promotion among Teacher's. SNM training College, Muthakunnam, Ernakulam, Kerala

Annexure II

LIST OF SEMINARS, CONFERENCES, AND WORKSHOPS

National Seminar

1. **'Religious pluralism: Establishing the etiquette for interreligious interactions',** 9 -10 July 2015. Sponsored by UBCHEA, with 61delegates from other institutions.

   Resource Persons:

   - Dr. Aju K. Narayanan. (Writer & Asst. Prof. of Malayalam. Union Christian College, Aluva). 'P*utting history into perspective*: *Socio-cultural foundation on which religions bloomed in India and exploring the scope for a pluralistic society'*.
   - Sri. S. Sreejith IPS. (DIG, State Human Rights Commission, Kerala). '*Breaking the deadlock: Taking proactive steps to deescalate communal tensions and law and order issues'*.
   - Dr. Jeevan Job Thomas. (Researcher & writer). '*Creating leeway: Resolving ideological disagreements in a pluralistic democratic setup.'*
   - Dr. Susan Thomas. (Asso. Professor of History, Sree Sankara University, Kalady) *'Looking for models: Case studies of amicable conflict resolution'*.
   - Dr. Jenee Peter. (Asst. Prof. of History. Union Christian College, Aluva). '*Religious Conflict resolutions: Peeping into past inter-religious dialogues and acknowledging secular and sacred spaces'*.

2. '**Psychology for Harmonious Living'**, Dr. V. K. Alexander Memorial Seminar on 30 -31 January 2015. Dept. of Psychology, Union Christian College, Aluva. 52 delegates from other institutions.

   Resource persons:

   - Dr. Sani Varghese (Clinical Psychologist, District hospital, Kottayam). *'Laying foundations in early childhood'*.
   - Mr. Shiju Joseph (Asst. Professor, Dept. of Psychology, Govt. College, Chittoor). *'Exploration of identity of youth: context and growth prospects'*.

- Dr. Razeena Padmam (Professor and Director, School of Behavioural Sciences, Mahatma Gandhi University, Kottayam). '*Taking Psychology to the masses'*.
- Dr. Geethanjali Natarajan (Clinical Psychologist, AIMS, Kochi). *'Enhancing psychological competencies in everyday living'*.
- Dr. M. K. Mathew (Professor and Head, Dept. of Psychology, Kuriakose Elias College, Mannanam, Kottayam). *'Work ethics and work values in Indian culture'*.
- Prof. Sreekumara Kurup P. R. (Former Head, Department of Psychology, St. Michael's College, Cherthala). '*Integrating elderly to everyday life'*.

3. **'Nirbhaya Resolve: A discourse on the Psychological matrix of gender based violence'**, 7 February 2014. Dept. of Psychology, Union Christian College, Aluva.
   Resource persons:
   - Dr. Kiran Rao. (Professor and former Head, Department of Clinical Psychology, NIMHANS, Bangalore). '*Psychological analysis of violence targeting women – conceptualization, evolution and intervention strategies'*.
   - Ms. K. Ajitha. (Founder of Anweshi, noted Social Activist). *The mindset that reacts with silence: 'Analysis of the socio-political atmosphere that condones aggression against women.'*
   - Adv. Jayasankar. (Social Critic and Media Analyst). *'A critical analysis of male perspective and media's handling of gender based violence.'*
   - Dr. Asha Rao. (Asso. Professor, Vimala College, Trissur). *'Relative advantage of sex education in the re-conceptualization of male-female interactions'*.
4. **'Religion Redux- a discourse on the social and cultural significance of religion on Kerala Psyche'**, 16 – 17 July 2012. Sponsored by UBCHEA, 23deligates from other institutions.
   Resource Persons:
   - Dr. N. M. Namboothiri. (Professor and Former Head of Malayalam, Gov. Pattambi College). *'Prototypes of religious harmony'*.
   - Mr. Sunil P. Elayadom. (Asso. Professor of Malayalam. Sree Sankara Sanskrit University, Kalady). *'Religion and Politics'*.
   - Mr. P. K. Sivadas. (Historian & Writer). '*Universal Religion'*.
   - Rev. Thomas John. (Former Head, Department of Psychology, Union Christian College, Aluva): *'Contemporary society and religious practices'*.
   - Dr V. George Mathew. (Former Head, Department of Psychology, University of Kerala, Kariavattom, Thiruvananthapuram). *'Religion, spirituality and superstition'*.
   - Prof. P. Geetha. *'Religion and gender'*.

5. **'Self Esteem and Mental Health Promotion among Teachers'**, UGC sponsored National seminar in collaboration with S.N.M. Training College, Moothakunnam, 4 - 5 August 2011.
   Resource Persons

- **Dr. R. Saravana Selvan**, Associate Professor & Head I/C, Dept. of English, Bharathiar University, Coimbatore. *The need for enhanced mental health to face the teaching challenges of the new millennium*
- **Dr. Krishna Prasad Sreedhar,** M.A., Ph. D., D. M & S. P. (NIMHANS), Former Professor of Psychology, University of Kerala, Kariavattom, Thiruvananthauram, *Mental Health Promotion of Teachers.*
- **Adhila Hassan**, Lecturer, School of Life Skills Education and Social Harmony, Rajiv Gandhi National Institute of Youth Development, Sriperumbudur, Tamil Nadu. *Life Skills for Managing Difficulties in Class Room Setting.*

Workshop

1. 'Workshop on Counselling skills and techniques', 17 - 18 February 2012. Sponsored by UBCHEA, 29 delegates from other institutions.
    - Dr. Kiran Rao (Professor and former Head, Department of Clinical Psychology, NIMHANS, Bangalore). Three training sessions on *'Counseling relationships, processes and techniques'.*
    - Mr. Anoop K. V. (Clinical Psychologist, Kuthiravattom Mental Health Centre, Kozhikode). *'Problems of youth and the role of peer counselor- A Counselor's perspective'.*
    - Ms. Maya Menon *(*Asst. Professor & Clinical Psychologist, Dept of Psychology, Union Christian College, Aluva). *'Counselor characteristics and students as peer counselors'.*
    - Dr. Marikutty P. J. (Asst. Professor & Clinical Psychologist, Dept of Psychology, Union Christian College, Aluva). *Ethical aspects of counseling'.*

DEPARTMENT OF ZOOLOGY

1. Name of the Department : Department of Zoology
2. Year Established : 1965
3. Names of the Programmes/Courses offered : 1. B.Sc. Zoology 2. M. Sc. Zoology
4. Names of inter disciplinary courses and the departments /Units involved : Department offers subsidiary papers for B. Sc. Botany and B. Sc. Psychology
5. Annual/ semester/choice based credit system: :
   - The Choice Based Credit and Semester System (CBCSS) of Mahatma Gandhi University for the B. Sc. Zoology (6 semesters)
   - The Post Graduate Credit and Semester System (PGCSS) of Mahatma GandhiUniversity for the M. Sc. Zoology (4 semesters).
6. Participation of the department in the courses offered by other departments: :
   - Teaches Open Courses
   - CES
7. Courses in collaboration with other universities, industries, foreign institutions: : Nil
8. Details of courses/programmes discontinued (if any) with reasons : Nil
9. Number of teaching posts : 8
10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.)

	Name	Qualification	Designation	Specialization	Teaching Experience
i.	Dr.Shirley Thomas	M. Sc. PhD.	Assistant Professor	Physiology (Marine Science)	10 years
ii.	Mrs. Rima Joseph	M. Sc.	Assistant Professor	Environmental Sciences	4 years
iii.	Ms.Elizabeth. V. Mathew	M. Sc.	Assistant Professor	Environmental Sciences	2 year
iv	Dr. Niladevi.K.N	M. Sc., Ph.D	Guest Faculty	Microbiology & Biochemistry	6 years
v.	Mrs. Sheena Jose	M.Sc	Guest Faculty	Entomology	6years
vi	Ms.AswathySivaraman	M.Sc	Guest Faculty	Environmental Sciences	-
vii	Ms. MeenuKurien	M. Sc	Guest Faculty	Fisheries Science	-
viii	Mrs. Sherin Ann Abraham	M. Sc	Guest Faculty	Fisheries Science	-
ix.	Ms. Merin P. Johny	M. Sc	Guest Faculty	Environmental Sciences	-

11. List of senior visiting faculty : Prof. N.C. Chacko, Dr. T. Thomas Philip & Prof. Jacob Kurian

12. Percentage of lectures delivered and practical classes handled by temporary faculty(programme wise) : UG - Total by Temporary faculty
PG - 1/4th by ….Temporary faculty

13. Student - Teacher Ratio (programme wise) : B. Sc. : 30:1
M. Sc. : 14:1

14. Number of academic support staff (technical) and administrative staff sanctioned and filled `:

Technical Staff		Administrative Staff	
Sanctioned	Filled	Sanctioned	Filled
Nil	Nil	03	02 (Lab Asst.)

15. Qualifications of teaching faculty with DSC / DLitt/PhD /MPhil/PG.

	Name	Qualification
1.	Dr.Shirley Thomas	M. Sc. PhD.
2.	Mrs. Rima Joseph	M. Sc.
3.	Ms.Elizabeth. V. Mathew	M. Sc.
4.	Dr. Niladevi K.N	M. Sc., Ph.D
5.	Mrs. Sheena Jose	M.Sc
6.	Ms. Aswathy Sivaraman	M.Sc
7.	Ms. Meenu Kurien	M. Sc
8.	Mrs. Sherin Ann Abraham	M. Sc
9.	Ms. Merin P. Johny	M. Sc

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : Two UGC Minor project grants
1. Dr. Shirley Thomas, Ph.D - Rs. 1.5 Lakh.
2. Mrs Rima Joseph, MSc - Rs 2.5 lakh.

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:

Sl. No	Name of the Investigator	Title of the Project	Amount	Funding Agency
1.	Dr. Shirley Thomas	Analysis of Biorhythm in man	Rs. 1.5 Lakh	UGC
2.	Rima Joseph	"A study on the effectiveness of solitary bees as pollinators when compared to honey bees in a vegetable cropland"	Rs 2.5 lakh	UGC

18. Research Centre/ facility recognized by the University : NA

19. Publications :
a) Publications per Faculty : Separate list Attached.
b) Number of papers published in peer reviewed journals (national/ international) by faculty and students :

20. Areas of consultancy and income generated : a. Sale of Vermicompost and seed species for Vermiculture.
b. Consultancy in Arachnology (Taxonomy of Spiders)
c. Consultancy in Vermicomposting.

d. Consultancy in Ornamental fish rearing and breeding.
e. Sale of ornamental fishes and aquarium plants (aquaponics).

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards:
    a. *International Committees* -
        1. Dr. Shirley Thomas is the Life Member of International – Marine Biological Association.
        2. Elizabeth V. Mathew is a member of American Arachnology Society.
    b. *National committees* –
        3. Dr. Shirley Thomas is the executive committee member of Zoological Society of Kerala.
        4. Elizabeth V. Mathew is a member of Malabar Natural History Society.
        5. Dr. Niladevi K. N. is a member of Biotech Research Society of India
    c. Educational Boards….
        6. Dr. Shirley Thomas is the Member, Zoology Board of Studies, M.G.University, Kottayam.
        7. Dr. Shirley Thomas is the Zoology Subject Expert Committee Member, M.G.University, Kottayam.

22. Student projects

a.	Percentage of students who have done in-house projects including interdepartmental/ programme	90%
b.	Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies	10%

23 Awards/Recognitions received by faculty and students

Dr. Shirley Thomas was awarded the Best NSS programme officers award by M.G.University, Kottayam

Achievements of III year B.Sc zoology students

- **Abdul Razaque M A** and **Reshma P S** won first prize and **Akhila Parvathy** and **Anju V S** won third prize in 'Naksh' intercollegiate collage making competition on 7 Feb 2017 organized by M C A Department, U.C.College
- **Mohammed Shaheed K** won third prize in University level water polo event held in M.A College, Kothamangalam on 17 October 2016.
- **Dilsha Davis** participated in NIC camp held at Malappuram from December 20 to 31, 2015 and she secured Surgeant rank.
- **Jeeva Dev** participated in interuniversity hockey tournament held at Chennai from 25th to 30th December 2016. She also participated in intercollegiate hockey tournament held at U C College, Aluva conducted on 10th and 11th December 2016.
- **Adithya Muraleedharan** secured First Prize in Photography Competition in "Genysis" – Intercollegiate competition held at S.H. College, Thevara
- He secured second Prize in Skit competition in "University Kalolsavam" held at Catholicate college, Pathanamthitta
- He secured second Prize in Skit competition in -Interuniversity south zone

competition held at Bangalore University on 19th December 2016.

- He also secured Fourth prize in skit Competition in Inter university Nationals held at Shivaji University Maharashtra on 13 February 2017

Achievements of II year B.Sc zoology students

- **Paul Thomas, Bibiya Varghese, Diana Denzil Rozario** has been selected to summer research fellowship conducted by the Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)
- **Paul Thomas, Rubeena P.N** has got third prize in inter –collegiate debate competition held at Bharath Mata college Thrikkakara on 9-12-2016 and also won first prize in inter-collegiate elocution competition held at Morning Star Home Science college, Angamaly on 14-6-2016
- **Paul Thomas, Arunlal, Jaihari** got third prize in quiz competition held at U.C College Aluva.
- **Bibiya Varghese** got first prize in Spell check competition conducted by the Zoological Society of Kerala, at St. Xaviers college, Aluva
- **Bibiya Varghese** got first prize in Radio talk competition conducted by the Zoological Society of Kerala, at St. Xaviers college, Aluva

24 List of eminent academicians and scientists /visitors to the department

1. Prof. S. Sitharaman Former HOD Chemistry, S.S.Kalady , President All Kerala River Protection Council)
2. Dr. Sreejith, K.A. Scientist, KFRI, Peechi.
3. Dr. Jacob Baby, MD, DTCD, MRCP(U.K). Pulmonologist, Aster Medicity, Kochi.
4. Dr T. Thomas Philip, PDF (Guelph), PDF (British Columbia) former Principal and HOD Zoology, U.C.College, Aluva.
5. Dr Mohan Kumar C, Director SCMS Kochi
6. Dr. Sajan Joseph, Research Director, Eli Lilly, USA in Microbiology Hall, Department of Biotechnology.USA
7. Dr. P.V. Joseph, Associate Professor, Dept of Chemistry, Maharajas College, Kochi.
8. Prof. Oommen Mathew, Founder Regional Director, Institute of Management in Government (IMG), Cochin.

25 Seminars/ Conferences/ Workshops organized & the source of funding

1. UGC sponsored National Seminar on " The Immune System in Health and Disease" conducted on 22nd September 2016

2. KSCSTE sponsored one day seminar on " Wetlands for Disaster Risk Reduction" conducted on 2nd February 2017.

3. A special in house Departmental workshop: A 2 day inter departmental workshop on Biotechnology, Biochemistry and Microbiology Techniques was conducted for BSc Zoology, Bsc BTSP and Msc students on 5 and 6TH Feb 2015.

26 Student profile programme /coursewise

Name of the Course/Program (refer question no.4)	Applications received	Selected	Enrolled		Pass - Percentage
			*M	*F	
BSc ZOOLOGY 2010-2011		27	10	17	25- 93
BSc 2011-2012		26	7	19	25- 96
BSc 2012-2013		23	3	20	20- 85

BSc 2013-2014		28	6	22	27- 96
BSc 2014-2015		28	3	25	23- 82
B.Sc2015-2016		28	2	26	20- 71
B.Sc 2016-2017		29	3	26	_
M.Sc ZOOLOGY 2014-2015		12	0	12	7- 58

27 Diversity of Students

Name of the Course	% of students from the same state	% of students from other states	% of stu abroad
BSc 2010-11	100%	-	-
BSc 2011-12	100%	-	-
BSc 2012-13	100%	-	-
BSc 2013-14	97%		4%
BSc 2014-15	100%	-	-

28 How many students have cleared national and state competitive examinations such as NET, SLET, GATE Civil services, Defence services, etc.

One student - Parvathy Surendran - 2011 batch

29 Student progression

Student progression	Against % enrolled
UG to PG	2011(14) 2012 (17) 2013(15), 2014(26), 2015 (20)
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post – Doctoral	-
Employed - Campus selection - Other than campus recruitment	
Entrepreneurship / self - employment	-

30 Details of Infrastructural facilities

8. Library — A small reference library for textbooks. 6 computers with internet.
9. Internet facilities for Staff & Students - 2 : I – UG and I – PG
10. Class rooms with ICT facility
11. Laboratories - 4 : UG and PG wetlabs and UG and PG computer labs

31 Number of students receiving financial assistance from college, university, government or other agencies

75%

1. International Scholarship- Total -12

2013-14 (7) ,2014-15 (2), 2015-16 (3)

2. National govt grants e-grants: 115 students benefitted for 5 years

3. E-GRANTS-- 2010-11 (21),

2011-12 (25), 2012-13 (14), 2013-14 (24), 2014-15 (31)

4. Departmental Scholarships:

20 students benefitted in the last 5 years

32 Details on student enrichment programmes (special lectures /workshops /seminar) with external experts

1. M Sc students attended KSCSTE sponsored seminar on "Micropropagation" on 17th February 2017 by Life Science Forum.
2. B Sc students attended KSCSTE sponsored one day seminar on " Wetlands for Disaster Risk Reduction" on 2nd February 2017 by the dept.
3. M Sc students attended a one day UGC sponsored National seminar on "The Immune System in Health and Disease" on 22nd September 2016 organized by the dept.
9. Msc students attended an orientation programme for life science research by Dr Mohan Kumar C, Director SCMS Kochi organized by Life Science Forum of the College.
4. MSc students attended a 2 day UGC sponsored national seminar on 'Molecular Taxonomy' organized by St Thomas College, Thrissur, on Sep 10 and 11, 2015.
5. M Sc. Zoology students attended UGC sponsored National Seminar "Trends in Biodiversity" on 2nd and 3rd Dec 2014 at St. Teresa's College, Ernakulam.
6. M.Sc. Zoology students attended a inspirational talk series-1, on "Designing of New Drugs" by Dr. Sajan Joseph, Research Director, Eli Lilly, USA in Microbiology Hall, Department of Biotechnology in June, 2014.
7. The B Sc students attended the State Seminar on "Biodiversity –Perspectives and Challenges" in Maharaja's College, Ernakulam on 26th and 27th November 2014.
8. They also participated in the 2 day National Seminar on "Urban Environment issues with special focus on Cochin" in Sacred Heart College, Thevara.
9. Five students of III B.Sc Zoology has attended a three day in house hands on training and workshop on Biotechnology held at M.A College, 2013 Kothamangalam.

33 Teaching methods adopted to improve student learning

- Internet aided videos and animations.
- Internet aided charts and figures.
- Debates
- Role play
- Virtual labs
- Jigsaw puzzle
- Mobile education
- Curriculum based competitions

34 Participation in Institutional Social Responsibility (ISR) and Extension activities

35. SWOC analysis of the department Future plans.

STRENGTHS

- Young, talented, dedicated and hardworking teachers
- Close knit group of teachers
- Support of former faculty
- Museum with a large collection of museum specimens
- Good Lab facility for UG
- Extensive field trips to study animal diversity
- Participation of students and staff in seminars and conferences
- Expert consultancy in animal diversity

WEAKNESSES

- Temporary faculty
- Funds and infrastructure for P.G.
- Research projects
- Department library
- Museum expansion

OPPORTUNITIES

1. Add on courses in

- Spider biology
- Rearing and breeding of animals like pet birds, rabbits, guinea pigs.
- Ornamental fish breeding and culture.
- Vermiculture, organic farming and waste management.

2. Extension activities –

- Health awareness campaigns,
- Vaccination programmes,
- Medical camps in campus

3. Animal diversity register.
4. Museum expansion.
5. Exhibition for schools and colleges.

CHALLENGES

- Funds.
- Infrastructure.
- Permenant appointments
- Quality of students.
- Lack of motivation to excel in academics/to pursue research.
- Lack of motivation to pursue research.

Goal

- To generate awareness of animal conservation among the young generation to protect, preserve and propagate forest, wildlife and environment.
- To study the Biodiversity of animals in the state and local fauna and to encourage the love for animals.
- To make the students familiar with the habits and habitats of wild animals and to observe them in the wild.
- To experience the various ecosystems they study as part of their curriculum.

- To make the students familiar with instruments used and methods followed in modern scientific laboratories and research institutes.
- To give hands on training to the students on the instruments with the help of experts in the field.
- To give hands on training to the students in animal rearing and breeding techniques by experts in the respective field.

List of Publications

1. Shirley Thomas, Jini Jimmy, Karmaly K.A, Sumesh S. (2016) Comparison of ant diversity in paddy agroecosystems of Kuttipuzha and Thottakkattukara of Ernakulam district. Discourse – Xaverian Research Journal 4(2): 843-97
2. Dr. Shirley Thomas.(2012). *Neurophysiology* in "Ecophysiology of Man" edited by Dr.A.K.Prema. Published by the Zoological Society of Kerala. Kottayam
3. Dr. Shirley Thomas.(2011). *Protistan diversity* in 'Invertebrate Diversity of Kerala''. Edts. Dr.A.K.Prema , Dr.MLJoseph & Dr. Vincent Terrence Rebello. Published by the Zoological Society of Kerala. Kottayam.
4. Dr. Shirley Thomas.(2011). *Fishes* in" Vertebrate Diversity of Kerala" Edts. Dr.A.K.Prema , Dr. Vincent Terrence Rebello and Mini.K.D. Published by the Zoological Society of Kerala, Kottayam.
5. Rima Joseph & John Joseph (2011). 'Efficacy of Wettable Powder (W.P.) formulation of *Bacillus thuringiensis var. israelensis* (Bti) in the control of Fourth Instar larvae of *Culex sitiens'*. Heartian Journal of Pure and Applied Sciences, Vol.1 (1):36-38
6. Lakshmi P & Rima Joseph (2012). 'The pollination ecology of *Ixora coccinea* L. (Rubiaceae)'. Biofest 2012- Abstracts. Sree Narayana College, Punalur, Kollam.
7. Rima Joseph & Thara K.Simon. (2013) A Preliminary Survey on Anthophiles of Selected Tropical Vegetable Crops". Journal of Palynology Vol. 49:1-6
8. Elizabeth, V. M., Sudhikumar, A. V. & Sebastian, P. A. (2012). Ultra structural comparison of spinneret morphology of two orb weaving spiders. *Explorations. Volume: 4 (1)*. 30 – 39.
9. Elizabeth, V. M., Sudhikumar, A. V. & Sebastian, P. A. (2012). A preliminary study on ultra structure of spinneret morphology of funnel web building spider *Hippasa pisaurina* Pocock, 1900 (Areaneae, Lycosidae). *Heartian Journal of Arts and Science*. 46-52.
10. Elizabeth, V. M., Sudhikumar, A. V. & Sebastian, P. A. (2014). Vertical stratification of spiders in Kuttanad rice agroecosystem, Kerala. Journal of Biological Control. 28(*2*):doi 10.18641/jbc/28/2/58303.
11. Elizabeth V. Mathew, M. K. Raju and P. A. Sebastian. Further description of *Cyrtophora bidenta* Tikader, 1970 (Araneidae) - an endemic spider species of India – first report from the Western Ghats. *Proceedings of the National Conference on Modern Trends in Zoological Research.*224-227. ISBN No. 978-81-909551-8-8.
12. Elizabeth, V. M**.,** & Sebastian, P. A. (2013). Ultra structural comparison of spinneret morphology of some orb weaving spiders. *Animal Diversity, Natural History and Conservation*. Vol. 3. Daya Publications, New Delhi.71-93. ISBN 978-81-7035-830-5
13. Elizabeth, V. M., & Sebastian, P. A. (2015). Throwing more light on morphology of *Cyrtophora bidenta* Tikader, 1970 (Araneidae) - an endemic spider species of India, with checklist of the genus from southern Western Ghats. *Animal Diversity, Natural History and Conservation*. Vol. 5. Daya Publications, New Delhi.75-84. ISBN 978-93-5124-616-9
14. Niladevi K.N. and Revathy T.V. (2015) Isolation of phosphate solubilizing bacteria from soil samples and its effect on plant growth in field trials. Discourse – Xaverian Research Journal 3(2): 4-12
15. Midhula M, Shyla M.H, and Niladevi K.N (2016) Biopesticidal activity of *Verticillium lecanii* against cowpea aphid (Aphis craccivora). Discourse – Xaverian Research Journal 4(2): 1-13.

DEPARTMENT OF COMPUTER SCIENCE

1. Name of the department : Computer Science

2. Year of Establishment : 2010

3. Names of Programmes / Courses offered : BSc Computer Science

4. Names of Interdisciplinary courses and the departments/units involved

Following are the courses:

- UGC Sponsored Add on Career oriented program-
  "Structured Information processing and Network Applications"
  The syllabus is designed in such a way that the student can divert to data processing operator, webpage designer, album designer or a network administrator. Completion of first year makes him a Certificate holder, second year a Diploma holder and third year an Advanced Diploma holder.
- **Additional Skill Acquisition Program (Train the Trainers)** – ASAP is a program sponsored by Government of Kerala in which students are equipped to be industry ready , or to make them self sufficient to start their professional career. The department functions as Master Trainers who train the Skill Development Executives (SDE's) to equip them with technical skills for handling the IT Sessions.
  Further the SDE's handle classes in English, IT and other specialized areas in Higher Secondary Schools.
- **Me and My Computer** – This is a short term course conducted by the department to Arts background students to make them comfortable with using computers.

5. Annual/ semester/choice based credit system (programme wise)

- The Choice Based Credit and Semester System (CBCSS) of Mahatma Gandhi University for the B. Sc. Computer Science (6 semesters)

6. Participation of the department in the courses offered by other departments
Students of our department attend open courses of other aided departments.
The Department of Computer Science offers the Open course titled **'Internet, Web designing and Cyber Laws'.**

7. Courses in collaboration with other universities, industries, foreign institutions, etc. : NIL

8. Details of courses/programmes discontinued (if any) with reasons :
NIL

9. Number of Teaching posts

	Sanctioned	Filled
Professors		
Associate		
Asst. Professors	05	05

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	No Of years Experience
Mr. Cijin K Paul	MCA , NET	Assistant Professor, HOD	6
Ms. Gincy Abraham	ME, NET	Assistant Professor	4
Ms. Asha Das	MTech , NET	Assistant Professor	4
Ms. Elizabeth Thomas	MSc , NET	Assistant Professor	4
Ms. Greeshma K	MSc , NET	Assistant Professor	4

11. List of senior visiting faculty : NIL

12. Percentage of lectures delivered and practical classes handled(programme wise)

by temporary faculty : UG – Theory : 15%
UG – Practical : 10%

13. Student -Teacher Ratio (programme wise) : 18 : 1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled : Sanctioned: 1

Filled: 1

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

:

Sl. No.	Name	Qualification
1	Mr. Cijin K Paul	MCA , NET
2	Ms. Gincy Abraham	ME, NET
3	Ms. Asha Das	MTech , NET
4	Ms. Elizabeth Thomas	MSc , NET
5	Ms. Greeshma K	MSc , NET

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : Minor Research Project : 1

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received
UGC –Minor Research Project – 2015-'16 - 4.2 lakhs initiated by Mr. Cijin K Paul

Nature of the Project	Duration Year From T	Title of the project	Name of the funding agency	Total Grant		Total grant received till date
				Sanctioned	Received	
Minor projects	1.5 yrs	Creation of an ambient picture	UGC	Rs.4,60,000/-	Rs.4,20,000/-	Rs.4,20,000/-

18. Research Centre /facility recognized by the University : NO

19. Publications:
a) Publication per faculty

Author	Title	Journal/Conference	Impact Factor
Mintu Philip and Asha Das	Survey: Image Encryption using Chaotic Cryptography Schemes	*IJCA Special Issue on Computational Science - New Dimensions & Perspectives* (1):1–4, 2011. Published by Foundation of Computer Science	*0.814*
Asha Das and Teena George	Secure Wireless Video Streaming Using Network Coding	International Conference on Information Security 2011	
Mintu Philip and Asha Das	A New Bluetooth Security Architecture	CCEIT, 2011, Springer CCIS 204, pp 507-515, 2011	
Greeshma K	Social Development through Technical Education	ISTE Convention, 2014	
Gincy Abraham	Information Communication technology in tourism and hospitality industry	Conference proceedings, 2016	

Number of papers published in peer reviewed journals (national /international) by faculty and students : One

20. Areas of consultancy and income generated :

KPSC is a body which recruits employees to state government services. They conduct test for different posts and the department offered a course for detailed understanding of the concepts of Computer Science(for HSST Computer Science exam) so that the applicants become capable of answering questions in the test by the Kerala Public Service Commission. Out of 40 participants 15 of them are short listed by the commission.

Income generated : Rs 40000/-

The department offered **NET coaching** to aspiring students from outside the college, even though the Department is a UG department.

Income generated : Rs 15000/-

21. Faculty as members in

a)National committees b) International Committees c) Editorial Boards: NIL

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme

All the students are encouraged to work and complete the projects in the department. The students are provided all the facilities in the computer lab (internet, necessary software and hardware).

Some Projects are implemented by the students for automating some department related tasks (Library Management, Attendance and Feedback System etc).

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

Around 55% of the students are placed every year for projects after the course and they get absorbed by the industry.

The students are placed in the following reputed IT companies like Infosys, Wipro, IBM, TCS, CTS etc and in various private banks.

23. Awards / Recognitions received by faculty and students

- Mr. Cijin K Paul has served as
  - Member, Board of Studies, Calicut University (2012-16)
  - Member, Question Paper Setter's Panel of Kerala University.

- Member, Inspection Committee for allocation of new courses in MG University
- Member, Question Paper Setter's Panel of Calicut University.

24. List of eminent academicians and scientists / visitors to the department :

1. Mr. Sandeep K, Soft Skills Trainer, Bangalore
2. Professor Oommen Mathew , IMG Regional Centre Kakkanad
3. Dr T Thomas Philip, Former Principal, U C College, Aluva

25. Seminars/ Conferences/Workshops organized & the source of funding)

a)National/ State : One ,

- Digital India – Facts and Practices - Mr Bruce Mathew , Asst. Professor, MCA , U C College, Aluva
- Workshop on LaTex - Mr. Hari S, Asst. Prof, Rajagiri School of Engineering and Technology

b) International : Nil

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	**Applications received**	**Selected**	**Enrolled**		**Pass percentage**	Year
			M	**F**		
BSc Computer Science	CAP	30	14	16	96	2012
BSc Computer Science	CAP	30	13	17	84	2013
BSc Computer Science	CAP	31	16	15	89	2014
BSc Computer Science	CAP	31	17	14	75	2015
Add-on Course	50	30	16	14	80	

27. Diversity of Students

Year	Total Strength	General	SC/ST	Other State	Female	Male
2015	31	26	4	1	15	16
2014	30	26	4	0	17	13
2013	30	25	4	1	16	14
2012	30	25	4	1	15	15
2011	19	17	2	0	10	9

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : NIL

29. Student progression

Student progression	Against % enrolled
UG to PG	40%
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	
Employed • Campus selection • Other than campus recruitment	55 %
Entrepreneurship/Self-employment	2%

30. Details of Infrastructural facilities

a) Library

The Department Library has a collection of around 350 books which consists of books from main library, department purchased books and complimented books.

The students get exclusive access to the library resources.

b) Internet facilities for Staff & Students

Internet facility is available in the staff room as well as in the computer lab.

c) Class rooms with ICT facility

Department have sufficient number of laptops (4) and projectors(3) to engage classes for students and thus the audio visual media makes teaching effective.

d) Laboratories

The Computer Lab is fully air conditioned with internet facility.

There are twenty desktop machines which have fifth generation processors with LED monitors and interconnected as Local Area Network.

The students can access the lab facilities whenever required.

31. Number of students receiving financial assistance from college, university, government or other agencies : 35 students

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts.

1) An Orientation session was conducted for the first year students.
   Resource person: Mr. Sandeep K, Soft Skills Trainer, Bangalore
2) Career oriented guidance class was arranged for the final year students.
   Resource person: Professor Oommen Mathew, IMG Regional Centre Kakkanad
3) Good Learning Practices.

   Resource Person: Dr T Thomas Philip, former Principal, U C College, Aluva

4) Digital India – Facts and Practices
   Resource Person : Mr Bruce Mathew , Asst. Professor, MCA , U C College, Aluva

   Digital India Week 2015, a one day event was conducted by the department which included various events like seminars, quiz, poster and photography Competition.
   Students from various departments of the college participated in the events. The Department also assisted Akshaya Center for making provisions for students and teachers for creating Digital Locker.
5) Project development – Mr Biju Francis, NIIT Aluva

6) Android Systems - Mr Saneesh L , Aptech Aluva

7) PHP –Advantages – Mr Biju Dominic , GTec Perumbavoor

8) Interview Skills and Techniques – Mr. Alby, Senior Manager, Zion Consultancy

33. Teaching methods adopted to improve student learning

The teachers in the department are using different methods of teaching and evaluation which includes group discussions, power point presentations, including expert lectures along with the syllabus, access to e-learning resources, peer study environment, Remedial Classes and Bridge Courses etc.
The new methods adopted in teaching increase the student involvement and learning in the class.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Students are actively involved in extracurricular activities such as sports, games and other personality development clubs. Also one of our students represented the

Republic Day Parade in 2013 representing NCC of the college. Also the department actively participates in "Haritha Varsham", the project of tree planting by the college.

NCC cadets : 18
NSS Volunteers : 20

35. SWOC analysis of the department and Future plans

Strengths

- Since the student teacher ratio is 18:1 , personal attention can be given to the students which helps learning.
- Due to availability of ICT, we have good subject delivering capability.
- Young and sincere faculty members, who upgrades their knowledge regularly.

Weakness

- Time constraint to deliver full topic to students.
- Since the department is UG only, lack of research is evident.
- Inadequate fund for extracurricular activities

Opportunities

- Collaboration with National and International Organizations
- Imparting value education
- Utilization of alumni resources
- Minor research projects
- Organize national level seminars annually

Challenges

- Dedicated smart rooms has to be implemented to make Teaching learning excellent.
- Falling standards of students due to entry level constraints
- Value erosion of student community

Future plans:

1. To organize seminars which are UGC sponsored.
2. To start MSc Computer Science in aided/self financing stream.
3. To enhance learning facilities through website notes and interactive quizzes.
4. Implementing e-Learning for student.
5. Digital Library access.
6. Automating the Library System.
7. To start a Mobile Application Development Center.
8. Collaboration with National and International Organizations
9. Utilization of alumni resources
10. Apply for more Minor research projects
11. Organize national level seminars annually

DEPARTMENT OF PHYSICAL EDUCATION

1. Name of the department: Physical Education

2. Year of Establishment: 1931

3. Names of Programmes / Courses offered: Nil

4. Names of Interdisciplinary courses and the departments/units involved
The department offers open course (Physical Education – Physical, Health and Life Skill Education) for fifth semester CBCSS Undergraduate students of the college.

5. Annual/ semester/choice based credit system (programme wise): NA

6. Participation of the department in the courses offered by other departments
The department offers open course(Physical Education – Physical, Health and Life Skill Education) for fifth semester CBCSS Undergraduate students of the college.

7. Courses in collaboration with other universities, industries, foreign institutions: Nil

8. Details of courses/programmes discontinued (if any) with reasons: Nil

9. Number of teaching posts (PERMENENT)

Sanctioned	2
Filled	2

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

Name	Qualification Designation	Specialization	No. of Years of Experience
Dr.Anil Thomas Koshy	M.P.Ed,Mphil, Ph.D	Physical Education	21
Dr.Bindu.M	B.P.E,M.P.E,Ph.D	Physical Education	9

11. List of senior visiting faculty- FACULTY VISITS FROM EMENENT INSTITUTIONS

1. Dr.Jayashree Acharaya Head- Dept. of Sports Psychology Lakshmibai National Institute of Physical EducationGovernment of India Shaktinagar,Gwalior – 474002 Madhya Pradesh	Resource Person for UGC sponsored National Conference on **"Health and Lifestyle"** -5th to 7th March 2015.
2. Dr.S.Sivasankaran Professor Sree Chitra Tirunal Institute Medical Sciences and TechnologyTrivandrum	Resource Person for UGC sponsored National Conference on **"Health and Lifestyle"** -5th to 7th March 2015.
3. Dr.Shailaja Mohan Head – Department of Sports Psychology Lakshmibai National College of Physical	Resource Person for UGC sponsored National Conference on **"Health and Lifestyle"** -5th to 7th March 2015.

Education Trivandrum	
4. Prof.Usha Sujith Nair Head – Department of Exercise Physiology Lakshmibai National College of Physical Education Government of India Trivandrum	Resource Person for UGC sponsored National Conference on **"Health and Lifestyle"** -5th to 7th March 2015.
5. Dr.Binu Areeckal Assistant Professor in Community Medicine Medical College, Kottayam	Resource Person for UGC sponsored National Conference on **"Health and Lifestyle"** -5th to 7th March 2015.
6. Dr.K.Chandrasekaran Chairperson School of Education Professor & Head Department of Physical Education Madurai Kamaraj University, Madhurai	Resource Person for UGC sponsored National Conference on **"Health and Lifestyle"** -5th to 7th March 2015.
7. Dr.Jaideep Menon Consultant Cardiologist Amritha Institute of Medical Sciences, Edappally & Sree Narayana Institute of Medical Sciences, Chalackal, Paravur	Resource Person for UGC sponsored National Conference on **"Health and Lifestyle"** -5th to 7th March 2015.
8. Mr.Brahma NayakamMahadevan Special Educator, Motivational Speaker Sahajeevan, Kaniyapuram, Trivandrum	Resource person for the Career Guidance and Counseling classes for Physical Education Department students on 25.07.2015.
9..Dr.George Mathews M.B.B.S,DPMR,Dip.N.B(PMR) Assistant Professor L.N.C.P.E,Trivandrum	UGC Sponsored National Workshop on **Sports Injuries – 21st March 2011**
10.Dr.Arshad.A.A BAMS,PG.DIP SPSN CSM –International Olympic Committee TPDC(Asian Federation of Sports Medicine) Integrated Sports Medicine Specialist Daisman Ayurkendra Kuruppath,Kondotty	UGC Sponsored National Workshop on **Sports Injuries – 21st March 2011**
11.Dr.Binu George Varghese Assistant Director and Head School of Physical Education and Sports,M.G.U - Kottayam	UGC Sponsored National Workshop on **Sports Injuries – 21st March 2011**
12.Dr.Tony Daniel Lecturer International Association of Athletic Federation	Our promoter
13.Shri.P.J.Sunny Chairman Selection Committee -BFI	Our promoter

12. Student -Teacher Ratio (programme wise)

UG	N/A
PG	N/A

13. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Sanctioned	Nil

Filled	Nil

14. Qualifications of teaching faculty

Name	DSc	D.Litt	Ph.D	MPhil	
Dr.Anil Thomas koshy			2016	MPhil	
Dr.Bindu.M			2005-Physical Education		

Faculty development Programme

Name	Details
Dr.Bindu.M	Refresher Course in interdisciplinary offered by Calicut University –UGC sponsored special summer school programme from 06.05.2015 to 26.05.2015.

15. Number of faculty with ongoing projects from (funding) agencies and grants received

	National	International
Dr.Bindu.M	UGC-Minor Project – 1.5lakh	

16. Departmental projects funded by; etc. and total grants received

DST - FIST	UGC	DBT	SAP	ICSSR	OTHER
	Minor Project – 1.5lakh				

17. Research Centre /facility recognized by the University: nil
18. Name of research scholars: Nil
19. Citation index and impact factor
20. Honors and awards to the faculty and students:

Faculty

Anil Thomas Koshy	1. Convener Hockey - 35th National Games 2. Vice President Kerala State Netball Association 3. Associate Vice President Kerala State Hockey Association
Dr.Bindu.M	1. Recipient of JRF-1999-2000 2. Technical Official – 2010 Common Wealth Games 3. Athletics-Technical Official 35th National Games 4. Treasurer Ernakulam District Netball Association

Students

Sl.No	**Name**	**Year**	**Level of Sports participation**	**Position**
1	Vineetha George	2010-11	Senior National Softball championship – Chandigarh	Gold
2	Revathy Retheesh	2010-11	Senior National Softball championship – Chandigarh	Gold
3	Athira Anil	2010-11	South West Zone All India Inter Varsity Football championship held at Gwalior	Silver
4	Vineetha George	2011-12	**Represented India in the Senior Asian Softball Championship**	
5	Revathy Retheesh	2011-12	**Represented India in the Senior Asian Softball Championship**	
6	Arun.C.D	2012-13	Senior National Softball	Silver

			championship – Pondhicherry	
7	Vineetha George	2012-13	Senior National Softball championship – Pondhicherry	Gold
8	Revathy Retheesh	2012-13	Senior National Softball championship – Pondhicherry	Gold
9	Harikrishnan,	2012-13	Senior South-Zone Netball Championship	Bronze
10	Josemon.P.P	2012-13	Senior South-Zone Netball Championship	Bronze
11	Ithisham Quarashi	2012-13	Senior South-Zone Netball Championship	Bronze
12	Unni P.R	2012-13	8th Invitation National super Eleven Cricket championship held at Uthrakand	Silver
13	Vishnu.M.S	2012-13	8th Invitation National super Eleven Cricket championship held at Uthrakand	Silver
14	Alina.V.Kumar	2012-13	South Zone All India Inter University Women Hockey Championship	Bronze
15	Reshma.K.V	2012-13	South Zone All India Inter University Women Hockey Championship	Bronze
16	Shylajababu.E	2012-13	South Zone All India Inter University Women Hockey Championship	Bronze
17	Sinisha.T	2012-13	South Zone All India Inter University Women Hockey Championship	Bronze
18	Bijina.V	2012-13	South Zone All India Inter University Women Hockey Championship	Bronze
19	Saranya.M.V	2012-13	South Zone All India Inter University Women Hockey Championship	Bronze
20	Arathy J Prakash	2012-13	South Zone All India Inter University Women Hockey Championship	Bronze
21	Rimisha.M.P	2012-13	South Zone All India Inter University Women Hockey Championship	Bronze
22	Smruthiprabhakaran.M.K	2012-13	South Zone All India Inter University Women Hockey Championship	Bronze
23	Princyraj.P	2012-13	South Zone All India Inter University Women Hockey Championship	Bronze
24	Sirajunnisa.T.K	2012-13	South Zone All India Inter University Women Hockey Championship	Bronze
25	Saikrishna.T	2012-13	South Zone All India Inter University Women Hockey Championship	Bronze
26	Jincy.C.F	2012-13	South Zone All India Inter	Bronze

			University Women Hockey Championship	
27	Vishnu.T.C	2013-14	senior south Zone Softball championship	Silver
28	Aswathy.M.R	2013-14	senior south Zone Softball championship senior national softball championship	Gold Silver
29	Amrutha Santhosh	2013-14	Junior National Hockey championship	Silver
30	Sindhu.M.R,	2013-14	Junior National Hockey championship	Silver
31	Mridhularaj,	2013-14	Junior National Hockey championship	Silver
32	Pratheesha.K	2013-14	Junior National Hockey championship	Silver
33	Vysnavi Radhakrishnan	2013-14	Junior National Hockey championship	Silver
34	Shilpa catherene	2014-15	**Senior Asian Baseball championship at Tokyo**	
35	Josemon.P.P	2014-15	35th National Games Netball Championship	Bronze
36	Sam Mathew	2014-15	35th National Games Netball Championship	Bronze
37	Maryn P. Jose	2014-15	35th National Games Netball Championship	Bronze

21. Internal resources Generated

Sponsorship	60000.00

22. Publications:

Sl.No	Name of the author	Name of the article	National/International	Journal
1	Dr.Bindu.M	Effect of short term Aerobic exercise programme on self esteem and Body Image of Sedentary College Women	National	Peer refereed quarterly Inter disciplinary research journal Vol.5No.1 (ISSN 2249-6696)
2	Anil Thomas Koshy & Dr.Bindu.M	Effects of yoga on mood state of adolescent girls with sedentary life style		Yoga: A panacea for lifestyle diseases *proceedings of the UGC national seminar*
3	Anil Thomas Koshy			

Faculty Name	Number of papers published in peer reviewed journals (national /international) by faculty and students	publications listed in International Database (For Eg: Web of Science, Scopus,Humanities International ,Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)	Monographs/Books
Anil Thomas Koshy	1		
Dr.Bindu.M	1		Peer refereed quarterly Inter disciplinary research journal Vol.5No.1 (ISSN 2249-6696)

23. List of eminent academicians and scientists / visitors to the department

Name	Purpose and date
1.Dr.Jayashree Acharaya Head- Dept. of Sports Psychology Lakshmibai National Institute of Physical Education Government of India Shaktinagar,Gwalior – 474002 Madhya Pradesh	Resource Person for UGC sponsored National Conference on **"Health and Lifestyle"** -5th to 7th March 2015.
2.Dr.S.Sivasankaran Professor Sree Chitra Tirunal Institute Medical Sciences and Technology Trivandrum	Resource Person for UGC sponsored National Conference on **"Health and Lifestyle"** -5th to 7th March 2015.
3.Dr.Shailaja Mohan Head – Department of Sports Psychology Lakshmibai National College of Physical Education Trivandrum	Resource Person for UGC sponsored National Conference on **"Health and Lifestyle"** -5th to 7th March 2015.
4.Prof.Usha Sujith Nair Head – Department of Exercise Physiology Lakshmibai National College of Physical Education Government of India Trivandrum	Resource Person for UGC sponsored National Conference on **"Health and Lifestyle"** -5th to 7th March 2015.
5.Dr.Binu Areeckal Assistant Professor in Community Medicine Medical College, Kottayam	Resource Person for UGC sponsored National Conference on **"Health and Lifestyle"** -5th to 7th March 2015.
6.Dr.K.Chandrasekaran	Resource Person for UGC sponsored National

Chairperson School of Education Professor & Head Department of Physical Education Madurai Kamaraj University, Madhurai	Conference on **"Health and Lifestyle"** -5th to 7th March 2015.
7.Dr.Jaideep Menon Consultant Cardiologist Amritha Institute of Medical Sciences, Edappally & Sree Narayana Institute of Medical Sciences, Chalackal, Paravur	Resource Person for UGC sponsored National Conference on **"Health and Lifestyle"** -5th to 7th March 2015.
8.Mr.Brahma NayakamMahadevan Special Educator, Motivational Speaker Sahajeevan, Kaniyapuram, Trivandrum	Resource person for the Career Guidance and Counseling classes for Physical Education Department students on 25.07.2015.
9..Dr.George Mathews M.B.B.S,DPMR,Dip.N.B(PMR) Assistant Professor L.N.C.P.E,Trivandrum	UGC Sponsored National Workshop on **Sports Injuries – 21st March 2011**
10.Dr.Arshad.A.A BAMS,PG.DIP SPSN CSM –International Olympic Committee TPDC(Asian Federation of Sports Medicine) Integrated Sports Medicine Specialist Daisman Ayurkendra Kuruppath,Kondotty	UGC Sponsored National Workshop on **Sports Injuries – 21st March 2011**
11.Dr.Binu George Varghese Assistant Director and Head School of Physical Education and Sports,M.G.U - Kottayam	UGC Sponsored National Workshop on **Sports Injuries – 21st March 2011**
12.Dr.Tony Daniel Lecturer International Association of Athletic Federation	Our promoter
13.Shri.P.J.Sunny Chairman Selection Committee - BFI	Our promoter

24. Seminars/ Conferences/Workshops organized & the source of funding

National -Conference /Seminars	International -Conference /Seminars
UGC sponsored National Conference on **Health and Lifestyle**-5th to 7th March 2015.	
UGC Sponsored National Workshop on **Sports Injuries – 21st March 2011**	

25. Student profile programme/course wise: Nil

26. Diversity of Students: Nil

27. How many students have cleared national and state competitive examinations?

Year	NET,	SLET	GATE	Civil services	Defense services	Any other

28. RESULTS

Year	Inter National Participation	National Participation	AIU Participation	State Participation	MGU Positions	University Rankings
2011-12	2	18	43	32	**Winners** Hockey(M&W),Softball(W), Baseball(W) **Runners Up** Cricket (W),Net Ball (M).,Judo (W) **Third** Baseball (M),Football (W) Tennis (W)	3rd
2012-13		15	49	38	**Winners** Hockey (M/W),Softball (W) Cricket (M) ,Baseball (W) **Runners Up** Judo (W) ,Net Ball (M)	4th
2013-14		27	55	50	**Winners** Hockey (M/W).,Softball(M) Baseball (M) ,Netball (M),Judo (W) ,Waterpolo (M) Fencing (W) **Runners – up** Softball & Baseball(W) Aquatics(W),Judo (W) **Third** Aquatics(M)	5th
2014-15					**Winners** Baseball(M) ,Hockey (M/W) Netball (M),Softball(M),Water polo(M) **Runners-up** Judo (W),Fencing(W) **Third** Judo(W) ,Softball(W)	

29. Student progression:
N/A

30. Details of Infrastructural facilities

Sl:No	Sports Infrastructure	No
1	Football Field 110×75M	1
2	Volleyball Court	1
3	Hockey Field	1
4	Basketball Court	1

5	Tennis Mud court	1
6	200M Track	1
7	Cricket Field	1
8	Cricket practicing net	1
9	Hills for training	1
10	Gymnasium 1. Seated bench press – 1 2. Leg extension curl – 1 3. Preacher curl -- 1 4. Olymbic bar -- 4 5. Free weight - 40 6. Dumbells -- 10 7. Lateral Pulley -- 1 8. Seated rowing pulley-1 9. Standing leg press - 1 10. Seated calf raise - -1 11. Vertical Knee raise and chinning bar – 1 12. Universal bench press ---1 13. Dumbells stand ---1 14. Free weight stand ---1 15. Barloading stand---1 16. Dumbells crome plated---160kg 17. Free weight rubberized –285kg 18. Ankle weight --2kg 19. Gymball Nivia – 2 20. Kettle ball—4kg-2 21. Weight lifting belt –1 22. Skipping rope –5 23. Yoga mat—1 24. Judo mats-27	1
11	Multipurpose indoor stadium	1
12	Sports Pavilion	1

31. Number of students receiving financial assistance from

Year	Government	College Management
2010-11	11	19
2011-12	16	27
2012-13	15	19
2013-14	13	22
2014-15	22	24

32. Details on student enrichment programmes with external experts: Nil

To prepare the college team to various championships the following experts are supporting us:

Name	**Discipline**	**Qualification**
Mr.Ravi Varma	Hockey	Kerala State Sports Council Coach
Mr.Soly Xavier	Football	Asian Football Federation – **B License**
Nr.Arshad.A.A	Softball/Baseball	Senior National Player and our former student
Mr.Devassy	Volleyball	National Champion and retired premier tyres employee
Mr.Sanu Varghese	Judo	Senior National Player and our former student and National referee in Judo

33. Teaching methods adopted to improve student learning

Theory sessions:

The rules of the games and sports are taught through lecture method using audio visual aids and power point presentations.

For the open course students the lecture method accompanied by group discussions, seminar, audio visual aids and by test papers are used.

Practical sessions:

The sports specific skills of the students are improved through observation, demonstration and trial and error methods. The skills in the games are again improved through practice matches with experienced teams and also by video analysis of the game.

34. Teacher's appraisal:

Name of faculty	2010-11	2011-12	2012-13	2013-14	2014-15
Anil Thomas Koshy	√	√	√	√	√
Dr.Bindu.M	√	√	√	√	√

35. Community service

programme	Date/participants
Cricket coaching camp for school students	On all saturdays
Karate coaching camp for community	On Tuesdays and Thursdays
Rollerskating Camp	On all Fridays
Summer coaching camps in Hockey	April

36. Feedback from students: are collected

37. Feedback from Parents:Nil

38. Future plans

FIVE STRENGTHS

1. Play fields
2. Support from the students
3. Best coaches and trainers are appointed on contract basis
4. Support from the management

WEAKNESSES

1. Shortage of supporting staff
2. Deficiency in adequate funding
3. Sports hostel for boys
4. Tapping the various agencies of sports funding

FIVE OPPORTUNITIES

1. Utilization of alumnae
2. Tapping the various agencies of sports funding

FIVE CHALLENGES

1. To construct multipurpose indoor stadium.
2. Men's Sports Hostel.
3. To make our hockey field to Astroturf.
4. To raise the fund for Physical Education department.
5. To make health profile of the college students.

DEPARTMENT OF BIOTECHNOLOGY

1. Name of the department **BIOTECHNOLOGY**

2. Year of Establishment: 2002

3. Names of Programmes / Courses offered

UG	B.Sc Biological Techniques & Specimen preparation
PG	M.Sc Biotechnology

4. Names of Interdisciplinary courses and the departments/units involved

Public health ,Nutrition & Human Genetics (open course)

5. Annual/ semester/choice based credit system (programme wise)

UG	B.Sc Biological Techniques & Specimen preparation
PG	M.Sc Biotechnology
M. Phil.	
Ph.D.	

6. Participation of the department in the courses offered by other departments

Information Technology (Dept of Electronics & Computer maintenance), Insurance & Risk management (Dept of Commerce)

7. Courses in collaboration with other universities, industries, foreign institutions.

Synthite,Kolenchery	Training programme in Plant tissue culture for two weeks
MOSC,Medical College, Kolenchery	Training programme in clinical Biochemistry & Microbiology

8. Details of courses/programmes discontinued (if any) with reasons

Nil	

9. Number of teaching posts (PERMANENT)

Sanctioned	06
Filled	06

10. Faculty profile with name, qualification, designation, specialization, (D.Sc. /D.Litt./Ph.D. / M. Phil. etc.,)

Name	Qualification Designation	Specialization	No. of Years of Experience
Mr.Varghese Thomas .K	M.Sc ,NET Assistant Professor	Biotechnology	4 years & 9 months
Mrs.Jyothilekshmi .S	M.Sc Assistant Professor	Biochemistry	6 years & 4 months
Mrs.Asha.M.P	M.Sc ,NET Assistant Professor	Biotechnology	1year& 6 months
Mrs.Anju .V.Nair	M.Sc Assistant Professor	Biochemistry	1 year &7 months
Dr.Sareen Sarah John	M.Sc,M.Phil, PhD Assistant Professor	Microbiology	7 months
Mrs.Ahna Ameer	M.Sc	Zoology	5 months

	Assistant Professor		
Mrs.Titty Giss	M.Sc Guest Lecturer	Zoology	4 months
Miss.Geethu Paul	M.Sc Guest Lecturer	Biotechnology	4 months

11. List of senior visiting faculty- FACULTY VISITS FROM EMINENT INSTITUTIONS

Prof.P.Jacob Kurien	Former Head of the Department of Zoology, U.C.College, Aluva
Dr.T.Thomas Philip	Former Principal, U.C.College, Aluva
Prof.P.J.Aleyamma	Former Head of the Department of Botany, U.C.College, Aluva

12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty.

Programme	Percentage of lectures handled
B.Sc BT &SP	9%
M.Sc Biotechnology	12%

13. Student -Teacher Ratio (programme wise)

UG	15:1
PG	9:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Sanctioned	3
Filled	3

15. Qualifications of teaching faculty

DSc	D.Litt	Ph.D	MPhil		
		01	01		

16. Number of faculty with ongoing projects from (funding) agencies and grants received

	National	International
Mrs.Jyothilekshmi	Nil	One Project funded by UBCHEA to in 2014 Funded ₹2.16 lakhs

17. Departmental projects funded by; etc. and total grants received

DST - FIST	UGC	DBT	SAP	ICSSR
Nil	Nil	Nil	Nil	Nil

OTHER
Project funded (UBCHEA) Mrs.Jyothilekshmi in 2014 Funded ₹2.16 lakhs

18. Research Centre /facility recognized by the University

Nil

19.Publications.

Dr.Sareen Sarah John	**1.** "Downstream Processing of Phytase from *Bacillus* MCCB 242 employing Aqueous Two Phase Extraction"- Sareen Sarah John, Ramya R Nair, I. S. Bright Singh, Journal of Biotechnology & Biomaterials, Vol.5 (6), Page No. 290 (2015) (ISSN:2155-952X)

	2. "Larvicidal Potential of Biologically Synthesised Silver Nanoparticles against Aedes Albopictus" - Sareen Sarah J., Pillai Raji K., Chandramohanakumar N and Balagopalan M, Vol. 1(ISC-2011), 52-56 (2012) Res.J.Recent.Sci. (ISSN 2277 – 2502) **3.** "Vermifugal Activity of Biofabricated Silver Nanoparticles" - Pillai Raji K., Sareen Sarah John, Toms Joseph C, Chandramohanakumar N and Balagopalan M, Vol. 1(ISC-2011), 47-51 (2012) Res.J.Recent.Sci. (ISSN 2277 – 2502)

20. Areas of consultancy

Nil

21.Faculty as members in

Dr.Sareen Sarah John is a member of expert committee, Board of studies- Zoology, Mahatma Gandhi University

22. Publications:

Faculty Name	Number of papers published in peer reviewed journals (national /international) by faculty and students	publications listed in International Database	Monographs/Books
Dr.Sareen Sarah John	3		

23. Honors and awards to the faculty

Dr.Sareen Sarah John	PhD awarded from School of Environmental Studies, Cochin University of Science & Technology

24. List of eminent academicians and scientists / visitors to the department

Name	Purpose and date
Dr. K.Muraleedharan Dr. B. Dinesh Kottakkal Arya vaidya sala	UBCHEA sponsored seminar entitled "Alcoholism and liver" was conducted on 4th June, 2015
Dr. Sarala Samuel, Head,Research & Developement, Kerala Ayruvedic Ltd.	UBCHEA sponsored seminar entitled "Scientific explanation on Ayurvedic Drug Dosage" was conducted on 5th June, 2015.
Dr. Sajan Joseph, Research Director, Eli Lilly, USA	Seminar entitled "Designing of New Drugs" was conducted on 4 th June, 2014.

25. Seminars/ Conferences/Workshops organized & the source of funding

National -Conference /Seminars	International -Conference /Seminars
Seminar entitled "Scientific explanation on Ayurvedic Drug Dosage"	UBCHEA sponsored seminar
Seminar entitled "Liver And Alcoholism"	UBCHEA sponsored seminar

26. Student profile programme wise:

Name of the programme	B.Sc Biological techniques and Specimen preparation (2012--15)
Applications received	29
Selected	26
Male/ Female	10/16
Pass percentage	84.62%

Name of the programme	M.Sc Biotechnology (2013-15)
Applications received	20
Selected	18
Male/ Female	2/16
Pass percentage	72.2%

27. Diversity of Students:

Name of the programe	% of students from the same state	% of students from other states	% of students from abroad
I UG	100	0	0
II UG	100	0	0
III UG	100	0	0
I PG	95	5	0
II PG	100	0	0

28. How many students have cleared national and state competitive examinations?

Year	NET,	SLET	GATE	Civil services	Defense services	Any other
2011	01	Nil	Nil	Nil	Nil	

29. Student progression:

Student progression	Against % enrolled
UG to PG	80%
PG to MPhil	Nil
PG to PhD	22%
Employed Campus selection	33%
Entrepreneurship/Self employment	13%

30. Details of Infrastructural facilities

Internet facilities for staff and students.	Total number of class rooms	Library	Tutorial rooms	Class rooms with ICT facility	Students' laboratories	Research laboratories
For the Department Staff Room	5	1	5	0	5	0

31. Number of students receiving financial assistance from

College	University	Government	other agencies:
		UG-5	

UCCAANA Scholarship UG-1 PG-1		PG-4	

Financial assistance from the department /scholarships	2011-12		2012-13		2013-14		2014-15		2015-16	
	UG	PG	UG	PG	UG	PG	UG	PG	UG	PG
	1	1	1	1	1	1	1	1	1	1

32. Details on student enrichment programs with external experts

Special lectures	Workshops	Seminar
Seminar entitled "Smart study skills" by Dr.T.Thomas Philip(former PrincipaL,U.C.College) on 22nd July, 2015	Workshop entitled "Scientific model preparation of human organs and organelles" was conducted in September, 2014 for I BT &SP students	Seminar entitled lectures on herbal medicines by Dr. M. Manoj, Medical Officer ,Department of Indian System of Medicine, Govt. of Kerala on 29th October2014.

33. Teaching methods adopted to improve student learning

Power-point Presentations	Demonstrations through models and experiments.	Black-board teaching	Hands-on experience with molecular-modeling and graphics.	Case-studies on related topics
Yes	Yes	Yes		

34. Participation in Institutional Social responsibility and Extension activities.

Ayurvedic camp was conducted in collaboration with Arya vaidya sala, Kottakkal on 4th June,2015.

All the residential of the Karumallor gramapanchayath were invited for the camp.

35. SWOC analysis of the department

STRENGTH	WEAKNESS	OPPURTUNITIES	CHALLENGES
✓ Only subject experts are appointed as faculties ✓ Department is having good infrastructure with well-equipped lab ✓ Classrooms are provided power point projectors ✓ Complete assessment of each student is ensured by class teachers ✓ Value education	• Department is not upgraded to AICTE norms	➢ In collaboration with job consultancies, campus recruitment is provided ➢ NET oriented classes is provided	✓ To make healthy student-teacher relationship ✓ By effective teaching methods,100% pass percentage is to be attained

classes are added during the tutorial group sessions ✓ Feedback is taken from students after completion of each internal examinations ✓ Open house is conducted in the midst of each semester			

36. Future plans.
- ✓ Department is aiming to accomplish 100% pass percentage.
- ✓ Smart classrooms to enhance learning facilities.

DEPARTMENT OF BIOINFORMATICS

1. Name of the department : Bioinformatics

2. Year of Establishment : 2005

3. Names of Programmes / Courses offered : PG- M.Sc Bioinformatics.

4. Names of Interdisciplinary courses and the departments/units involved : Nil

5. Annual/ semester/choice based credit system (programme wise)
   The Choice based Credit and Semester System (CBCSS) of MG University for PG Course (4 semesters)

6. Participation of the department in the courses offered by other departments: B.Sc. BT & SP, M.Sc. Biotechnology.

7. Courses in collaboration with other universities, industries, foreign institutions-Nil.

8. Details of courses/ programmes discontinued (if any) with reasons - Nil

9. Number of teaching posts (PERMANENT)

Sanctioned	04
Filled	04

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

Name	Qualification Designation	Specialization	No. of Years of Experience
Mr. Shyam Mohan	M.Sc.,M.Phil Assistant Professor	Biochemistry	11
Ms. Mary Jose	M.Sc., Assistant Professor	Microbiology	5
Ms. Merin Rejoy	M.Sc., Assistant Professor	Bioinformatics	4
Ms. Chinju John	M.Tech, Asst. Professor	Bioinformatics	1

11. List of senior visiting faculty- Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty.- 5%

13. Student -Teacher Ratio (programme wise) : M.Sc Bioinformatics – 6 : 1

Sanctioned	1 (Lab Technician)

14.

Filled	1

Number of academic support staff (technical) and administrative staff; sanctioned and filled

15. Qualifications of teaching faculty with DSc/ D.Litt /Ph.D / MPhil/ PG

Name	Qualification
Mr. Shyam Mohan	M.Sc,M.Phil
Ms. Mary Jose	M.Sc
Ms. Merin Rejoy	M.Sc
Ms. Chinju John	M.Tech

16. Number of faculty with ongoing projects from (funding) agencies and grants received :One

Mr. Shyam Mohan has been granted with UGC Minor project of 3,50,000/-.

17. Departmental projects funded by DST- FIST, UGC, DBT, ICSSR etc and total grants received –

One project : In-silico drug target identification against Cyclooxygenase –COX 2, a key enzyme mediating inflammation. Grant allocated Rs 3,50,000/-

18. Research centre / facility recognized by the University – No

19. Publications : One

Eldo Merin K,Rajesh M K, Jamshinath T.P, Hemalatha N, Gopal Murali, Thomas George V, Development of a tool for computational prediction of σ70 promoters in *Pseudomonas* spp using SVM and HMM approaches, Indian journal of Agricultural Sciences 84 (1) : 119-123, Jan 2014.

20. Areas of consultancy : Bioinformatics solutions to teachers across various colleges in Kerala through Workshops & Seminars
Income Generated: Nil

21. Faculty as members in a) National committees b) International Committees c) Editorial boards…..- Nil

22. Student Projects
    a) Percentage of students who have done in house projects including inter departmental / programme – 5%
    b) Percentage of students placed for projects in organizations outside the institution in research laboratories / Industry/ other agencies - 95%

23. Awards/ Recognitions received by faculty : Nil

Awards/ Recognitions received by students: The following students have secured University ranks in M.Sc.Bioinformatics Examinations

Year	Name	Rank in University

2011	Rekha.S.Warrier	1
2012	Arya. K.R.	1
2012	Chinchu Rishikeshan	2
2013	Deepa Paulose	1
2013	Amrutha Asokan.O.	2
2013	Revathi.K.S.	3

24.List of eminent academicians and scientists / visitors to the department

Name	Purpose
Dr. J. Jayasankar	Workshop on R programming/ March 2016
Dr. Abdul Sathar	Workshop on R Programming/May 2014

25.Seminars / Conferences /Workshops organized & the source of funding

a)National - Nil b)International - Nil

26.Student profile programme/course wise:

Year	Applications recieved	Selected	Enrolled		Pass Percentage
			Male	Female	
2011	CAP-6 Management-11	17	2	15	88%
2012	CAP-2 Management-8	10	4	6	100%
2013	CAP-2 Management-9	11	none	11	80%
2014	CAP-4 Management-12	16	3	13	50%
2015	CAP-5 Management-12	17	2	15	Ongoing

27.Diversity of Students:

Year	% of students from same state	% of students from other states	% of students from abroad
2011	100%	-	-
2012	100%	-	-
2013	100%	-	-
2014	100%	-	-
2015	100%	-	-

28. How many students have cleared national and state competitive examinations such as NET, SLET,GATE, Civil services, Defence services etc ?

NET -1 (2011), ICMR- 1(2012), STECK- Scholarship for Ph.D-1 (2012), BIITP-3 (2014),CPCRI-studentship-1 (2016)

29.Student progression: (against % enrolled)

Student Progression	2009-11	2010-12	2011-13	2012-14	2013-15
Enrolled	(4)	(9)	(17)	(10)	(11)

Research	1	1	1	Nil	1
Campus Placements	Nil	Nil	9	7	5
Employed	1	4	3	2	1
Self- Employed	Nil	1	Nil	Nil	Nil

30.Details of Infrastructural facilities

a) Department Library : 292 books

b) Internet Facility for staff and Students: Fully Wi-Fi enabled Department

c) Class rooms with ICT facility: Yes

d) Laboratories

A fully equipped wet lab facilitated for doing microbiology and biochemistry lab works.

A fully equipped Computer lab with 24 computers, Power back up and Wi-Fi connection

31.Number of students receiving financial assistance from college, university, government or other agencies

Sr. No	Scholarship	2011	2012	2013	2014	2015
1	State Government	Nil	Nil	1	1	2
2	College Management	Nil	Nil	Nil	Nil	Nil
3	Mathew Koshy Endowment	1	1	1	1	1
4	College Alumni (UCAANA)	Nil	Nil	2	2	2
5	UBCHEA	0	0	0	0	0
6	Fees Concession-Management	0	0	0	0	1
	Total	1	1	4	4	6

32.Details on student enrichment programmes(special lectures/ workshops / seminars) with external experts

- Dr. Abdul Sathar, Assistant Professor in Statistics, Kerala University was the resource person for a One Day Seminar organized exclusively for M.Sc .Bioinformatics (2012-2014 Batch). The Topic was R Programming for Bioinformatics. The Seminar took place on 24th May 2014.
- A one day Workshop on Free Software , Linux Programming was conducted at M.C.A. Department and conducted by Mr.Bruce Mathew, Assistant Professor for all the students of M.Sc.Bioinformatics in November 2014.
- Dr. J. Jayasankar, Principal Scientist, CMFRI, conducted a Workshop for students of M.Sc.Bioinformatics on Applications of R Programming on 8th & 9th March at the MCA Department Computer Lab.
- The Department of Bioinformatics organized a Seminar on “Careers in Bioinformatics” on 23rd June 2016 to bring about awareness on the

opportunities and prospects in the field of Bioinformatics. There were about 100 participants of which 22 were from other colleges in Kerala.

Year Wise Student Enrichment Programmes

1. Students of Batch 2011-2013 attended a one month training in Computer aided Drug Design in Unibiosys Research Labs, Kochi during May 2012.
Placements from this batch are:-

- SCIGENOME LABS, Kochi- Ms. Deepa Paulose
- MEDGENOME LABS, Kochi- Ms.Hridya,Ms.Rekha Sathian and Ms. Neenu Abraham
- INDOCERT, Kochi- Mr.Babeesh
- Ms.Cicy.P.Joseph- JRF at KAU, Thrissur

2. Students of 2012-2014 were actively involved in Awareness Campaigns in the College. On World AIDS Day, December 1 2012 and World Heart Day, September 29 2013, they distributed pamphlets, kept hoardings and conducted awareness programmes in the college.

3.Academic Programmes participated by Batch 2012-2014 include

- One Day Seminar at Department of Computational Biology, Karyavattom on SCILAB for Biology March 2013
- Two Day Workshop at Kerala Agricultural University on Bioinformatics Softwares May 2013
- Three Day Conference and Symposium at MACFAST, Thiruvalla,Kerala October 2013
- Two Week Training Programme at Shodaka Life Sciences, IBAB, Electronics City, Bangalore
- Ms. Anjumol Thomas, Ms.Treesa Jojo kodiyan and Mr. Jackson John were selected, interviewed and made eligible for recruitment by companies under BIITP, Biotechnology Consortium of India under DBT.
- Students of 2013-15 batch attended one week training in Biocos Life Sciences , HSR LAYOUT, Bangalore for one week.
- The 2013- 2015 batch of students under the leadership of Ms. Persis Stephen attended a two day workshop on WEKA & R Programming for Bioinformatics at Amrita Arts & Science College, Edapally. The registration fee for 10 students and teacher were paid by the college management. (Rs. 10000/-).
- Students of 2014-2016 Batch attended a two day workshop at Sree Sankara College, Kalady based on Hands on Training in Molecular Modelling and Drug Design Conducted in association with Mag Genome Technologies, Kochi on December 12-13 2015.
- UST Global conducted a Placement Drive for M.Sc.Bioinformatics students from various colleges for the Post of Java Developer on April 27th 2016 in our college. 35 students participated in the Drive, of which 7 were selected. Three students from our department were also selected.

33.Teaching methods adopted to improve student learning

- ICT enabled teaching and learning and the use of audio visual aids in class room teaching
- Remedial coaching is done for weak students.
- Personality development and soft skill training sessions are regularly conducted by external experts.
- Conducting periodical class tests and assignments
- Power point presentations of students projects and seminars.
- Hands-on experience with molecular-modeling and graphics.

34. Institutional Social Responsibility (ISR) and Extension activities : Nil

35. SWOC analysis of the department and future plans

- FIVE STRENGTHS: Reputation, Competent Faculty, Ideal time, Conducive learning atmosphere ,Freedom
- FIVE OPPORTUNITIES: Research, Health Care, ITES, IT, Bioprogramming
- FIVE CHALLENGES: Lack of awareness about the Course, Erratic University Schedules, Time Management, Interested students
- FIVE WEAKNESSES: Interdisciplinary nature of course, Time management, Communication skills not upto the mark considering employability, Tough syllabus, Lack of ample working days

Future Plans

1) Enhancing Academic Industry Interface by constituting an Advisory Committee with Experts.
2) Restructuring Syllabus according to the need of the industry.
3) Taking up M.Sc. Projects for students and promoting research initiative within the department.
4) Hosting more Workshops to expose students to changing trends in Bioinformatics Research.
5) Enhance student skills(Communication/Soft/Vocabulary/Presentation) .

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DEPARTMENT OF MCA

1.	Name of the Department	MCA
2.	Year Established	2001
3.	Names of the Programmes/Courses offered	M. C. A. (Regular, 3 year course)-2001 M. C. A. (Lateral entry, 2 year course)-2014
4.	Names of interdisciplinary courses and the departments /Units involved	Nil
5.	Annual/ semester/choice based credit system:	The Post Graduate Semester System of Mahatma Gandhi University for the M. C. A. (6 semesters for regular & 4 semesters for Lateral).
6.	Participation of the department in the courses offered by other departments:	Nil
7.	Courses in collaboration with other universities, industries, foreign institutions:	Nil
8.	Details of courses/ programmes discontinued (if any) with reasons	Nil
9.	Number of teaching posts	:

10.	Faculty profile with name, qualification, designation, specialization,D.Sc./D.Litt./Ph.D. / M. Phil. etc.)				
	Name	Qualification	Designation	Specialization	Teaching Experience
1.	Dr. A V Alex	M. Sc (Physics), Ph. D	Director	Physics Electronics	4.8 years
2.	Mr. Shine K George	M. C. A	Asso. Professor	Personalization	12.4 years
3.	Mrs. Veena Jose	M. C. A, M. Phil	HOD, Asso. Professor	Networking	11.4 years
4.	Mrs. Divya P B	M. Sc.	Asso.	Fractal Geometry	10.9 years

		(Maths) M. Phil	Professor		
5.	Mrs. Sini Velayudhan	M. C. A	Asso. Professor	Data Mining	10.8 years
6.	Mrs. Sherna Mohan	M. Sc. (Comp. Sci.)	Asst. Professor	Networking	9 .4 years
7.	Mrs. Lee Juliet George	M. C. A.	Asst. Professor	Programming in C	6.8 years
8.	Mrs. Lince Rachael Varghese	M. C.A., M. Phil	Asst. Professor	Knowledge Management	4.2 years
9.	Mrs. Sikha B Kadayath	M.C.A., M. Phil	Asst. Professor	Knowledge Management & Business Intelligence	9 months
10.	Mrs. Surabhi P V	M. Sc (Comp. Sci.), M. Phil	Asst. Professor	Data Mining	9 months
11.	Mrs. Rintu Augustine	M. C A	Asst. Professor on Contract	Cryptography	7 Months
12.	Mrs. Thanu T S	M.C.A.	Asst. Professor on Contract	Networking	7 Months
13.	Mrs. Ancy K Paul	M.C.A.	Asst. Professor on Contract		6 Months
14.	Mrs. Sreeja R Chandran	M.C.A.	Asst. Professor on Contract		3 months
15.	Ms. Reenu Cherian	B Tech., M.Tech	Asst. Professor on Contract		1 Month

11.	List of senior visiting faculty	:	1	
12.	Percentage of lectures delivered and practical classes handled by temporary faculty (programme wise)	:	PG - Nil	
13.	Student - Teacher Ratio (programme wise)	:	15:1	
14.	Number of academic support staff (technical) and administrative staff sanctioned and filled	`:	Technical Staff	Administrative Staff
			2	05

15. Qualifications of teaching faculty with DSC / DLitt/ PhD / MPhil/ PG.

		Name	Qualification
	1.	Dr. A V Alex	M. Sc (Physics), Ph. D
	2.	Mr. Shine K George	M. C. A
	3.	Mrs. Veena Jose	M. C. A, M. Phil
	4.	Mrs. Divya P B	M. Sc. (Mathematics) M. Phil

	5.	Mrs. Sini Velayudhan	M. C. A.
	6.	Mrs. Sherna Mohan	M. Sc. (Comp. Sci.)
	7.	Mrs. Lee Juliet George	M. C. A.
	8.	Mrs. Lince Rachael Varghese	M. C.A., M. Phil
	9.	Mrs. Sikha B Kadayath	M.C.A, M. Phil
	10.	Mrs. Surabhi P V	M. Sc (Comp. Sci.), M. Phil
	11.	Mrs. Rintu Augustine	M. C A
	12.	Mrs. Thanu T S	M.C.A.
	13.	Mrs. Ancy K Paul	M.C.A.
	14.	Mrs. Sreeja R Chandran	M.C.A.
	15.	Ms. Reenu Mariam Cherian	B Tech., M.Tech

16.	Number of faculty with ongoing projects from funding agencies and grants received	:	National: Nil International: Nil

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:

	Sl. No	Name of the Investigator	Title of the Project	Amount	Funding Agency
	1	Mrs. Veena Jose	Workshop on Python Programming during 15-17, December 2011	Rs. 20000	KSCSTE
	2	Mr. Bruce Mathew	Staff Development Programme on "Research Methodology & Advances In Computing" during May 14-25, 2012	Rs. 200000	AICTE
	3	Mrs. Divya P B	INSPIRE CAMP for Plus Two students from 27/05/2013 to 31/05/2013	Rs.9,75,000	DST
	4	Mrs. Divya P B	National Science Day Celebration on February 26, 2015	Rs. 20000	KSCSTE

18. Research Centre/ facility recognized by the University : No

19. Publications :

a) Publications per Faculty : List attached as annexure I

b) Number of papers published in peer reviewed journals (national/ international) by faculty and students : Nil

c)Number of publications listed in International Database Monographs Chapter in Books Books Edited Books with ISBN/ISSN numbers with details of publishers		Nil

Citation Index SNIP SJR Impact factor h-index	:	

20.	Areas of consultancy and income generated	:	• Provides lab facility and technical assistance for the conduct of JAIIB & CAIIB exam by sify • Provides lab facility and technical assistance for the conduct of online entrance test for sikkim manipal university

Year	Income generated
2014	31500
2015	103767
2016	94668

21.	Faculty as members in a) National committees b) International Committees c) Editorial Boards: Nil	
22.	Student projects	
a.	Percentage of students who have done in-house projects including interdepartmental/ programme	Mini project : 100% Main Project : 0%
b.	Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies	Mini project : 0% Main Project : 100%
23	Awards/Recognitions received by faculty and students	List attached as annexure II
24	List of eminent academicians and scientists /visitors to the department	List attached as annexure III
25	Seminars/ Conferences/ Workshops organized & the source of funding	
	a. State	List Attached as annexure IV
	b. National	Nil
	c. International	Nil
26	Student profile programme / course-wise	

Title of the Programme	Total no. of students appeared	Division			
		Distinction %	I %	II %	Pass %
2014-2016 (Lateral)	31	2	16	0	58.06
2013-2016 (Regular)	55	4	35	3	76.37
2012-2015	60	12	27	0	65
2011-2014	57	9	20	0	50.87
2010-2013	60	14	34	0	80

	2009-2012	48	11	22	0	68.75	
	2008-2011	52	12	25	2	75	

27 Diversity of Students

General	General	OBC	SC	ST	Others(physically challenged)
2011 Admn Regular	44	13	0	0	0
2012 Admn- Regular	12	10	0	0	0
2013 Admn- Regular	12	14	0	0	0
2014 Admn- Regular	7	19	1	0	0
2014 Admn - Lateral	2	10	1	0	0
2015 Admn- Regular	26	6	5	0	1
2015 Admn-Lateral	42	14	0	1	1
2016 Admn-Regular	20	16	0	0	0
2016 Admn- Lateral	29	29	0	0	0

28	How many students have cleared national and state competitive examinations such as NET, SLET, GATE Civil services, Defence services, etc.	NET-1
29	Student progression	List attached as annexure V
30	Details of Infrastructural facilities	
	a. Library	No of Text Books : 9715 No of Reference Books : 288 No of Journals : 46 (National-24,International-13, Magazines-9) No of e-Journals(Wiley blackwell, N List) : 2 No. of CD & Video : 1695
	b. Internet facilities for Staff & Students	: Available (16 Mbps)
	c. Class rooms with ICT facility	: 6
	d. Laboratories	: 4 computer labs with a total of 120 systems
31	Number of students receiving financial assistance from college, university, government or other agencies	: College- 20 : Government- 6 : Other Agencies- 5
32	Details on student enrichment programmes (special	List attached as annexure VI

	lectures /workshops /seminar) with external experts	
33	Teaching methods adopted to improve student learning	Power-point Presentations Demonstrations through models and experiments Black-board teaching Case-studies on related topics
34	Participation in Institutional Social Responsibility (ISR) and Extension activities	• Refresher Programme to senior citizens in MCA Lab by "Bridging the Digital Divide cell" on 17th March 2012 • Seminar on “e waste Management for corporates during Feb 7, 2015 • Class for Senior citizens on “E transactions “ during April 24, 2015. • Class for Senior citizens on “E transactions “ during May 30, 2015. • Newyear Celebration with childrens of Janaseva Sisu bhavan December 31,2015 • Blood Donation Camp on 31 Jan 2012 & 22 Feb 2012 • World Enviornment Day Celebrations on June 6.2016 • International Yoga Day Celebrations on June 21,2016 • Blood Donation Camp on 20th June 2016 • Janaseva Sisubhavan Visit as part of newyear celebrations on Dec 31,2015 • Visit to Seva bharathy trust as part of X mas celebrations on Dec 23,2016

Annexure I

PUBLICATIONS PER FACULTY (19)

Faculty Name	Number of papers published in peer reviewed journals (national /international) by faculty and students	Publications listed in International Database (For Eg: Web of Science, Scopus,Humanities International ,Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
Mr. Shine K George	Ontology based framework for news extraction in visual media	Published in the Proceedings of the International Conference on Data science and Engineering during 18-20 July 2012
Mrs. Priya Maniyan	Approach to Detect Diseases using Nail Image Processing	Published in International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 16 (2015)(SCOPUS)
Mr. Bruce Mathew	A Generic Predictive Knowledge Management Model for Fisheries with special emphasis to the catch of Oil Sardine along the South West Coast of India	Published in International Conference on Advanced Computing and Communication Systems(ICACCS-2015)
Mrs. Veena Jose	Secure Multicasting using blowfish algorithm	Published in International Journal of Advanced Information and Communication Technology, Vol 1,issue 4, Aug 2014
Mrs. Divya P B	A Study on the role of fuzzy logic and rough set theory in intrusion detection systems	Published in the proceedings of the International Conference on “Mathematical modeling in Computer,

		Management and Medical Sciences". [June 13-15, 2013] ,pp 172-177.
Mrs. Lince Rachael Varghese	A QR Decomposition approach for improved anomaly detection over non-linear data A Study on anamoly detection and a proposal for an Improved anamoly detection over the Non-linear distributed data using QR-Factorization approach	Published in IJCA, Sept 2015 Vol 126, no:10 Published in Wide Spectrum, Vol 4, No:3(2015)
Miss. Rose Babu	An Efficient Routing With Congestion Control Protocol For Multihop Broadcast Routing In VANETS	Published in International journal of Advanced Computational Engineering and Networking. !SSN:2320-2106 Volume-2, Issue-3, March 2014
Mrs. Surabhi P V	Predictiing Melting Point of Medicinal Compounds using Neural Network Classifier	Published in International Journal of Research in advent Technology , Vol 3, no 9, Sept 2015

Annexure II :

AWARDS/RECOGNITIONS RECEIVED BY FACULTY AND STUDENTS(23)

1. Mr.Dipin Raj of 5A Batch(2012 admn) and Tinu K Jos of 3B (2013 admn) Batch for securing first prize in *Web Designing* competition conducted by SNGIST on Feb 12 & 13, 2015.
2. Mr. Tinu K Jos and Mr.Nikhil Raveendranath of 5B Batch(Regular-2013 admn) for securing first prize in Web Designing competition conducted by FISAT on January 29 & 30, 2016.
3. Mr.Ashin Antony, Mr.Jibin Jose & Mr.Rahul A of 2015 admission Regular Batch secured 3rd prize in Word Hunt competition as part of the IT Fest 'De Tecknista' conducted by Depaul, Angamaly on Jan 14&15, 2016.
4. Mr. Ashwin Dinesh , Mr. Arun P. George, Mr. Dony Garvasis, Mr. Govind Kailas, Mr. Frankson Thomas, Mr. Lipson Jacob, Mr. Nayan Vivian of 2015 Lateral Admn. secured First Prize for External Choreography conducted by Depaul, Angamaly as part of the IT Fest 'De Tecknista' on Jan 14&15, 2016.
5. Mr. Christo Augustine, Mr. Hanish, Mr.Nijo John and Mr.Ajith of 4th semester(2014 Regular Admn.) secured 3rd prize in Gaming conducted by Depaul, Angamaly as part of the IT Fest 'De Tecknista' on Jan 14&15, 2016.
6. Mr.Asif Ali & Mr.Rakesh M (2014 Admn. Lateral) secured 1st prize for Gaming competition organized by BPC College, Piravom as part of the IT fest Tegra 2016.
7. Mr. Shelvin Bhaskaran of 2014 Lateral Admn. secured 1st prize for the Photography Competition conducted by MBA Department UC College as part of the Management Fest Inspira 2016.
8. Merin-Malayalam Essay writing 2nd ,Nijo –Malayalam elocution -1st, Dony-Quiz-3rd.Psycholgy Dept.Cycling-Lipson,Nayan,Prajith,Govind,Ashwin
9. Mr. Gijil Jacob of 2nd semester(2015 Regular Admn.) and Ms. Gloria Francis (sem 4-2104 admn regular) presented a paper on Cloud Computing organized by Naipunya College, Pongam on September 2016.
10. Mr. Christo Augustine, Mr. Hanish of 5th semester (2014 Regular Admn.) presented the paper entitled "Gas Leakage Detection System" organized by the Business Innovation and Incubation Centre (BIIC), Mahatma Gandhi University on January 12th 2017.
11. Mr. Hanish of 5th semester (2014 Regular Admn.) developed a Webapp titled "Disapp" which will serve as a tool for crowd sourcing relevant information about dengue directly from the affected communities for Center for Advancement of Global Health-CAGH (Non-profit NGO based in Cochin, India working in the area of global health). They also attended an International symposium on the same.

Annexure III

LIST OF EMINENT ACADEMICIANS AND SCIENTISTS /VISITORS TO THE DEPARTMENT (24)

Name	Purpose and date
Swami Sachidananda Bharathy,the founder of Acharya guru of national regeneration movement.	Value education programme for Ist & 3 rd Sem students(2010 & 2009 Adm) on 21/01/2011
Dr Achyuth Sankar,	Inauguration of AICTE Sponsored SDP on 14/5/2012
Dr.Philip Samuel,Head, Information Tech, CUSAT	Resource Person for SDPon 15/05/2012
Dr Jacob Philip, Director,STIC, CUSAT	Resource Person for SDP on 16/5/2012
Dr. K. Rejikumar, Asst professor, NSS College , Panthalam	Resource Person for SDP on 16/5/2012
Dr. R. Rajesh, Asst Professor, Dept.. of Computer Applications, Bharathiyar University, Coimbatore.	Resource Person for SDP on 17/5/2012
Dr. T Mahalakshmi, Principal,SNIT, Vadakkevila, Kollam	Resource Person for SDP on 21/5/2012
Dr M S Samuel, Director, MACFAST, Thiruvalla	Resource Person for SDP on 21/5/2012
Dr Rajkumar Kannan, Associate Professor, Department of Computer Science, Bishop Heber College, Tiruchirappalli	Resource Person for SDP on 22/5/2012
Dr M Pushparani HOD, CS Dept, Mother Teresa women's university, Kodaikanal	Resource Person for SDP on 22/5/2012
Dr R Sreedharan, Prof & HOD, Scool of Management studies ,NIT Calicut	Resource Person for SDP on 22/5/2012
Dr K V Pramod HOD, MCA, CUSAT	Resource Person for SDP on 25/5/2012
Dr. K.L.Sebastian,Indian Institute of Science , Banglore	Resource Person for Inspire Science Camp on 27/5/2013
Sri. Prince Joseph, Senior Scientist, NPOL	To Inaugurate Inter-Collegiate Fest-rITika'15 on Feb 05, 2015
Mr. Sunil Balakrishnan, Global Head for Center Operations and Center Head for Kochi Center, UST Global	To Inaugurate Inter-Collegiate Fest-rITika'15 on Feb 05, 2015
Dr. R V G Menon, retired Principal of Govt. Engineering College-Kannur and served as Director of ANERT and President of Kerala Sasthra Sahithya Parishad, the "Peoples' Science Movement"	To Inaugurate National Science Day on 26th Feb, 2015

Annexure IV

SEMINARS/ CONFERENCES/ WORKSHOPS ORGANIZED & THE SOURCE OF FUNDING (25)

Programme name	Date	Source of Funding
One day Workshop on 'Advanced Computing" by IIPC at UC College	14-Jan,2011	Internal Fund
Seminar on Android as part of FOSS Cell	13-Jan,2011	Internal Fund
Workshop on Python	15-17,Dec, 2011	KSCSTE
Workshop on Drupal - CDAC Chennai	22-23,March 2012	NRCFOSS, CDAC Chennai
SDP on " Research & advances in Computing"	14-25, May 2012	AICTE
Workshop on PHP My SQL to semester 5 mCA students	5-9 April,2013,	Internal Fund
Workshop on wikipedia to semester 1 students of MCA	12-Apr-2013	Internal Fund
INSPIRE CAMP	27-31, May 2013	DST
Workshop on Koha for teachers by SDC lead by Dr Veerankutty,CUSAT	20-Jun-2013	Internal Fund
Workshop on PHP My SQL to semester 5 MCA students	16,17,18-Jan,2014	Internal Fund
FOSS Awaremness programme for students by Mr V K Adarsh	3-Sep,2014	Internal Fund
National Science Day Celebration 2016	26, February, 2016	KSCSTE

Annexure V

STUDENT PROGRESSION (29)

Batch	Total Students	Employed	
		Campus Placements	Others
2014-16 (Lateral)	31	15	8
2013-16 (regular)	55	16	12
2012-15 (regular)	60	12	20
2011-14 (regular)	58	7	35
2010-13 (regular)	59	14	38

Students Placed fom 2014-16 Admission	Lekshmi S pillai Soumya Joseph Tency Cleetus Kesia Simon Stephy Thomas Midhun Gopinath Ashif Ali Thaslima E S	Wipro (8)
	Shilja Joseph Tensy Cleattus Stephy Thomas Keerthy P S Bibin Joy	Corel Business Solutions (5)
	Amrutha T A Mable K A	Gatikk Technologies (2)
Students Placed fom 2013-16 Admission	Tinu Jose K Clinda Varghese Valerine Mariamendez Achuth S Deepthi Dinesh Maria John Shalin Samuel Lakshmi V Nair Shiney P Alexander Sonu James Animol K G Sreesha Bhagyanath.	Wipro (12)
	Mariya John Ashitha Gosh P A Shalu P Shajan	Corel Business Solutions (3)
	Tinu Jose K	Tele Verge Communications(1)
Students Placed fom 2012-15 Admission	Arya Anand(Wipro) Aiswarya S(Wipro)	

	Shimil Thattarassery(Wipro) Rinimol Davis(Wipro) Veena Balachandran(Wipro) Dipin Raj(Wipro) Teena Johnson(Wipro) Nisha Paul(Wipro) Sruthy Mohan(Wipro) Nitha Varghese(Wipro) Nigha Varghese(Wipro, IBS) Lakshmi Chandramohan(UAE Exchange)	
Students Placed fom 2011-14 Admission	Saranya M(IBS) Sreelekshmi G T(IBS) Aswathy V J (IBS) Femi Joseph (IBS, Accenture) Vishnu Venu (Accenture) Shaibin Jose(Accenture) Aswani Aravind(Accenture)	
Students Placed fom 2010-13 Admission	Soumya Sunny (UST) Basil Stephen(Huwaei) Manu Antony(Adhoc Technologies) Deepu Varghese(Adhoc Technologies) Ragesh R Menon(Adhoc Technologies) Remya Menon(Zerone Consulting) Manu antony(Speridian technologies) Biju B(Abba Soft) Nikhil Jose P X(Abba Soft) Arun Devassy(UST) Sreelakshmni K Nair(UST) Ragesh R Menon(UST) Tessy Sebastian(UST) Manu Antony(UST)	

Annexure VI:

DETAILS ON STUDENT ENRICHMENT PROGRAMMES WITH EXTERNAL EXPERTS

- Talk by Padmavibhushan E C G Sudharshan on 09/12/2011
- A talk by Dr Aju and Dr.Sherry of UCC on "Science and Literature" during 16-17 Aug 2012
- Talk on Money management for sem5-2010 admn by Dr. Tony, HOD, Economics Dept, UCC on 12/03/2013
- Talk by R.Sasidharan ,Principal Consultant,DMRC Komet on 11/07/2014
- Talk by Dr Rajesh R, Asso. Prof, Central Uty, Bihar on Image Processing on 12 Aug 2015
- Workshop on 'Advanced Computing" on 14/01/2011
- Training programme on PhP &MySql by Mr.Lal Paul,System Administrator , CUSAT on 22/10/2011
- Workshop on Python during 15-17 Dec 2011
- Workshop on Drupal - CDAC Chennai on 22,23 March 2012
- A seminar on Android on 13/01/2012
- A workshop on PhP –MySQL was conducted on 5-6 April, 2013 and 8-9 April,2013 by Prof Tiji Thomas, HOD, MCA, MACFAST, Thiruvalla
- Soft SkillsTraining by 'Riya Kariath, Software Engineer, to sem 4 (2011 admn.) on 29/11/2013
- A workshop on PHP and MySQL for 5th sem students from 16/01/2014 to 18/01/2014
- Wokshop on web site management taken by RIOSIS group on 09/06/2014
- Hands on Training on VB.net by Ms. Anitha of Yada Solutions Pvt Ltd on 04-03-2015
- Talk by Dr Rajesh R to Sem4 (2013 admn & 2014 admn lateral) on August 12,2015
- Talk on " Opportunities for MCA students in Government sectors" by placement cell on December11,2015
- A workshop on PhP –MySQL was conducted on 14-15 January, 2016 ,16-18 January, 2016 and 19-20 January, 2016 for (2013 admn Regular A & B batches, 2014 Lateral batch) by Prof Tiji Thomas, HOD, MCA, MACFAST, Thiruvalla
- Behavioural training programmes by Mr. Ajith Sojan
- Talk by Mr. Jithin K P, Kerala sasthra sahithya parishath on “Bio diversity” as part of World Enviornment Day celebrations June 6,2016
- Alumni Mentoring Class by Noble A J for Sem 4 students June 18,2016
- A awareness session on importance of Yoga and a practice session as part of international yoga day celebrations on June 21,2016
- Seminar on " How to write a good research paper” for semester 5 students (2014 admn Regular, 2015 admn Lateral batch) by Dr. Sabu M K, Associate professor, MES College, Aluva on Aug 27,29-2016
- Talk on “ Ruby software “ by Mr Ananthana rayanan as part of Software freedom celebrations. On September 20,2016
- Training on cloud computing by IPSR Solutions Ltd on November 5, 2016
- Aptitude training for sem 5 by career launcher during 29-Nov to 3-Dec,2016

DEPARTMENT OF MBA

1. Name of the Department : Department of MBA
2. Year Established : 2013
3. Names of the Programmes/Courses offered : M B A
4. Names of inter disciplinary courses and the departments /Units involved : Nil
5. Annual/ semester/choice based credit system: : Semester
6. Participation of the department in the courses offered by other departments: : NA
7. Courses in collaboration with other universities, industries, foreign institutions: : Nil
8. Details of courses/ programmes discontinued (if any) with reasons : Nil
9. Number of teaching posts : 9 as per AICTE norms

Name of Post	Sanctioned	Filled
Professors	1	1
Associate Professors	2	0
Asst. Professors	6	5

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.)

	Name	Qualification	Designation	Specialization	No. of Years of Teaching Exp.
i.	Padmaja Devi A	Ph. D., M.B.A., M. Com	Director	Human Resource Management	32
ii.	Suraj E S	Ph. D. (Thesis submitted), M. Phil., M. B. A.	HOD	Finance	13
iii.	Janisben Bino	M. B. A., M. Com., PGDIBO	Assistant Professor	Finance	5.2
iv.	Sujith Kumar P	M. B. A, PGDIBO, M. Com. (Pursuing)	Assistant Professor	Finance	2.7
v.	Rahul R Lexman	PGDM, M. A. Sociology (Pursuing), B. Tech	Assistant Professor	Human Resource Management	4
vi.	Sneha Rose George	M. B. A., M. Com. (completed), PGDIBO	Assistant Professor	Marketing	3

11. List of senior visiting faculty : i) Ramaswamy T. A., M. Tech. (Industrial Engineering, IIT Kanpur)
ii) H. Venkitachalam, M. Com, PGDBA,

MBA, Ph. D.
iii) P. V. Menon, MSc Mathematics
iv) Adv. Marian Paul, L. L. M

12. Percentage of lectures delivered and practical classes handled by temporary faculty (programme wise) : NA

13. Student - Teacher Ratio : 15:1

14. Number of academic support staff (technical) and administrative staff sanctioned and filled :

Technical Staff (Lab Assts)		Administrative Staff (store keeper)	
Sanctioned	Filled	Sanctioned	Filled
NA	NA	03	03

15. Qualifications of teaching faculty with DSC / DLitt/ PhD / MPhil/ PG.

1. Ph. D : 1
2. M. Phil : 1
3. PG : 6

16. Number of faculty with ongoing projects from : NA
a) National :

b) International

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received : NA

18. Research Centre/ facility recognized by the University : Nil

19.a. Publications per faculty : Padmaja Devi A: 4
Suraj E S : 19
Janisben Bino : 1
Sujith Kumar P : 2
Rahul R Lexman: 1

19.b Number of papers published in peer reviewed journals (national / international) by faculty and students : Padmaja Devi A : 2
Suraj E S : 16

19.c. Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : Nil

19.d. Monographs : Nil

19.e. Chapter in Books & books edited: : Nil

19.f. Books with ISBN/ISSN numbers with details of publishers

1. Mr Suraj E S - 3 (“Principles of management and Accounting”, Chess Educational Publishers ISBN : 9788193167052, “Functional Applications of

Management", Kerala University prescribed syllabus for B Com graduates, "Business ethics and corporate governance", Chess Educational Publishers ISBN : 9789385666179)

2. Ms Janisben Bino - 1("Principles of Management and Accounting", Chess Educational Publishers ISBN : 9788193167052)

3. Mr Sujith Kumar P - 1("Principles of Management and Accounting", Chess Educational Publishers ISBN : 9788193167052)

4. Mr Rahul R Lexman - ("Business ethics and corporate governance", Chess Educational Publishers ISBN : 9789385666179)

19.g. Citation Index
SNIP
SIR : Nil
Impact factor
h-index l

20.	Areas of consultancy and income generated :	Nil
21	Faculty as members in a) National committees b) International Committees c) Editorial Boards:	a. National Committees: Nil b. International Committees: Nil c. Editorial Board: Ms Sneha Rose George - 1 (Managing editor, 3rd eye entertainment magazine, Kerala)
22.	Student projects	
a.	Percentage of students who have done in-house projects including interdepartmental/ programme	Nil
b.	Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies	46 students (minor internship of 30 days duration) 36 students (major internship of 60 days duration

23 Awards/ Recognitions received by faculty and students

Faculty

Mr Suraj E S - Secured best paper award in International conferences twice

Students

National level B-School Management fests(2016)

i) Secured first prize at Holy Grace Academy, Mala for Finance Game.

ii) Secured first prize for Treasure hunt at Vidya Bharati Group of Institution, South Kalamassery

iii) Secured third prize for CSR game at Rajagiri Business School, Kakkanad

24 List of eminent academicians and scientists /visitors to the department

1. Mr Ramaswamy T A, MTech(Industrial Engineering, IIT Kanpur)
Dr H Venkitachalam, MCom, PGDBA, MBA, PhD
2. Mr P V Menon, MSc Mathematics
3. Adv Marian Paul, LLM
4. Mr Gokul E K, Training Consultant
5. Ms Nitha Suraj, Assistant Professor, Vidya Engineering College, Trichur
6. Mr Ajith Kumar, Training Consultant
7. Mr Baby P K, CUSAT
8. Mr Prasidh Prasad, Founder & CEO, Praxis Knowledge Solutions
9. Dr Mathai B Fenn, Adjunct Faculty, Marian International Institute of

Management, Kerala
10. Mr Antony P S, Geojit BNP Paribas, Aluva
11. Mr T T Job, Director of Academy of Experiential learning
12. Mr Krishnaswamy, Co-founder, Konfidence Key
13. Mr Jaifer Vaipen Kattil, Assistant Vice President, Den networks
14. Employability training by Mahindra & Mahindra
15. Training session by Muthoot Securities

25 Seminars/ Conferences/ Workshops organized & the source of funding — Nil

26 Student Profile programme/ course-wise :

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
MBA 2015 Admissions (2016-2017)	95	55	19	30	Results awaiting
MBA 2014 Admissions (2015-2016)	80	50	18	17	3
MBA 2013 Admissions (2014-2015)	20	15	7	7	61.5

27 Diversity of Students — Students from the home state and Lakshadweep.

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
MBA 2016-2018	100	-	-
MBA 2015-2017	100	-	-
MBA 2014-2016	100	-	-
MBA 2013-2015	100	-	-

28. no. of students who have qualified NET.GATE Civil service, Defense etc: Nil

29. Student Progression

Student progression	Against % enrolled
UG to PG	-Nil-
PG to M.Phil.	-Nil-
PG to Ph.D.	-Nil-

Ph.D. to Post-Doctoral	-Nil-
Employed • Campus selection • Other than campus recruitment	MBA 2015-2017 - 50% (4th sem classes pursuing) MBA 2014-2016 - 90% MBA 2013-2015 - 100%
Entrepreneurship/Self-employment	MBA 2014-2016 - 10%

Details of Infrastructural facilities

0

12. Library	Books: 2000 (titles 582) Shelves: 15 Personal Computers: 3 Magazines: 4 Journals: 12 E-journal: 1
13. Internet facilities for Staff & Students	Wi-Fi Enabled
14. Class rooms with ICT facility	All classes have ICT facility
15. Laboratories	Computer lab with 20 machines

31 Number of students receiving financial assistance from college, university, government or other agencies

Scholarships	2015	2014	2013
Scholarship from College	4		
Scholarship from Government			
Scholarship from Other agencies			
Financial Assistance/ Scholarship from the department			

32 Details on student enrichment programmes (special lectures /workshops /seminar) with external experts

- Motivational class was handled for the students by Mr Prasidh Prasad (founder, CEO, Praxis Knowledge Solutions)
- A session on the " Importance of MBA in the present business Environment" was conducted by Dr mathai B Fenn(Adjunct faculty, marian International institute of Management, Kerala)
- A training session for the students was conducted by MR Antony P S (geojit BNP paribas, Aluva)
- A session on the topic " Neuro Linguistic Programming & Mind Dynamics" was conducted by MR T T Job (director of academy of Experiential Learning)
- HR students attended an International Conference on Competency Building at CUSAT, Kochi
- Industry interaction for marketing specialization students on the topic Consumer Retail and Retail Management was held KFC, Gold Souk, Vyttila

- Survey in agricultural field was done by Finance specialization students at Munnar
- A session for students was handled by Mr Krishnanswamy on the topic " Emerging issues and challenges in the area of Compensation management"
- Classes were conducted by Muthoot Securities for the finance specialization students
- 3 day soft skill training (Employability skills) program by Mahindra & mahindra was conducted for the students
- One day Symposium on the topic Analytics Transform Insights into action" was attended by students at Amrita institute

33 Teaching methods adopted to improve student learning

a. Case study
b. Seminar
c. Audio Visual

34 Participation in Institutional Social Responsibility (ISR) and Extension activities

Nil

35. SWOC Analysis of the department and future plans

STRENGTH	WEAKNESS	OPPORTUNITIES	CHALLENGES
Strong Brand Name- UC college	Inadequate infrastructure facilities	Increase in national recruitment	High competition
Adequate resources (computers, internet, Lab etc)		Curriculum expansion	Higher education opportunities
Faculty and staff commitment		Grand funding	Online distance courses
Strong bond between faculty and students		Professional development of staff	
High accessible location		Technical support for students, faculty and staff	
Faculty service to the college management		Can partner with international universities	
Add- on course expansion			
Diverse support services available to students			
Student leadership development			
Effective instructional program			

to students			

DEPARTMENT OF COMMERCE

1) Name of the department : Commerce
2) Year of Establishment : 2013
3) Names of programmes/courses offered : UG
4) Name of interdisciplinary courses and the Departments/Units involved : 1) B.Com Computer Applications (Model I)

2) B.Com Finance & Taxation (Model II)

5) Choice based credit Semester system (Programme Wise) : 1) B.Com Computer Applications

2) B.Com Finance & Taxation

6) Participation of the department in courses Offered by other department : Open Course
7) Courses in collaboration with other institution : Tally ERP 9. With LCC Aluva 2014
8) Number of Teaching Posts:

Name of the Post	Sanctioned	Filled
Asst.Professor	9	9

9) Faculty Profile

Sl.No	Name	Qualification	Designation	No .of. Years of Experience
1	Prof.P.G.Thomas	M.Com	Asst.Professor	38 years
2	Ms. Subha.T	M.Com NET	Asst.Professor	2.5 years
3	Ms. Sumitha Pankaj	M.Com	Asst.Professor	1.5 years
4	Ms.Lakshmi. P	M.A.English , M.Phil	Asst.Professor	1.5 years
5	Ms.Bisha E.Y	M.A.English , B.Ed, SET	Asst.Professor	16 years
6	Ms.Suseela.A	M.Com, PGDCA, Doing MBA	Asst.Professor	9.7 years
7	Ms.Rintu Jose	M.Com	Asst.Professor	2.5years
8	Ms.Salini.G	M.Com	Asst.Professor	7 months
9	Ms.Sabeela Ajeesh	MSc.IT, PGDIM , Doing MBA	Asst.Professor	4.7 years
10	Ms.Ancy M	MA Hindi, M.Phil	Guest Lecturer	5 years
11	Ms.Anju Sebastian	MA Malayalam , B.Ed	Guest Lecturer	2 years

10) Presentations by the Faculty members:-

Faculty Name	No .of.Presentations
Ms.Subha.T	2
Ms.Salini.G	2
Bisha .E.Y	1

11) Student Teacher Ratio (Programme Wise) : 24:1
12) Student Projects:-
Percentage of students placed for projects in organization outside institution : 18%

13) Students Profile:-

Name of the Course/Programme	Application Received (50% Management)	Selected (50% UG and 50% Management)	Enrolled		Drop Out
			Male	Female	
B.Com (Computer Application) **2013-2016 Batch**	650	40	22	17	1
B.Com (Computer Application) **2014-2017 Batch**	880	50	27	18	5
B.Com (Finance & Taxation) **2014-2017 Batch**	1090	40	20	19	1
B.Com (Computer Application) **2015-2018 Batch**	1210	49	29	20	0
B.Com (Finance & Taxation) **2015-2018 Batch**	1215	49	35	14	0

14) The students who have cleared national and state competitive, Defence Service examination : Muhammed Muhasin B.Com Computer Application (2014-2015

15) Details of Infrastructural Facilities:

a) Department Library - 152 books
b) Internet Facilities for Staff and Students
c) Smart Class and Computer Lab -25 systems, LCD Projector, Slate, Audio aids, Printer and Wi-Fi.

16) Number of Students receiving financial assistance from college, university, Government or other agencies

UCCANA	**E-GRANTZ**	**FISHERIES**	**TRINITY**
2013-2014 Vidya K.K Arun Jose **2014-2015** Nithya Thampi.V **2015-2016** Mustafa P.S	**2013-2016** Greeshma P.V **2014-2017** Anitha Sivan Arya K.S Kannan .K Malavika Rakhi P.A AmalKrishna Athira M.V **2015-2018** Akhila Sabu Jithin P.K Rahul P.U Hemand Hari Keerthi Prasad	**2013-2014** Ansila .K.A **2014-2015** Ansila.K.A	**2015-2016** Arun Jose

17) Teaching methods adopted to improve student learning:

- Lectures
- PowerPoint Presentations
- Test Papers and Quiz Programmes
- Seminars & Debates
- Assignments
- Group Discussions
- Internal assessment

SEMINARS	ORIENTATION	OTHERS
2013-2014		
Seminar on **Financial Inclusion** by Ms. Soubagya Raveendranath, Faculty MBA UC College	Orientation on **Motivation and Time Management** by Mr Sooraj Abraham	Competitive exam training by placement officer Ms Janisben Bino
2014-2015		
Seminar on **Certified Management Accountant** (USA)by KARE Institute	Orientation on **Inter personal skill and Self Realization** by Mr Sooraj Abraham	Add- on course in **Tally ERP 9** by LCC,Aluva
2015-2016		
SSeminar on **capital market** by Hedge School of Applied Economics	Orientation on **Interviewing Skill, Healthy Communication and Success** by Mr Sandeep From Glow Mind consultancy Orientation on **Motivation, inter personal skill, conflict management** by Mr Harikumar Orientation on **self realization, time management** by Mr Prince Varghese from Mind it Mind solution	Practical class on **Financial Planning,Networth,Budgeting and Goal setting** by PNB Metlife Awareness on practical auditing by auditors from CA firm, Ernakulam Career development class by Manvish Academy

- Remedial coaching
- Viva- Voce
- Industrial visit and learning through various activities
- Projects

18) Details of Student Enrichment Programme:

19) STUDENTS SUPPORTS

- Remedial classes, Practical classes, Add-on Courses, smart class using Projectors and slate.
- Tutorials
- Value Education

- Scholarships

20) Students Achievements and Awards:

ACADEMICS
2013-2014
Our students participated in the commerce fest conducted by Al-Ameen college ,Edathala and won prize worth Rs10000 for Best Manager, Treasure hunt and Spot dance
2014-2015
Five of our students won prizes in the fest conducted by MBA Department U C college for Treasure Hunt and idea presentation
2015-2016 Five of our students won Rs.7000/- for the Product launch in National Commerce Fest conducted by DiST, Angamaly. Five of our students won prize in the fest conducted by MBA Department St.Alberts college for Treasure Hunt and idea presentation.

Extra Curricular Activities (2013-2016)

College Union

Afrin T.A (Chairman) 2015-2016
Muhammed Muhasin (IIDC Rep)
(2015-2016)

Sports

Following students of our department have represented and won prizes in the intercollegiate football tournaments

- Sarath Sebastian
- Amal Razik

Hockey

- Amrutha Santhosh
- Mridula Raj
- Jenny Rosa

- Intercollegiate hockey tournament
- All India South zone University tournament
- Women Nationals
- Junior Nationals

Net Ball

The following students secured II position in intercollegiate netball tournament

- Muhammed Haseeb
- Hariz Subair
- Amar Abdul Salam
- Akshay Shaji

21) Extension Activities

Our students had done various voluntary social services under the college NSS &NCC campaign on

- Harithavarsham-planting tree

- Swachbharath-cleaning KSRTC stand & Aluva Manapuram
- Blood Donation
- Participation in Pain & Palliative Care Unit.
- Other Social Work

SWOC ANALYSIS

STRENGTH

According to an updated report in Global Financial Monitor, employers are presently facing a talent scarcity of accounting and finance professionals. This signifies job opportunities for graduates with a Commerce Degree are moderately promising. A Bachelor of Commerce or B.Com degree is a three year undergraduate course and is specially designed to provide students, managerial skills in commerce associated disciplines such as accounting, finance, marketing and advertising amongst others. The degree is basically structured to offer aptitude in organizational behavior and business principles by focusing on core subjects such as law, finance, statistics, marketing, accounting, economics, cooperative as well as marketing education.

Here are a few key advantages of this degree program:

- With a B.Com degree you are well prepared to be successful in both corporate and self employment.
- There are high job prospects for holders of this degree as all companies or businesses needs a Commerce Specialist, Manager or at the very least an Accountant.
- Familiarity in accounting offers you with an aptitude to comprehend and scrutinize financial reports and how they usually affect a business. A good knowledge in management and cost accounting practices is significant in decision making processes and in planning as well as evaluating the performance of a company's business activities.
- Human resource management is an additional option provided in this degree course. This choice prepares students with the essential skills in analyzing, identifying and searching solutions to problems associated to human resource activities. It covers essential managerial processes such as selection and recruitment of employees, promotions, employee welfare, talent hunting and application of work-related safety process in a company amongst others
- We have well qualified and experienced faculty to coordinate and implement the curriculam as per university direction
- We have meritorious and talented students with good percentage.
- We offered well furnished eco friendly class rooms, department library and smart class facilities.

WEAKNESS

- Being a self financing course we don't have any grants and funds provided by UGC and others for conducting National and International seminars and workshops
- We don't have PG course , Research Department and funds for doing major and minor projects for the faculty

OPPORTUNITIES

- Job opportunities for graduates in commerce are moderately promising. Bcom is a UG course provide opportunities in various streams
    - JOBS- Accountant, Tax Consultant, Banker, BPO, Auditor ,Stock Broker ,Manager, Finance Consultant, Entrepreneur

- COURSES-MBA, M.Com, ACCA, CMA, CA,ICWAI, CPA, BAT

- We have an opportunity to provide professional practical accounts training and audit training for the students
- To elevate the Department as a PG and Research Department.
- Various students enrichment activities in tie up with outside Institutions and Companies.

CHALLENGES

- B.Com is not a technical oriented course
- Students are facing practical difficulties in doing accounting and tax related jobs due to outdated syllabus
- We are also not having enough time in the semester system to provide them various add on and skill development programme

FUTURE PLANS

- We proposed to setup an Entrepreneurship Development Club with Department of Industries and commerce , Government of Kerala to inculcate Entrepreneurial culture among youth and equip them with the skills, techniques and confidence to be an entrepreneur
- We proposed to provide professional practical accounts training and audit training for the students
- To enhance the knowledge in capital market, we planned to open an online share trading terminal in our department
- We proposed to plan an Intercollegiate Commerce Fest

DEPARTMENT OF ELECTRONICS AND COMPUTER MAINTENANCE

1 Name of the department : Electronics and Computer Maintenance

2 Year of Establishment: : 2001

3 Names of Programmes / Courses offered : UG- B.Sc Electronics and Computer Maintenance (SF)

4 Names of Interdisciplinary courses and the departments/units involved

5 Department offers open course ' Information Technology ' for fifth semester CBCSS undergraduate students of the college.

Annual/ semester/choice based credit system (programme wise)

The Choice based Credit and Semester System (CBCSS) of MG University for UG Course (Model III) (6 semesters)

Participation of the department in the courses offered by other departments

Department offers open course ' Information Technology ' for fifth semester CBCSS undergraduate students of the college.

Courses in collaboration with other universities, industries, foreign institutions- Yes

Every year , fourth semester B.Sc E & CM students undergo 30 hours of '**On The Job Training**' in electronics field under the guidance of experts from other Institutes .

List of various ' On the Job Training ' sessions conducted during last five years

- Training sessions on LiTeUP003 (ATMEL AVR + Proteus) was arranged by resource persons from Laxmi Infotek, Kalamassery in February 2015.
- Training sessions on Embedded Systems, Architecture, Project integration and testing with the help of MPLAB IDE, PCB design and fabrication was arranged in February 2014. Professionals from Grey Technolabs , Edappaly lead the sessions.
- Training sessions on 'OrCAD' was conducted by resource persons from QUEST Innovative Systems, in January 2013
- Training for CCTV Security and Surveillance System was organized by resource persons from Reliable Integrated Security Solutions, Kochi in February 2012.
- Training sessions for PIC Microcontrollers and its programming conducted by resource persons from Quest Innovative Systems in January 2011.

Details of courses/ programmes discontinued (if any) with reasons - Nil

Number of teaching posts (PERMANENT)

Sanctioned	06
Filled	06

Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience
Ms. Grace P Valsan (on leave)	M.I.T	Assistant Professor	Information Technology	10
Ms. Beena A.K	M.Sc	Associate Professor	Mathematics	10
Ms. Julie Ann Joseph	M.Sc, B.Ed	Assistant Professor	Nano Technology	7
Mr. Jibin Jose Mathew	M.Sc	Assistant Professor	Open Source Hardware	7
Ms. Simi Varghese (on leave)	M.Sc, M.Phil	Assistant Professor	Information Technology	4
Mr.Akhil T.V	M.Sc, M.Tech, PGDCA	Assistant Professor	Embedded System	4
Ms. Merin Varghese (leave vacancy)	M.Tech	Assistant Professor	VLSI Design	4 months
Ms. Tresa Mathew (leave vacancy)	M.Sc , M.Tech	Assistant Professor	Applied Electronics	4 months
Mr. K.A. Venugopal	M.Com	Assistant Professor	Accountancy	10
Ms. Lakshmi P	M.A, M.Phil	Assistant Professor	Literature	2

List of senior visiting faculty- Nil

Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty.- 40%

Student - Teacher Ratio

Sanctioned	1 (Technical Assistant) 1 (Lab Technician)
Filled	2

(programme wise) : B.Sc E & CM – 17 : 1

Number of academic support staff (technical) and administrative staff; sanctioned and filled

Qualifications of teaching faculty with DSc/ D.Litt /Ph.D / MPhil/ PG

Name	Qualification
Ms. Grace P Valsan (on leave)	M.I.T
Ms. Beena A.K	M.Sc
Ms. Julie Ann Joseph	M.Sc , B.Ed
Mr. Jibin Jose Mathew	M.Sc
Ms. Simi Varghese (on leave)	M.Sc , MPhil
Mr.Akhil T.V	M.Sc, M.Tech, PGDCA
Ms. Merin Varghese (leave vacancy)	M.Tech
Ms. Tresa Mathew (leave vacancy)	M.Sc , M.Tech
Mr. K.A. Venugopal	M.A Public Administration , M.Com , Diploma in International Buisiness Operations
Ms. Lakshmi P	M.A, M.Phil

Number of faculty with ongoing projects from (funding) agencies and grants received : Nil.

Two of our faculty members have applied for Minor Research Projects from UGC and are waiting for the results.

Departmental projects funded by DST- FIST, UGC, DBT, ICSSR etc and total grants received - Nil

Research centre / facility recognized by the University – No

Publications : Nil

Areas of consultancy and income generated : Nil

Faculty as members in a) National committees b) International Committees c) Editorial boards…..- Nil

Student Projects

c) Percentage of students who have done in house projects including inter departmental / programme – 20%

d) Percentage of students placed for projects in organizations outside the institution in research laboratories / Industry/ other agencies - 80%

Awards/ Recognitions received by faculty

- Ms. Julie Ann Joseph and Mr.Akhil T.V attended the syllabus restructuring workshop of B.Sc Electronics held at STAS , Edappally
- Our faculty members are actively involved in the syllabus restructuring of B.Sc Electronics and Computer Maintenance Programme of M.G.University.
- Mr. Jibin Jose Mathew, Assistant Professor , Department of E & CM was selected as Quality Assurer of ASAP.
- Ms. Julie Ann Joseph ,Assistant Professor, Department of E & CM was a resource person for judging the science exhibition competition held at Rajagiri School, Kalamassery .

Awards/ Recognitions received by students

- Mohammed Najeeb of I B.Sc E & CM was a member of College Netball team that won second place in intercollegiate netball competition held at Kottyam.
- Adish A Soman of I B.Sc E & CM was a member of College Baseball team that won second place in intercollegiate Baseball competition held at Kottayam.
- Three students from III B.Sc E & CM- Ashok P.V, Shinoj P S and Sidharth T won first prizes in 3 national and state level competitions in January 2014
- II B.Sc student Haridas M Naik represented Kerala in the republic day Parade in New Delhi in January 2013.
- III B.Sc student Vibin P Vijayan got selected in the MG University baseball team in 2013
- Aashish Cherian of III B.Sc E & CM was a member of State and M.G University Net Ball team in 2012.
- Vijeesh P C of II B.Sc E & CM was the member of M G University Hockey team in 2011
- Shyam Sunder V.V of II B.Sc E & CM attended the Tal Sainik Camp representing the Kerala & Lakshwadeep contingent at New Delhi in September 2011.

List of eminent academicians and scientists / visitors to the department

Name	Designation	Purpose
Dr. Thomaskutty Mathew	Assistant Professor, University College of Applied Sciences , Edappally	Seminar on RFID

Mr. Sam Kollannore	Assistant Professor, MES College, Marampilly	Seminar
Mr.PaulBert K.T	Assistant Professor, Cochin College	Seminar on Microwave Techniques
Mr. Jagadeesh Kumar P	Assistant Professor, Model Engineering College, Thrikkakara	Seminar on Microcontrollers and Embedded System Development
Mr. Anand M	Assistant Professor, School of Environmental Sciences, CUSAT	Seminar on E- waste management

Seminars / Conferences /Workshops organized & the source of funding

a)National - Nil b)International - Nil

Student profile programme/course wise:

Year	**Applications recieved**	**Selected**	**Enrolled**		**Pass Percentage**
			Male	**Female**	
2011	CAP	36	29	7	71%
2012	CAP	36	29	7	67%
2013	CAP	36	31	5	Ongoing
2014	CAP	36	33	3	Ongoing
2015	CAP	36	32	4	Ongoing

Diversity of Students:

Year	**% of students from same state**	**% of students from other states**	**% of students from abroad**
2011	100%	-	-
2012	100%	-	-
2013	100%	-	-
2014	100%	-	-
2015	97%	3%	-

How many students have cleared national and state competitive examinations such as NET, SLET,GATE, Civil services, Defence services

etc ?

Defence services- 2

Student progression: (against % enrolled)

Student progression against enrolled	**2008- 11**	**2009- 12**	**2010- 13**	**2011- 14**	**2012- 15**
UG to PG	31	27	57	36	33
Employed					
Campus Placement	31	56	12	10	25
Other than campus recruitment	35	17	31	6	7
Entreprenuership / Self Employment	3	0	0	15	3

Details of Infrastructural facilities

b) Department Library : 172 books

b) Internet Facility for staff and Students: Fully Wi-Fi enabled Department

c) Class rooms with ICT facility: Yes

d) Laboratories

A fully equipped Electronics and Computer Maintenance Laboratory with power back up.

A fully equipped Computer lab with 25 computers, Power back up and Wi-Fi connection

Number of students receiving financial assistance from college, university, government or other agencies

Serial Number	**Scholarship**	**2011**	**2012**	**2013**	**2014**	**2015**
1	State Government	6	3	2	4	1
2	College Management	3	3	3	6	6
3	CME Alumini Endowment	0	0	1	1	1
4	College Alumini	0	1	2	2	2

5	UBCHEA	0	0	0	2	2
6	Fees Concession from Management	1	0	0	0	0
	Total	10	7	8	15	12

Details on student enrichment programmes(special lectures/ workshops / seminars) with external experts

- Soft skill training sessions and personality development sessions lead by external experts are regularly arranged for all three classes of students.

- On The Job Training - This is a hands on training workshop included in the syllabus for II B.Sc E & CM students conducted by resource persons from electronic industry for a duration of 30 hours.

Program	Resource Person	Topic	Date
Seminar	Mr.Anand M, Assistant Professor, CUSAT	E- waste management	17th Dec 2015
Seminar	Mr. Naiju M, QUEST Innovative Systems	Embedded System	24th Nov 2015
Seminar	Dr.M.I.Punnoose, Assistant Professor, U.C.College	Media and Latest Technology	18th Aug 2015
Seminar	Mr. Ashok Sandeep K , Molecule Technologies	Web Technologies	16th Feb 2015
Seminar	Mr. Paulbert Thomas, Assistant Professor, Cochin College	Microwave Techniques for Communication	21st Aug 2014
Seminar	Dr.Jagatheesh Kumar P, Sr. Assistant Professor, Model Engineering College	Microcontrollers & Embedded System Development	30th Aug 2013
Workshop	Professionals from Keltron	Electronic System Design	26th Oct 2013
Seminar	Mr Bruce Mathew , Associate Professor, MCA Dept, U.C.College	Open source software	7th Mar 2012
Workshop	Students of III B.Sc E & CM	PC Maintenance & Trouble shooting	8th Mar 2012

Seminar	Mr Bruce Mathew , Associate Professor, MCA Dept, U.C.College	Web 2.0	26th Aug 2011
Workshop	QUEST Innovative Systems	Embedded System	8th Dec 2011

Teaching methods adopted to improve student learning

- ICT enabled teaching and learning and the use of audio visual aids in class room teaching
- Remedial coaching is done for weak students.
- Personality development and soft skill training sessions are regularly conducted by external experts.
- Conducting periodical class tests and assignments
- Power point presentations of students projects and seminars.

Participation in Institutional Social Responsibility (ISR) and Extension activities

- Conducted a seminar on E- waste management on 17th December 2015. Mr. Anand M, Assistant Professor , School of Environmental Sciences, CUSAT was the main speaker.
- Our III B.Sc students are involved in collecting old computers from college and using their hardware skill to make those work. Then the working computers are given to needy students at very reduced rates.
- An exhibition was conducted during Tech Neo 2012. Around 2000 students from various schools and colleges attended the program. The exhibition included students electronic projects, robotic stall , hardware stalls , a 3D theatre etc. A workshop was conducted on PC Maintenance and troubleshooting for college students. An intercollegiate Quiz Competition was also arranged.
- B.Sc E & CM students actively took part in the exhibition 'Bhauthika' conducted by Physics Department in March 2014. There were 9 electronic project stalls, a robotics stall, a computer hardware stall and a 3D stall from the E & CM Department.
- Actively took part in 'Haritha Varsham' – an initiative to clean the campus and to plant new trees on World Environment Day.

SWOC analysis of the department and future plans

Strength

- Dual Core Programme with Electronics and Computer Maintenance as core papers.
- A team of dedicated and competent faculty.
- Higher opportunities for Campus placements.
- Feedback from students and parents are taken regularly and they are carefully evaluated.

Weakness

- Not a post graduate department.
- Not much funding from government agencies for conducting seminars and workshops in self financing programmes.
- In recent years the pass percentage of students have declined.

Opportunities

- Encouraging research by faculty members.
- Using online resources to supplement traditional teaching methods.

Challenges

- Keeping students focused in the face of increasing competition in every sphere.
- Due to semester system, only limited time is available for completing the syllabus.
- About 90% of our students are boys and to motivate them academically is a challenge.

Future plans

- To organize national seminars which are funded by national agencies.
- To enhance learning facilities through website notes and interactive quizzes.
- To increase extension activities

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POST ACCREDITATION INITIATIVES

In addition to the improvisation of several existing procedures and practices to sustain its performance, the College came up with new and pro-active initiatives to improve the overall quality in all its spheres, since the Reaccreditation in 2011, the focus of the college was called to face the challenges of Higher education in the era of globalization and to press towards higher goals and objectives. The college answered this call in the post accreditation period, by addressing issues related to all aspects of college life in a multifaceted way which prepares the student to face an ever-changing world. The college continues to attract students from all backgrounds and provides inclusive quality education that caters to their needs. At present 60% of the students are first generation learners and one can witness their progressive growth from one year to thenext.
The dynamic nature of the college ensures that necessary changes are made so that the quality of the programme offered by the college ether sustained or enhanced. Some of the measures undertaken are given below under the 4 core values identified by NAAC:

National Development

New courses have been started to improve employability of the student and also to fill the need of thecommunity.
B. Com Finance and Taxation,
B. Com (Computer applications)
M.B.A.
M.C.A.(Lateral entry)
M.Sc Zoology

The Centre for Religious studies has undertaken research projects on national and regional issues.

- Extension programmes have always been the "heart" of Union Christian College. This value has been sustained during the post accreditation period through programmes undertaken by individual departments for the rural communities and for Government schools where students are from the low income group. In some instances this has been a coordinated effort by the Science Departments in collaboration with the Kerala ScienceForum
- The Psychology Department of the College got the status of Research Centre.
- The college has coordinated Mahatma Gandhi University research course work in an exemplary manner.
- Our college got 5 stars, the highest accreditation in ASAP a Kerala higher education initiative.

- Sports and NCC continue to be one of the strong points of the college from 2012- 2016.

Our students have won the M.G.University

a. Aggregate Team Game Championship(4-6 Place)
b. Conducted the South zone inter university women hockey tournament in 2014

- Every year, NCC students attend the Republic Day Parade held in New Delhi and four NCC students are selected annually to spend abroad.

- The College continues to support students from the lower socio- economic strata through several scholarships. Additionally, the college has also sought and received help from other funding agencies like Ford Foundation, Scranton and the TrinityScholarship.

- The culture of research is growing in the college with a considerable increase in the number of papers published in indexed journals, articles in books and editing books. The number of funded projects, recognized research centres and research scholars has continuously been on the rise. Several workshops for young interested faculty and joint projects make sure that the research culture ismaintained.

- The research facility in the campus, funded by DST-FIST, encourages and enhances the researchers throughout the state. The Physics, Chemistry and Botany Departments have been recognized as DST-FIST sponsored Departments. The instruments in the Common Science Instrumentation have been well maintained and new research grade equipment added.

- The College has sustained the collaborative initiatives established earlier and has forged newer ones. Further, the college has attracted funds from national and international funding agencies that include UBCHEA, UGC and DST-FIST for research.

- At present the library is equipped with 152124 books, 74980 Journals/Periodicals and 5750 e-data bases like EBSCO and INFLIBNET- NLIST. Students and faculty can access the e-resources anywhere in the campus through a securednetwork.

Learning about self

- Service Learning programmes which link the academic component to service, continues to be offered by Psychology department. As a next step this will become a compulsory part of all department curriculums. Service Learning programmes have led to action research projects involving in Psychology departments.

- The Centre for Inter Faith Relations offers a value Education course on „Ethical responses‟ which helps students appreciate the value of living in a pluralistic society.

- Several programmes related to the environment under the initiative of nature club together with the eco-friendly initiatives on campus helps students become eco-conscious in every aspect of theirlife.

- Different alumnae chapters have been initiated student support system. The outcome of these initiatives is the involvement the alumnae in initiating scholarships for students.

Technology Integration

- Using technology in the teaching learning process has been strengthened in the past 5 years to include the use of e-resources networked throughout the campus. A few faculty members from each department have begun the process of preparing e-content modules for theircourses.
- Concerted efforts are being taken by the college to increase the speed of the internet connectivity in a secured network. The college has a 10 Mbps broadband line provided by NMEICT .Besides MCA department has another 14 Mbps connectivity All department staff rooms, library, conference halls & auditoriums have Wi-Fifacility.

Journey for cultivation of Excellence

- Faculty members are constantly exposed – through workshops, Seminars and training sessions – to new teaching-learning pedagogies, assessment tools, planning techniques and leadership styles to equip them to face the challenges posed by the present generation of students, The College ensures that the need of each level of the faculty is met by arranging programmes according to their specific need. They are also continuously updated in their own area ofexpertise.

- Assessment of faculty members has helped the individual look at themself critically, make necessary changes in their professional life and grow towardsexcellence

- Existing International linkages have been strengthened. International scholars on campus interact with faculty and students through formal and informal sessions and conduct workshops on relevantthemes.

- The College has ensured that the physical infrastructural facilities are systematically updated to meet the new, supplementary and replacement demands of the community. The changes brought about include additional class rooms and laboratories, a Women's Hostel, New Transformer, New incinerator, additional one two wheeler parking lot and CCTV cameras installed in strategic locations.

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325. Justin R Nayagam, 2015. Ergastic Crystals In Identification Of Costus Pictus: A Medicinal Spiral Ginger In Herbal Medicine. *Journal of Experimental Biology and Agricultural Sciences*, August - 2015; Volume – 3(4). 378.- 383 DOI: http://dx.doi.org/10.18006/2015.3(4).
326. Justin R Nayagam and K.I. Mani Varghese, 2015. IBA induced Rooting Characteristics in Golden Shower Tree: Evaluation using SVI Concept. *International Journal of Agriculture and Forestry* p-ISSN: 2165-882X e-ISSN: 2165-88462015; 5(5): 287-290 doi:10.5923/j.ijaf.20150505.04
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328. Justin R Nayagam, and K. I. Mani Varghese, 2015. Sprouting Value Index: A Mathematical Approach for Evaluation of Vegetative Propagation in Tree Species. *American Journal of Environmental Protection*. Volume 4, Issue 6, pp: 271-274, DOI: 10.11648/j.ajep.20150406.11
329. Justin R. Nayagam and Mani Varghese, K. I. 2015. Sprouting Value Index: A Mathematical Approach For Evaluation Of Rooting Media Efficiency. *International Journal of Current Agricultural Research*. Vol. 4, No. 10, PP 145-148.
330. Justin R. Nayagam, Mani Varghese K. I. 2015. Germination Performance in Sowing Media and Root Trainer Performance of Indian Kino Tree. International Journal of Agriculture Innovations and Research: Vol. 4, (3) 469 – 474.
331. Justin R. Nayagam. 2015. Sprouting Value Index: A Mathematical Evaluation Of IBA Induced Rooting Characteristics In Lemon Tree Stem Cuttings. Journal of Multidisciplinary Engineering Science and Technology (JMEST) ISSN: 3159- 0040 Vol. 2 Issue 11, November – 2015.
332. Justin R. Nayagam. 2015. IBA Induced Rooting Characteristics in Night Jasmine Plant: Evaluation Using SVI Concept. RA Journal of Applied Research Volume- 1, Issue- 11,Pages-383-388, Dec-2015. ISSN (e): 2394-6709.
333. Justin R. Nayagam* and Mani Varghese K. I. 2015. Germination Pattern and Root Trainer Performance of *Mimusops elengi* L. South Asian Journal of Experimental Biology; 5 (3): 94-100; 2015.
334. Justin R. Nayagam* and Mani Varghese K. I. 2015. Germination Pattern and Root Trainer Performance of *Terminalia arjuna: A Troublesome Tree Species in Plantation Trials*. Open Access Library Journal; 2: e2167.
335. Justin R. Nayagam, 2015. IBA induced Rooting Characteristics in Coral Bush: Evaluation Using SVI Concept. *International Journal of Current Research*.Volume 8(1), pp. 24964-24967
336. Justin R. Nayagam, 2016. IBA induced Rooting Characteristics in Marathi Moggu Stem Cuttings: Evaluation Using SVI Concept. *International Journal of Current Microbiology and Applied Sciences*.Volume 5(1): 734-739. http://dx.doi.org/10.20546/ijcmas.2016.501.074
337. Justin R Nayagam* and Anitta Roy 2016. Economically Important Plant Diversity along Selected Beach-sides of Central Kerala: Extending Cultivation to Beach-sides

of Indian Peninsula. Journal of Plant Health and Technology. Volume1(1): JPHT-1-001.

338. Presented a paper entitled "Sprouting Value Index: A Mathematical Approach for Evaluation of Vegetative Propagation in Tree Species" in the IFABL (International Forum: Agriculture, Biology and Life Sciences) 2016, held at Kurume, Japan, 5-8 August 2016.
339. Presented a paper entitled "Experimental Service-Learning for Blind Student Development through Regional Partnership" in the International Service – Learning Symposium at Lingnan University, Hong Kong, March 11 – 12, 2016.
340. Presented a paper entitled "Stewardship of Water through Ensuring Sustainable Development of River Banks" in the 4th Asia Pacific Regional Conference on Service – Learning, held at Hong Kong and Mainland China, during June 6 – 7, 2013
341. Published and presented a paper entitled Germination characteristics and root-trainer performance of *Saraca asoca* (Roxb.)de. Wilde. in the proceedings of the national seminar on Conservation, Cultivation and Sustainable Utilization of *Saraca asoca* during 16-17 Oct 2007, at Kerala State Forest Research Institute, Peechi, Thrissur.Pp 60-63.
342. Published a paper in the proceedings entitiled "Clonal planting stock preparation for *Pongamia pinnata*: An indigenous tree species of India for canopy building and forest rejuvenation" in the national seminar on biodiversity conservation in protected areas-opportunities and challenges, held on 23-24th Jan 2009, Christ University, Bangalore.Pp 12-15.
343. Presented and published a paper entitled "Rooting characteristics in *Saraca asoca*: the technology for mass clonal propagule preparation using exogenous application of auxin". Abtracts of Swedeshi Science Congress 2010. pp 63.

BOOKS

Dr. Sebastian Joseph

1. *Cochin forests and the Making of British*, Published by primus, New Delhi, 2015.
2. 'The Great Chavarian Revolution' in Dr. P. F. Gopakumar (ed.), Faces of Social Reform in Kerala, 2015.

Dr. Rajan Varughese

3. Swayambharana College : Sankalpam Yadharthyam ,2015
4. Encounters : A University on Trial 2012.

Chapters in Books Published by Faculty

Jacob George C.

1. "Margaret Atwood's Bodily Harm: Fictional (Re)presentations of a Nation." *Introducing Canadian Literature*: *Revised Edition*. Alwaye: JICS, 2013. 64-70. (ISBN 978-93-5104-994-4).
2. "Robert Kroetsch's *What the Crow Said*: From Chaos to Order." *Introducing Canadian Literature*: *Revised Edition*. Alwaye: JICS, 2013. 95-99. (ISBN 978-93-5104-994-4).

3. "Making their Voices Heard: Emergence of Arabic-Canadian Literature" *Introducing Canadian Literature: Revised Edition*. Alwaye: JICS, 2013. 209-216. (ISBN 978-93-5104-994-4).
4. "Gaia in Isaac Asimov's *Foundation* Novels: Ecological Hypothesis as Fictional Terminus." *Proceedings of UGC Sponsored National seminar onLiterature and the Environment.* Sree Sankaracharya University of Sanskrit. 2016.

Rekha Nair

5. Diaspora Families: a Study of Jhumpa Lahiri's "Unaccustomed Earth" and "Hell-Heaven." *Familial Portraits: Cognizance of Indian Writing in English* (ISBN 978-81-910124-0-8).
6. "Intended Level of Competence and Actualized Level of Performance" *Proceedings of the U.G.C sponsored national seminar on 'Models of Teaching: An Enquiry into the Pedagogical Discourses of Teaching in Humanities, Social Sciences and Technology*, M.E.S College, Marampally.; ISBN: 978-81-923985-0-1.
7. "De-contextualised Reading Components as a raison d'etre for Learner Alienation: A Critique of the Undergraduate Programme of M. G. University." *Proceedings of the U.G.C sponsored national seminar on 'Models of Teaching: An Enquiry into the Pedagogical Discourses of Teaching in Humanities, Social Sciences and Technology*, M.E.S College, Marampally.; ISBN: 978-81-923985-0-1.

Alwin Alexander

8. "Carnivalised Scripture: A Bakhtinian Reading of *Christ Recrucified* by Nikos Kazantzakis." *Revisitations: The Politics of Rewriting Old Texts.* Irinjalakkuda: PG Dept. of English, St. Joseph's College, 2011. 67-74.
9. "Franciscan Carnival: A Dialogic Study of Eco-Spirituality in *God's Pauper*." *Green Perceptions: Ecology and Texts*. Kalamassery: Dept. of English, St. Paul's College, 2011. 58-63.
10. "The Search for Self: A Bakhtinian Approach to the Self/Other Dialogue in Lalithambika Antharjanam's *Agnisakshi*." *Deconstructing Foundations: Postmodern Perspectives in Writing*. Changannur: Dept. of English, Christian College, 2011. 20-26.
11. "Nature Unfinalized: A Bakhtinian Reading of Literary Ecology in Bibhutibhushan Bandyopadyaya's *Aranyak*." *Indian Literary Historiography andCounter Currents in Postcoloniality*. Eds. Asha Susan Jacob and Tom Thomas. Kozhencherry: PG Dept. of English, St. Thomas College, 2012. 34-42.
12. "Emerging (Cyber)Spaces: Paradigms of Transformed Sensibilities in Mukundan's *Nrutham." Remapping of Reality Through Visual Technology: Interdisciplinary Engagements.* Ed. Dr. Tessy Anthony C. Cochin: Dept. of English and Centre for Research, St. Teresa's College, 2012. 79-84.
13. "Dialogising Didactics: Reckoning Pedagogy with Reader-Response Theory and Bakhtinian Templates". *Global Dimensions of English*. Ed. Dr. S. Stephen Jebanesan. Chennai: Research & PG Dept. of English, Madras Christian College, 2013. 15-25
14. "Narrativising the Subaltern: The Site/Sight of the Couple in Kamala Das' Poetry." Portrayal of Family in Indian Writing in English - Seminar

Proceedings – UGC National Seminar Organised by Dept. of English NMSS Vellaichamy Nadar College, Madurai on the 15th of March 2013.

15. "Vanyathakalude Ithihasam: Parisdhithimanovignaneeyam Khasakinte Ithihasathil." *Ithihasangalude khasak*. Editor. N. Jayakrishnan. Thiruvananthapuram: Bhasha Institute, 2011. 548-556.
16. "Aalahayude pennmakkalil Zelofehadinte puthrimare adayalappeduthumpol" *Sthreinaathmeeyatha: Vicharangal vishakalanangal*. Editor. Dr.Mini Alice. Thiruvalla: C.S.S.,2012. 137-145.
17. "Ooranubhavangalude Uriyaattangal". *Pandu Saattu Kalichappol*. Sibu Modayil. Thiruvananthapuram: Parithi Publications, 2013.
18. "Introduction". *Reverent Reminiscences*. Dr. A. M. Chacko. Thiruvalla: CSS, 2013.
19. 'Udalinte Punarakhyanangal' in *Nashtapetta Naanayam* ed. Sr. Dr. Noel Rose Published by SPCS, Kottayam. 2014
20. 'Dialogising Didactics: Bakhtinian Concepts as Templates for Pedagogy' in *Innovations in ELT in the Changing Contex*t eds. Prashant Mishra & G. A. Ghanashyam Published by Sarup Books, New Delhi 2014
21. 'Consumptive Matter: Food as an Apparatus in *The Edible Woman' Journal of Indo-Canadian Studies: Pespectives on English Language Pedagogy* ed. Dr. Jacob George C Published by JICS . 2014
22. 'What's Cooking? – Decoding the Table in Malayalam Movies' in *Re-tracking the Celluloid: History, Politics and Popular Culture in Films eds.* Dr. J Anjana & Renjith Krishnan K R. 2014.

Sheenu Varghese

23. "De-contextualised Reading Components as a raison d'etre for Learner Alienation: A Critique of the Undergraduate Programme of M. G. University." *Proceedings of the U.G.C sponsored national seminar on 'Models of Teaching: An Enquiry into the Pedagogical Discourses of Teaching in Humanities, Social Sciences and Technology* M.E.S College, Marampally.; ISBN: 978-81-923985-0-1.

Nino Baby

24. Women on Wheels: The *She-taxi* Initiative in Kerala as a Strategy for Empowerment of Women
25. Dr. P.V. Sreenivasan contributed a chapter in a book titled "Engineering Chemistry and Environmental studies" (2014).

Seena M. Mathai

26. The effect of psychosocial intervention in the management of menopausal complications. In *Reaching Our Voices-Psychology of Women.* Germany: Lambert academic Publishing
27. Personality Development. In B.N Ghosh (Eds.) *Soft Skill Management and personality Development*, New Delhi: Tata Mc Graw Hill.
28. (2012) Decision making. In B.N Ghosh (Eds.) *Soft Skill Management and personality Development*, New Delhi: Tata Mc Graw Hill.

Neelima Ranjith.

29. Clinical and demographic profile of degenerative dementia from a memory clinic in south Kerala. In Dhanya N. (Eds.), Ageing and Society – A Multi

Disciplinary Approach. Excel India Publishers, New Delhi, ISBN: 978-93-82062-84-4.

30. Serial position curve. In Nobert M. Seal (Eds.), *Encyclopedia of Science of Learning, Part 19* (3050-3051). Springer Publication. Citation index 35

Books & Journals Edited

Dr Jacob George C.

1. *Introducing Canadian Literature*: *Revised Edition*. Alwaye: JICS, 2013. 64-70. (ISBN 978-93-5104-994-4).
2. *Journal of Indo-Canadian Studies* (ISSN 0972-330) 6:1&2, 2014. 24-37.
3. Advisory Editor, *Journal of English Language and Literature*(ISSN 1412-3320) Soegijapranata University, Indonesia).

Cheri Jacob K.

4. Editor cum Correspondent International Film Festival of Kerala Official Daily Bulletin English (for Department of Cultural Affairs)

Alwin Alexander

5. Assistant Editor, *Journal of Indo-Canadian Studies*(ISSN 0972-330) 2014.
6. Edited &translated *Feminine Spirituality* Thiruvalla: CSS Books, 2014.

Akhila Narayanan

7. Assistant Editor, *Journal of Indo-Canadian Studies*(ISSN 0972-330) 2014.

Hindi

R S Radhika :Article published in ` Sahitya Mandal Pathrika ` on the topic ` *Samay Se Sarokaar Rakhta Sahityakar* ` .

An Article based on the Poetry Collection entitled ` *Bhoomikayein Khatam Nahin Hoti* ` by Harishchandra Pandey was published in the book entitled ` Kavita Ka Varthaman ` edited by Dr. P. Ravi .

Dr Ruby Elsa Jacob :
An Article based on the Poem Collection of Swapnil Srivastava entitled ` *Swapnil Srivastav Ki Kavitavom Mem Bharateeyata* ` published in Anusheelan Patrika by Department of Hindi , CUSAT. (January 2011)

Article titled ` *Samakaleen Hindi Upanyasom Mem Visthapan* ` was published in Bharatha Patrika Trilingual Monthly (January – March 2014) issue.

Article Published in Bharatha Patrika Trilingual Monthly (April – May 2015) issue entitled ` *Samakaleen Upanyasom Mem Pravasi Bharateeyom Ka Yatharth* `.

Students' Publications

1. Sherin Jose. (2015). *Resilience and well being among Athletes and non athletes.* UGC sponsored National seminar on 'Health and Life style'. Department of Physical Education, Union Christian College, Aluva.

2. Thanooja Faisal & Seena M. Mathai. (2015). *Resilience and spirituality among athletes and non-athletes.*UGC sponsored National Seminar on 'Health and Life style'. Department of Physical Education, Union Christian College, Aluva.

3. Pranav Jacob & Marikutty P. J. (2015) *Emotional intelligence in athletes and non-athletes: A comparative study*. UGC sponsored national seminar on "Health and Life style". Department of Physical Education, Union Christian College, Aluva.

4. Rinsa Jacob & Chinnu Abraham. (2014). *Perceived loneliness among adolescents: A cross cultural perspective.* UGC sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.

5. Jain George, Jinson Elias & Neelima Ranjith. (2014). *Cyber Bullying among Adolescents*. UGC sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.

6. Shony Mathew P. J. & Vidhya Ravindranadan. (2014). *Vocational Rehabilitation of Mild and Moderate Mentally Challenged Adults*, UGC sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.

7. Merin Valsan & Marikutty, P. J. (2014) *Internet addiction among College students.* UGC sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.

8. Neelu Sunny & Neelima Ranjith. (2014). *Personality Characteristics Reflecting Achievement Motivation of Adolescents,* UGC sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.

9. Christina Mariam Chacko. (2014). *'Psychological correlates of academic performance'* UGC sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.

10. Christina Mariam Chacko (2014). *The contribution of academic performance to happiness and positive self-esteem among adolescents*, Christ University Bangalore.

11. Meghana Shankar, Christina Mariam Chacko & Syna Soosan Abraham. (2014). *Psychological correlates of academic performance*. UGC sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.

12. Rinsa Jacob & Shema Elizabeth Kovoor. (2014). *Perceived Loneliness among Adolescents- A Cross Cultural Perspective.* UGC sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.

13. Chinnu Abraham & Shema Elizabeth Kovoor. (2014). *Perceived Loneliness among Adolescents.* UGC sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.

14. Sherin Jose. (2014). *Resilience and well being among Athletes and non athletes* at the two day UGC sponsored National seminar on 'Counselling and Psychotherapy'. Prajyoti Niketan College, Pudukkad, Trissur, 5 - 6 December.

15. Swathymol, P. S. & Seena M. Mathai. (2014). *Relationship of self-efficacy and self –regulation on menopausal adjustment.* UGC Sponsored National Conference on 'Enhancing Psychological Well Being' (NCEPW2014), Department of Psychology Bharathiar University, 20-21 February.

16. Athulya Manohar & Seena M. Mathai. (2014). *Social Support as a Determinant Factor in Menopause Management.* UGC Sponsored National Conference on 'Enhancing Psychological Well Being' (NCEPW2014), Department of Psychology, Bharathiar University, 20-21 February.

7. 17 .Rohini V. S. & Seena M. Mathai. (2014). *Perceived stress among Private and KSRTC bus drivers*. UGC Sponsored National Seminar on 'Counselling and Psychotherapy, Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 – 6 December.

17. Thanooja Faisal & Seena M. Mathai. (2014). *Resilience and spirituality as correlates of psychological well-being*. UGC Sponsored National Seminar on 'Counselling and Psychotherapy, Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 – 6 December.

18. Sherin Jose & Seena M. Mathai (2014). *Resilience and well-being among athletes and non-athletes*. UGC Sponsored National Seminar on 'Counselling and Psychotherapy', Department of Psychology, Prajyoti Niketan College, Pudukad, Trissur, 5 - 6 December.

19. Jills Varghese, Swathymol P. S. & Seena M. Mathai. (2013). *Relationship of resilience with life satisfaction and sensation seeking among hockey players*.

23rd National Conference of Sports Psychology, 29-31 January, Christ College, Iringalakuda, Kerala.

20. Paul John Konat & Seena M. Mathai. (2013). *Anxiety and self- efficacy as predictors of task orientation among athletes*. 23rd National Conference of Sports Psychology, 29-31 January, Christ College, Iringalakuda, Kerala.

21. Pranav Jacob Varghese, Eldhose Mathai & Seena M. Mathai (2013). *Self-efficacy, resilience and humor as coping among athletes and non-athletes.* 23rd National Conference on Sports Psychology, 29-31 January, Christ College, Iringalakuda, Kerala.

22. John, P. K. & Seena M. Mathai (2013). *Perceived autonomy support and motives of physical activity as predictors of athletic performance*. National conference on 'Positive Psychology', Pondicherry University.

23. Ashya K. Salim, Nikitha Sunny, Vimal Y. Johnson & Seena M. Mathai (2013). *Enhancing Self Efficacy - the Role of National Service Scheme in the Enhancement of Self efficacy among College students*. National conference on 'Positive Psychology' Pondicherry University.

24. M.K. Arjunan & Seena M. Mathai (2013). *Mental health status, Locus of control and Perceived self-efficacy of adolescents from broken and intact families- A comparative study*. National conference on' Positive Psychology', Pondicherry University.

25. Vidya N. & Seena M. Mathai (2012). *Comparative analysis of personality, leadership styles and emotional intelligence among today's most preferred professionals*. National conference on 'Positive Psychology', Pondicherry University.

26. Tanya Francis, Syna Soosan Abraham and Seena M. Mathai. (2012). *Optimistic attitude and Happiness- An analytical study on the influence of grandparents in personality development in adolescence*. National conference on 'Positive Psychology', Pondicherry University.

27. Paul John Konat & Seena M. Mathai. (2012). *Sensation seeking among high and low achieving varsity athletes*. International Conference of Applied Psychology, Chandigarh University, 24-25 February.

28. Eldhose N. J., Rony Ninan Koshy & Seena M. Mathai (2012). *Self-esteem of Athletes and Non-Athletes*. International Conference of Applied Psychology, Chandigarh University, 24-25 February.

29. Xavier S. & Seena M. Mathai. (2012). *Predictors of self-efficacy among athletes*. International Conference of Applied Psychology, Chandigarh University, 24-25 February.

30. Jeena Johny & Seena M. Mathai. (2012). *Locus of Control and Self-Esteem among Television Professionals*. National conference on 'Positive Psychology', Social Integrity and Adolescence, 21 - 23 January.

31. Ashiya K. Salim, Nikitha Sunny & Seena M. Mathai. (2012). *Enhancing Self efficacy- the Role of National Service Scheme in the Enhancement of Self efficacy among College students*. National conference on 'Socio Cultural Prospects of Positive Psychology in India', Little Flower Institute of social Sciences and Health, Kozhikode

32. Akhil S. K, Labeeb P. K., Syna Soosan Abraham and Seena M. Mathai. (2012). *A survey on the road blocks to the holistic development of adolescents*. National seminar on 'Psychological counselling: Practices, Problems and Prospects', Govt. College for Women, Thiruvanathapuram, Sponsored by the Department of Collegiate Education

33. Akhil S. Kumar, Mohammed Labeeb P. K., Syna Soosan Abraham. (2012). *A survey on the road blocks to the holistic development of adolescents*. National seminar on 'Psychological counselling: Practices, Problems and Prospects', Govt. College for Women, Thiruvanathapuram, Sponsored by the Department of Collegiate Education.

34. Praseetha Sukumaran & Syna Soosan Abraham. (2012). *Emotional intelligence: A comparative study on male and female College students*. National conference on 'Socio Cultural Prospects of Positive Psychology in Indi'a, Little Flower Institute of Social Sciences and Health, Kozhikode.

35. Syna Soosan Abraham & Rohini Reghunath. (2012). *Awareness of health &hygiene practices*. International conference of the Indian Academy of Applied Psychology. Toc H institute of science and technology, Ernakulum.

36. Tanya Francis, Syna Soosan Abraham & Seena M. Mathai. (2012). *Optimistic attitude and happiness in life: An analytic study of the contribution of grandparents to personality development of children*. International conference of the Indian Academy of Applied Psychology. Toc H institute of science and technology, Ernakulum.

37. Vidya N. & Seena M. Mathai (2012). *Comparative analysis of personality, leadership styles and emotional intelligence among today's most preferred professionals.* 47th National and 16th International Conference of the Indian Academy of Applied Psychology, Toc H Institute of Science and Technology, Ernakulam, 15 – 17th June.

38. Divya Krishna, Aiona Liz, Syna Soosan Abraham & Seena M. Mathai. (2012). *Influence of media exposure on proactive coping method among adolescents.* International conference of the Indian Academy of Applied Psychology. Toc H institute of science and technology, Ernakulum.

39. Vidya N. & Neelima Ranjith. (2012). *Outlook towards Crime and Criminal Behaviour among Youth.* National Conference on 'Socio Cultural Prospects of

Positive Psychology in India', Little Flower Institute of Social Sciences and Health, Kozhikode, 23 -25th January.

40. Divya Krishna. (2012). *Anxiety and frustration tolerance: A comparative study between diabetic and non diabetic people*. Interdisciplinary Research Fair. ReAP (Research Advancement Programme) organized by Department of home science, St. Teresa's College, Ernakulam.

41. Akhil S. K, Labeeb P. K., Syna Soosan Abraham (2011). *Attitude towards the use* of *corporal punishment and self esteem of higher secondary school teachers.* UGC sponsored National Seminar on 'Self Esteem and Mental Health Promotion among Teacher's. SNM training College, Muthakunnam, Ernakulam, Kerala.

Malayalam Department

Dr. Muse Mary George

Peer Reviewed Journal

1. Samakalika Madhyamangalile Stree, Malayalam Research Journal, May-August 2012
2. *Pothujeevithathinte Kathakal*, *Bhashaposhini*, October 2015.
3. Painkili padum kalathekkurishe, Grandhalokam October 2013
4. *Pannikal*, *Bhashaposhini*, September 2015.
5. Kalame Kelkka, Sahithya Chakravalam, Dec 2013
6. *Kanappedunnavayum Kanappedathavayum*, Pranahta Book, March 15
7. *Premathinte Pravarthy mandalangal*, Thanma Magazine, may 2015
8. *Vartha oru Sareeramane*, Sasthragathi, March 15
9. *Premathekurishe pinneyum*, Padabhetham, April 2015
10. *Veendum chila veettukaryangal*, Madhavum Chinthayum, July to August 2014
11. Pennezhuthum Pothu Samuhavum, Assisi November 2013

Dr. M.I. Punnoose

12. Sunday school Adhyapanam Enna samoohika saparya, article published in the church weekly magazine, September, 2012
13. Christian Vamozhi Paramparyam: article published in Samrakshakan Magazine, March 2013
14. Borobudoorile Vismaya Kazchakal, published in Church weekly, June, 20
15. Indonesian Orma Kuripukal , travelogue published in Church weekly, December,2012

Dr. Mini Alice

16. Veruvevunilamillaattha Adukkalakal – Puthukaala Penkavithakalkkoru Padanam, Samghaditha, 2014 October
17. Penkoodukal Unarum Kaalam, Viswadarmam, 2014 March
18. Pazhamarappacchakalude Kavitha, Kairaliyude Kaakka, 2014 April
19. Koodaaravaasiyaaya Daivam, Church Weekly, 2014 June
20. Pranayachashakam Mattolam Nukarnnu, , Kairaliyude Kaakka, 2014 July

Dr. Vidhu Narayan

21. Computerum Bhashayum Malabar Research Manual(Peer Reviewed Journal) Vol .1 No.1 April 2013ISSN 2320 - 947X
22. Asan Padanam Veekshanangalum Viyojanakurippukalaum Vivekodayam Journal, Kumarana Asan National Institute of Culture, Govt. of Kerala, Thonnakkal, Thiruvananthapuram, 2013 july- September issue
23. ONV Kavithakalile Kalidasan Sargabahrathi Jounal 2015 June ISSN 2454-8472
24. Malayala Natakam Sameepanangalum Sadhyathakalum(Editor)Bhoomi Malayalam Journal Book8 issue 1 January 2016

Capt.K.S.Narayanan

25. Editor - Paurasthya Saahithya Siddhaanthangal – Prasakthiyum Prayogavum – compilation of seminar proceedings conducted by vidwan P. G Nair research centre Department of Malayalam, U.C.College,AluvaISSN No.2394-9791 Book 7/Issue 1/February 2015

Dr. Sibu M. Eapen

26. Keralathile parppida sangalpam kerala Bhasha institute Thiruvananthapuram
27. Purusharachanakalile sthreebimbangal Vinjanakairali pattu kerala Bhasha institute Thiruvananthapuram February 2012
28. Venalinte kathiyum mazhayude hrudayavum oruma monthly Thiruvananthapuram ISSN NO.2320-1568 September 2013
29. Samanwayathinte soumya vazhikalum sandhiyakatha samaramozhikalum Oruma monthly Thiruvananthapuram April 2011 ISSN NO.2320-1568

Dr.Aju K.N.

30. " Prayuktha Vamseeya Sangeetha Patanam", Keli Bi-monthly, The official Journal of Kerala Sangeetha Nataka Akademi, Thrissur, February-May, 2012.
31. "Mahabharathathile Varnavamsa Vyathakal", Bhashaposhini, Kottayam, August, 2015.
32. "Cinemayile Nirangalude Soundarya rashtreeyangal", Bhashaposhini, January, 2012, Kottayam.
33. "Cheettu- Verukal, Vazhikal", Bhashaposhini, August, 2012, Kottayam.
34. Cinemayile Folklore, Cinema enna Folklore", Left Word Monthly, Thiruvananthapuram, December, 2015.
35. "Boddhi: Cinemayil oru prathishedham ", Mathrubhumi Daily, July 6, 2015.
36. "Gomamsam enna rashtreeya bhakshanam ", Samakalika Malayalam Weekly, Ernakulam, April 3, 2015.
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Mr.Saju Mathew

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Ms.Shimi Psaul

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Books

Dr. Muse Mary George

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2. Udaladhikaram – Book published by Olive Publishers, Kozhikkode, May 2015.

Lokakavitha (Study, Editor) Text Book for 2nd Semester BA Malayalam Text Book – Published by Mahatma Gandhi University, Central Co-operative Society December 2011

Dr.Vidhu Narayan

3. Kaalyakalam6th Semester BA Malayalam Text Bookpublished by M.G.University Central Co-operative storeNovember2011

Dr.Sibu M. Eapen

4. Arangu muthal Abhrapali Vare-Study-State Institute of Languages, Thiruvananthapurm.

Kathunna Kaalukal Poetry Study-Z library Thiruvananthapurm.

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Pahzhayakrithi puthiyavayana,2011,U.C College,Aluva**.**

Dr. M.I. Punnoose

Books Edited

1. Edited a research journal titled "Vamseeyatha;Vicharavum Veekshanavum**"**

2. Published 8 issues of Darpanam literary magazine

3. Edited Snehahastham, a journal published by the journalism students.

4. Edakali Pattukal Oru Patanam, published in Christial Folklore, published by Folklore Academy.

Dr. Mini Alice

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Dr. Vidhu Narayan

8. Malayalavum Samkethikathayum Book-Malayalam Thayverukal puthunampukal, Dakshina, Chennai page-332-337 ISBN No 81-9230832 Publication year: 2015
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Dr. Aju K.N.

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UGC National seminar, 2012, Postgraduate department of English, St.Thomas College, Kozhencherry.

Mr. Saju Mathew

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Ms. Shimi Paul Baby

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21. "Athmakathayile chritraparatha" thudi-Kannur University Publications,2014 april, ISBN 2320-888

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Mahatma Gandhi University

PRIYADARSINI HILLS P.O., KOTTAYAM - 686 560

(Established by Kerala State Legislature by Notification No. 3431/Leg. CI/85/Law, dated 17th April 1985)

Ac A1/1/230/2015 23.02.2016

TO WHOM IT MAY CONCERN

This is to certify that Union Christian College, Aluva, Ernakulam Dist., Kerala, Pin – 683 102, offering the following programmes is an aided Arts and Science College affiliated to Mahatma Gandhi University, Kottayam, Kerala.

Sl.No.	Name of the Course(s) and duration		Affiliation Permanent/Temporary	Period of validity
1	BA English	(3 Years)	Permanent	
2	BA Malayalam	(3 Years)	Permanent	
3	BA Economics	(3 Years)	Permanent	
4	BA History	(3 Years)	Permanent	
5	B.Sc. Psychology	(3 Years)	Permanent	
6	B.Sc. Mathematics	(3 Years)	Permanent	
7	B.Sc. Physics	(3 Years)	Permanent	
8	B.Sc. Chemistry	(3 Years)	Permanent	
9	B.Sc. Botany	(3 Years)	Permanent	
10	B.Sc. Zoology	(3 Years)	Permanent	
11	B.Sc. Computer Science Model III	(3 Years)	Permanent	
12	MA English	(2 Years)	Permanent	
13	MA Malayalam	(2 Years)	Permanent	
14	MA History	(2 Years)	Permanent	
15	MA Economics	(2 Years)	Permanent	
16	M.Sc. Psychology	(2 Years)	Permanent	

MAHATMA GANDHI UNIVERSITY KOTTAYAM

Exchange : EPABX : 0481-2731050 to 2731068 Enquiry : 0481-2731050 - Extn. 1199, 1300, 1378, 1274
Fax : 91-481-2731002, 2731009, 2731011 Website : www.mguniversity.edu E-mail : mgu@md2.vsnl.net.in

17	M.Sc. Mathematics (2 Years)	Permanent	
18	M.Sc Physics (2 Years)	Permanent	
19	M.Sc. Chemistry (2 Years)	Permanent	
20	M.Sc. Botany (2 Years)	Permanent	
21	M.Sc. Zoology (2 Years)	Permanent	
22	B.Sc Biological Techniques & Specimen Preparation (Self Financing) (3 Years)	Temporary	2015-16
23	B.Sc. Electronics with Computer Maintenance (Self Financing) (3 Years)	Temporary	2015-16
24	B.Com. Computer Applications Model I (Self Financing) (3 Years)	Temporary	2015-16
25	B.Com. Finance & Taxation Model II (Self Financing) (3 Years)	Temporary	2015-16
26	M.Sc. Biotechnology (Self Financing) (2 Years)	Temporary	2015-16
27	M.Sc. Bioinformatics (Self Financing) (2 Years)	Temporary	2015-16
28	MCA (Self Financing) (2 Years)	Temporary	2015-16
29	MCA (Lateral Entry) (Self Financing) (2 Years)	Temporary	2015-16
30	MBA (Self Financing) (2 Years)	Temporary	2015-16

MAHATMA GANDHI UNIVERSITY KOTTAYAM

REGISTRAR
Joint Registrar-in-charge of
REGISTRAR

Office of the Deputy Director of
Collegiate Education
Ernakulam – 682 011
Phone – 0484-2362268
Dated – 30/03/2016

CERTIFICATE

This is to certify that, Union Christian College, Aluva, Ernakulam District, Kerala – 683 102, is a private aided Arts and Sciences College, affiliated to the Mahatma Gandhi University, Kottayam under Direct Payment System is receiving grant-in-aid funds towards salary from the Government of Kerala.

This certificate is issued on request for submission before the U.G.C for the registration of E-schemes portal.

DEPUTY DIRECTOR OF COLLEGIATE EDUCATION

(Office seal)

23236735/ 23239437/23235733
23232701
23237721/ 23232317/23234116/
23236351

UGC Website : www.ugc.ac.in

UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAGAR MARG
NEW DELHI-110002
विश्वविद्यालय अनुदान आयोग
बहादुरशाह जफर मार्ग
नई दिल्ली – 110 002

F.1-1/2016 (CPP-I/C)

March, 2016

The Principal
Union Christian College
Alwaye – 683 102
Dist. Ernakulam
Kerala

14 MAR 2016

Subject : Recognition of College under Section 2(f) and 12 (B) of the UGC Act, 1956.

Sir/Madam,

With reference to your letter dated 25.01.2016 on the above subject, I am to inform you that the name of **Union Christian College, Alwaye – 683 102, Dist. Ernakulam, Kerala** established in the year of **1921,** affiliated to **Mahatma Gandhi University, Kottayam** has **already** been included in the list of Colleges maintained under Section **2(f) & 12 (B)** of the UGC Act, 1956 under the head **Non - Government** College teaching upto **Master's** Degree.

Yours faithfully,

Charan Das

(Charan Dass)
Under Secretary

Mahatma Gandhi University

PRIYADARSINI HILLS P.O., KOTTAYAM - 686 560
(Established by Kerala State Legislature by Notification
No. 3431/Leg. CI/85/Law, dated 17th April 1985)

CERTIFICATE

Certified that **Union Christian College, Aluva,** affiliated to Mahatma Gandhi University, Kerala is included under section 2(f) & 12B of the UGC Act 1956. The college is included on page **487** in the list of colleges under section 2(f) & 12B of UGC Act published by the UGC and updated as on 31st January 2017 .

Priyadarsini Hills
Date: 09.03.2017

DIRECTOR
College Development Council

COLLEGE DEVELOPMENT COUNCIL * MAHATMA GANDHI UNIVERSITY * KOTTAYAM PIN- 686 560

Exchange : EPABX : 0481-2731050 to 2731068 Enquiry : 0481-2731050-Extn. 1199, 1300, 1378, 1274
Fax : 91-481-2731002, 2731009, 2731011 Website : www.mguniversity.edu E-mail : mgu@md2.vsnl.net.in

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi 110 001
PHONE. 23724151/52/53/54/55/58/57 FAX. 011-23724183 www.aicte-India.org

F.No. South-West/1-2812317226/2016/EOA

Date: 06-Apr-2016

To,

The Principal Secretary,
Deptt. Of education, Govt. of Kerala,
Govt. Sectt. Annexe,
Thiruvananthapuram-695001

Sub: Extension of approval for the academic year 2016-17

Ref: Application of the Institution for Extension of approval for the academic year 2016-17

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	South-West	Application Id	1-2812317226
Name of the Institute	UNION CHRISTIAN COLLEGE,ALUVA	Permanent Id	1-5170961
Name of the Society/Trust	UNION CHRISTIAN COLLEGE ,ALUVA	Institute Address	U.C COLLEGE PO, ALWAYE. ERNAKULAM DIST, KERALA. COCHIN, ERNAKULAM. Kerala, 683102
Institute Type	Unaided - Private	Society/Trust Address	U.C COLLEGE PO, ALWAYE, ERNAKULAM DIST, KERALA,ALUVA,ERNAKULAM,Kerala,683102

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2016-17

Application Id: 1-2812317226 Course			Full/Part Time	Affiliating Body	Intake 2016-16	Intake Approved for 2016-17	NRI Approval status	PIO / FN / Gulf quota Approval status	Foreign Collaboration/Twining Program Approval status*
Program	Shift	Level							
MCA	1st Shift	MCA 2nd Year Direct	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	Mahatma Gandhi University, Kottayam	60	60	NA	NA NA

Application Number: 1-2812317226
Note. This is a Computer generated Report.No signature is required.

Page 1 of 2
Letter Printed On:7 May 2016

Printed By : AI-686-8411

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011 23724183 www.aicte-India.org

MCA	1st Shift	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	Mahatma Gandhi University, Kottayam	60	60	NA	NA	NA

The above mentioned approval is subject to the condition that UNION CHRISTIAN COLLEGE,ALUVA shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti Ragging Regulation: Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Note: Validity of the course details may be verified at www.aicte-india.org

Dr. Avinash S Pant
Vice - Chairman, AICTE

Copy to:

1. **The Regional Officer,**
   All India Council for Technical Education
   Health Centre Building
   Bangalore University Campus
   Bangalore - 560 009, Karnataka
2. **The Director Of Technical Education,**
   Kerala
3. **The Registrar,**
   Mahatma Gandhi University, Kottayam
4. **The Principal / Director,**
   UNION CHRISTIAN COLLEGE,ALUVA
   U C COLLEGE PO, ALWAYE, ERNAKULAM DIST, KERALA,
   COCHIN,ERNAKULAM,
   Kerala,683102
5. **The Secretary / Chairman,**
   UNION CHRISTIAN COLLEGE ,ALUVA
   U C COLLEGE PO, ALWAYE, ERNAKULAM DIST, KERALA,
   ALUVA,ERNAKULAM,
   Kerala,683102
6. **Guard File(AICTE)**

Application Number: 1-2812317226
Note: This is a Computer generated Report.No signature is required.
Printed By : AL6060411

Page 2 of 2
Letter Printed On:7 May 2016

राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

Certificate of Accreditation

The Executive Committee of the
National Assessment and Accreditation Council
on the recommendation of the duly appointed
Peer Team is pleased to declare the
Union Christian College
Aluva, affiliated to Mahatma Gandhi University, Kerala as
Accredited
with CGPA of 3.35 on four point scale
at A grade
Valid up to March 26, 2016

Date : March 27, 2011

Director

EC/55/KAR/10

राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

Quality Profile

Name of the Institution : Union Christian College

Place : Aluva, Kerala

Criteria	*Weightage (W_i)*	*Criterion-Wise Grade Point Averages (Cr_i GPA)*	W_i X Cr_i GPA
I. Curricular Aspects	050	3.40	170
II. Teaching-Learning and Evaluation	450	3.17	1427
III. Research, Consultancy and Extension	100	3.75	375
IV. Infrastructure and Learning Resources	100	3.40	340
V. Student Support and Progression	100	3.90	390
VI. Governance and Leadership	150	3.33	500
VII. Innovative Practices	050	3.00	150
Total	$\sum_{i=1}^{7} w_i = 1000$		$\sum_{i=1}^{7} W_i$ X Cr_i GPA = 3352

$$\text{Institutional Score} = \frac{\sum_{i=1}^{7}(W_i \text{ X } Cr_i GPA)}{\sum_{i=1}^{7} W_i} = \frac{3352}{1000} = 3.35$$

Grade = A

Descriptor = VERY GOOD

Date : March 27, 2011

Director

- This certification is valid for a period of Five years with effect from March 27th 2011
- An institutional CGPA on four point scale in the range of 3.01 - 4.00 denotes A grade (Very Good), 2.01 - 3.00 denotes B grade (Good), 1.51 - 2.00 denotes C grade (Satisfactory)
- Scores rounded off to the nearest integer

BC/55/RAR/105

Diary No. 4786

ज्ञान-विज्ञान विमुक्तये

विश्वविद्यालय अनुदान आयोग
नैरुत्य प्रादेशिक कार्यालय
UNIVERSITY GRANTS COMMISSION
SOUTH WESTERN REGIONAL OFFICE
P.K. Block, Palace Road, Gandhinagar
Bangalore-560 009.
Phone : (080) 2228 0380 Fax : (080) 2228 0381

3-4(012)/2012(UC)(XII PLAN)/KLMG012/SWRO

The Accounts Officer
South Western Regional Office
University Grants Commission
P.K. Block, Palace Road
Gandhinagar, Bangalore

21-Mar-14

Sub: Release of Grants-in-aid to UNION CHRISTIAN COLLEGE, ALUVA, ERNAKULAM DISTRICT for the year 2013-2014 under "General Development Assistance" (Plan)

Sir/Madam,

I am directed to convey the sanction of the University Grants Commission for payment of grant of Rs.2865512/- for the year 2013-2014 equivalent to 40% of XIIth Plan allocation to UNION CHRISTIAN COLLEGE, ALUVA, ERNAKULAM DISTRICT for 'General Development Assistance" (Plan), expenditure to be incurred during 2013-2014.

NAME OF THE SCHEME	HEAD OF ACCOUNT	ALLOCATION Rs.	GRANT TO BE SANCTIONED BY 2013-14 40% OF ALLOCATION Rs	GRANT ALREADY SANCTIONED IN 2012-13 AS Ad-hoc GRANT (Other than Building) Rs.	GRANT NOW BEING SANCTIONED (Other than Building) Rs.	BALANCE Rs.
General Development Assistance (Block Grant)	2(B)	7726280/-	3090512/-	225000/-	2865512/-	4635768/-

You are requested to utilise the sanctioned amount proportionately as detailed below :-

GENERAL - 2220771.8/-	SC - 429626.8/-	ST - 214913.4/-

1. The amount released may be utilised within the allocated amount under Grant-in-aid General (31) and Capital Assets (35) as conveyed vide letter no. 3-4(012)/2012(UG)(XII PLAN)/KLMG012/SWRO dated 21-Mar-2014. Re-appropriation of funds between Grant-in-aid General (31) and Capital (35) is not permissible.
2. The sanctioned amount is debitable to 2(B) and is valid for payment during the financial year 2013-2014 only.
3. The amount of the Grant shall be drawn by the Accounts Officer/Drawing and Disbursing Officer, South Western Regional Office, UGC, Bangalore on the Grants-in-aid bill and shall be disbursed to and credited to the Principal of the College through Electronic mode as per the following details:
   a. Details (Name & Address) of Account Holder: UNION CHRISTIAN COLLEGE, ALUVA, ERNAKULAM DISTRICT
   b. Account No: 2176873968
   c. Name & adress of Bank branch: CENTRAL BANK OF INDIA, ALWAYE (ALUVA),K.R TOWERS,MARKET ROAD,ERNAKULAM, KERALA-683101
   d. MICR Code: 682016004
   e. IFSC Code: CBIN0280964
   f. Type of Account: SB
4. This grant can be availed by aided colleges/courses only.
5. The grant is subject to the adjustment on the basis of utilisation certificate in the prescribed proforma submitted by the College.
6. The college shall maintain proper accounts of the expenditure out of the grants which shall be utilised only on approved items of expenditure.
7. The College may follow the General Financial Rules, 2005 and take urgent necessary action to amend their manuals of financial procedures to bring them in conformity with GFRs, 2005 and those don't have their own approved manuals on financial procedures may adopt the provisions of GFRs, 2005 and instructions/guidelines

8. The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to UGC as early as possible after the close of current financial year.
9. The assets acquired wholly or substantially out of University Grants Commission's Grant shall not be disposed or encumbered or utilised for the purposes other than those for which the grant was given without proper sanction of the UGC and should at any time the College ceased to function, such assets shall revert to the University Grants Commission.
10. A Register of Assets acquired wholly or substantially out of the grants shall be maintained by the College in the prescribed proforma.
11. The grantee institution shall ensure the Utilization of grants-in-aid for which it is being sanctioned/paid. In case of non-utilization/part utilization thereof, the simple interest @ 10% per annum as amended from time to time on unutilised amount from the date of drawal to the date of refund as per provisions contained in General Financial Rules of Govt. of India will be charged.
12. The College shall follow strictly the Government of India/UGC's guidelines regarding implementation of the reservation of policy [both vertical (for SC, ST and OBC) and horizontal (for person with disability etc.)] in teaching and non-teaching posts
13. The College shall fully implement the Official Language Policy of Union Govt. and comply with the Official Language Act, 1963, and Official Languages (Use for Official Purposes of the Union) Rules, 1976 etc.
14. The sanction is issued in exercise of the delegation of powers vide UGC office order No.130/2013[F.No.10-11/12(Admn. IA & B)] dated 28/5/2013.
15. The College shall take immediate action for its accreditation by National Assessment and Accreditation Council (NAAC)
16. The accounts of the College will be open for audit by the Comptroller and Auditor General of India in accordance with the provisions of General Financial Rules, 2005.
17. The annual accounts i.e. balance sheet, income and expenditure statement and statement of receipts and payments are to be prepared strictly in accordance with the Uniform Format of Accounting prescribed by the Government.
18. The funds to the extent are available under the Scheme.
19. This issues with the concurrence of IFD vide Diary No. 7783 and dated 04-03-2014 respectively.
20. An amount of Rs.0/- out of the grant of Rs. 225000/- sanctioned vide letter No.3-4(012)/2012(UG)(XII PLAN)/KLMG012/SWRO dated 30-03-2013 has been utilized by the College for the purpose for which it was sanctioned and noted in Grants-in-aid Register at Page No - 290.
21. The grant is sanctioned on the basis of the information/documents provided by the college. In case of any discrepancy in the above information and the college is found ineligible for the above grant at the time of expert committee meeting the college is liable to refund the sanctioned grant along with interest.
22. **The college shall ensure involvement of Technical advice on and supervision of specifications and construction standards.**
23. **College should abide by the UGC Regulation on curbing the menace of ragging in the Higher Educational Institution 2009, and shall take action in accordance with these regulations against those found guilty of ragging and/or abetting ragging actively or passively or being part of an conspiracy to promote ragging.**

Yours faithfully

(Dr.N. Gopukumar)
Deputy Secretary

Copy to

1. The Principal
   UNION CHRISTIAN COLLEGE
   ALUVA
   ERNAKULAM DISTRICT - 683 102
   (He/She is requested to abide by these instructions/guidelines of sanction order.)
2. Officer-of Director General of Audit, Central Revenues, AGCR Building, I.P. Estate, New Delhi
3. The Director
   Department of Collegiate Education
   Vikas Bhawan, Thiruvananthapuram - 33
4. The Dean/Director, College Development Council
   MAHATMA GANDHI UNIVERSITY
   PRIYADARSHINI HILLS (PO)
   KOTTAYAM - 686 560
5. Office copy

(Neethu S Thulaseedharan)
Education Officer

ज्ञान-विज्ञान विमुक्तये

नैरुत्य प्रादेशिक कार्यालय
UNIVERSITY GRANTS COMMISSION
SOUTH WESTERN REGIONAL OFFICE
P.K. Block, Palace Road, Gandhinagar
Bangalore-560 009.
Phone : (080) 2228 0380 Fax : (080) 2228 0381

F.No 3-4(012)/2012(UG)(XII PLAN)/KLMG012/SWRO

The Principal
UNION CHRISTIAN COLLEGE
ALUVA
ERNAKULAM DISTRICT - 683 102

21-Mar-14

Sub: XII Plan allocation under General Development Assistance to Colleges –

Sir/Madam,

I am directed to convey the approval of the UGC to UNION CHRISTIAN COLLEGE, ALUVA, ERNAKULAM DISTRICT, the XIIth plan allocation under the "General Development Assistance" (GDA) for the development of undergraduate and postgraduate education. The UGC in the XIIth plan has decided to provide grants under General Developmental Assistance as 'Block Grant'. The college will have the flexibility to incur expenditure as per the needs of the college. Accordingly, grant allocated under GDA to the college is under two object heads viz. Grant-in-aid General(31) and Capital Assets (35).

Capital Assets (35) 80% of total allocation Rs.	Grant-in-aid General (31) 20% of total allocation Rs.	Total Rs.
6181024/-	1545256/-	7726280/-

1. The aforementioned allocation is for the development of undergraduate and postgraduate education.The amount released may be utilised within the allocated amount under Grant-in-aid General (31) and Capital Assets (35) as conveyed vide letter no. 3-4(012)/2012(UG)(XII PLAN)/KLMG012/SWRO dated 21-Mar-2014. Re-appropriation of funds between Grant-in-aid General (31) and Capital (35) is not permissible.
2. The heads underwhich college can incur expenditure include Books and Journals, Equipment, Instrumentation facilities, Construction/Extension/Renovation of building, improvement of existing premises, competence building initiatives in colleges, Educational innovation, Field Work/Study Tours, Extension Activities, ICT in education, Common room and toilet for women, Day Care Centre, Human Rights and Duties Education and, Career and Counseling Cell.
3. The college has to constitute a Planning Board with Principal as Chairman and Heads of departments. IQAC Coordinator, Librarian Bursor/Senior person from the Accounts department, as members.
4. The Planning Board will finalise allocation to Undergraduate and Postgraduate departments after identifying the heads and deciding on priorities of departments.
5. The eligibility criteria for Undergraduate and Postgraduate departments to get assistance under the scheme is given in the XIIth plan guidelines for General Development Assistance Grant to Colleges. The Planning Board may refer to the guidelines before finalizing allocation to Undergraduate and Postgraduate departments.
6. Expenditure on construction/extension/renovation of building should not exceed 50% of the total grant under GDA. The college must inform the requirement of funds or otherwise for construction/extension/ renovation of building to UGC-SWRO, as per the procedure given in the XIIth Plan guidelines for the scheme of Development Assistance to colleges for the construction of buildings during the XIIth Plan to enable release of first installment grant for construction/extension/renovation purpose.
7. After finalizing the budget allocation for Undergraduate and Postgraduate education, the Planning Board should submit the details as per Annexure-I and Annexure-II in the XIIth Plan guidelines alongwith building committee resolutions, in case funds required for Construction/Extension/Renovation, to the UGC, SWRO, Bangalore, on or before 31st June, 2014.

Yours faithfully