



UNION CHRISTIAN COLLEGE ALUVA-2



Criterion 1

1.2.1 Academic Flexibility

SSR 5th CYCLE 2023





VALUE ADDED COURSES AND ADD ON PROGRAMMES

Different value added courses are offered by Union Christian College to enhance the learning experience of students. The college also conducts UGC aided add on courses which are affiliated to Mahatma Gandhi University,

Year	Number of add on /value added programmes
2021-22	42

2021

- *** Types of Courses ***
- Swayam, NPTEL, Coursera courses
- Courses offered by College
- Courses offered by Departments
- Courses offered by University



VALUE ADDED / ADD ON / NPTEL / COURSE ERA COURSES 2021- 2022			
S1 No	Name of Course	Offered by	Number of Students
1	HUMAN VALUES AND PROFESSIONAL ETHICS	College	1946
2	APPLIED DATA SCIENCE POWERED BY IBM (ADD ON COURSE)	Department	117
3	DATA ANALYTICS(ADD ON COURSE)	Department	57
4	MICROSOFT OFFICE MS EXCEL (ADD ON COURSE)	Department	57
5	CERTIFICATION IN FINANCIAL SERVICES(HEDGE EQUITIES)	Department	57
6	NPTEL-PRINCIPLES OF HUMAN RESOURCE MANAGEMENT	Nptel/ Coursera	46
7	CARRIER ORIENTED ADD ON COURSE	Department	42
8	CLOUD COMPUTING	Department	31
9	INDOOR GARDENING AND POT MAKING	Department	31
10	GENOME EDITING TOOLS IN MEDICINE & BIOTECHNOLOGY	Department	23
11	NPTEL-PRINCIPLES OF MANAGEMENT	Nptel/ Coursera	23
12	RESEARCH METHODOLOGY AND CAREER SKILLS FOR PHYSICS STUDENTS	Department	22



Sl No	Name of Course	Offered by	Number of Students
13	PRINCIPLES OF MANAGEMENT - ONLINE	Nptel/ Coursera	16
14	ELECTRIC VEHICLE-PART 1	Nptel/ Coursera	9
15	SOFTWARE TESTING	Nptel/ Coursera	8
16	DATABASE MANAGEMENT SYSTEM	Nptel/ Coursera	6
17	ANALYTICAL CHEMISTRY	Nptel/ Coursera	5
18	ANALYTICAL CHEMISTRY - ONLINE	Nptel/ Coursera	5
19	HUMAN MOLECULAR GENETICS(NPTEL)	Nptel/ Coursera	4
20	THE JOY OF COMPUTING USING PYTHON(NPTEL)	Nptel/ Coursera	4
21	DEMYSTIFYING NETWORKING	Nptel/ Coursera	3
22	DATA ANALYSIS FOR BIOLOGISTS	Nptel/ Coursera	3
23	INTRODUCTION TO INTERNET OF THINGS	Nptel/ Coursera	2
24	CLOUD COMPUTING AND DISTRIBUTED SYSTEM	Nptel/ Coursera	2
25	INTRODUCTORY ORGANIC CHEMISTRY II	Nptel/ Coursera	2
26	STRUCTURAL BIOLOGY	Nptel/ Coursera	2
Sl No	Name of Course	Offered by	Number of Students



27	STRUCTURAL BIOLOGY	Nptel/ Coursera	1
28	DATA ANALYTICS WITH PYTHON	Nptel/ Coursera	1
29	PYTHON FOR DATA SCIENCE	Nptel/ Coursera	1
30	ONE-WEEK STTP ON RECENT TRENDS IN RESEARCH ARTICLE WRITING	Nptel/ Coursera	1
31	BIG DATA COMPUTING - ONLINE	Nptel/ Coursera	1
32	DESCRIPTIVE STATISTICS WITH R SOFTWARE - ONLINE	Nptel/ Coursera	1
33	INTRODUCTION TO OPERATING SYSTEM	Nptel/ Coursera	1
34	THE POPULAR GOTHIC NOVEL - ONLINE	Nptel/ Coursera	1
35	SHORT FICTION IN INDIAN LITERATURE - ONLINE	Nptel/ Coursera	1
36	BASIC COURSE IN BIOMEDICAL RESEARCH - ONLINE	Nptel/ Coursera	1
37	INTRODUCTORY ORGANIC CHEMISTRY II - ONLINE	Nptel/ Coursera	1
38	CLOUD COMPUTING & DISTRIBUTED SYSTEM	Nptel/ Coursera	1
39	ENHANCING SOFT SKILLS AND PERSONALITY	Nptel/ Coursera	1
40	OPERATIONS MANAGEMENT	Nptel/ Coursera	1
Sl No	Name of Course	Offered by	Number of Students
41	HUMAN MOLECULAR GENETICS	Nptel/ Coursera	1



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42	INTRODUCTION TO PROGRAMMING IN C	Nptel/ Coursera	1
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COURSE 1: APPLIED DATA SCIENCE POWERED BY IBM (ADD ON COURSE)



UNION CHRISTIAN COLLEGE, ALUVA School of Computer Applications

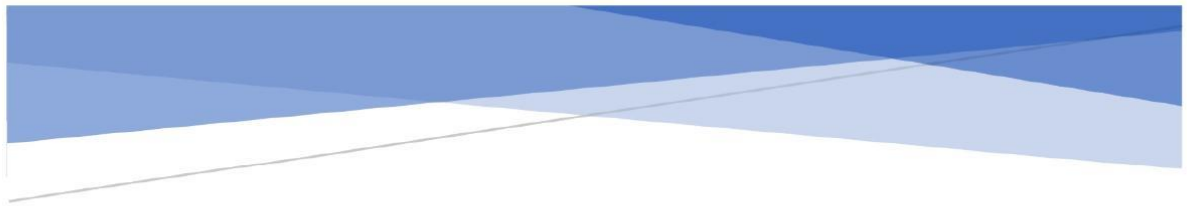
01/12/2021

Notice

Commencing on 06/12/2021, the School of Computer Applications has launched a collaborative externship program with IBM, specifically centered around Applied Data Science. This program will be conducted online, allowing students to engage in practical training and gain valuable real-world experience within the field. Participation in this add-on course has been made mandatory for all students admitted in 2020, ensuring their active involvement in the externship program.



Dargi PB
HOD 01/12/2021



EXTERNSHIP PROGRAM

Contract Agreement

SmartBridge Educational Services Pvt. Ltd.
info@thesmartbridge.com



CONTRACT AGREEMENT

THIS AGREEMENT HAS BEEN EXECUTED ON THE 26th DAY OF November 2021
BETWEEN

M/s. Union Christian College, having its registered address at Aluva - 683102, Kerala, India. hereinafter referred to as “**College**”.

AND

M/s. SmartBridge Educational Services Pvt. Ltd, having its corporate office at Plot No. 132, 2nd Floor, Above DCB Bank, HMT Nagar, Nacharam, Hyderabad, Telangana – 500076 hereinafter referred to as “**Company**”.

NOW, THEREFORE, for and in consideration of the mutual understanding i.e. Proposal/s, benefits and covenant contained herein and for other good and valuable considerations sufficiency's of which are hereby acknowledged among all the directors, intending to be legally bound, hereby agree as follows:

1. SCOPE OF WORK:

Both the parties agreed to work collaboratively & execute Externship program for the students to build practical skills through Hands-on Projects, refer **Annexure-1** for the complete details of the externship program.



2. ROLES & RESPONSIBILITIES:

2.1 COMPANY'S ROLE & RESPONSIBILITIES:

- Enrolling the students to the platform
- Provide online training to the students
- Assigning the mentors to the students
- Enrolling students to IBM Academic Initiative
- Reviewing the project deliverables of students
- Reviewing the project documentation
- Approve the projects.
- E-Certificate generation & distribution
- Generating interim & final reports of the program


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2.2 COLLEGE'S ROLE & RESPONSIBILITIES


- Assign a SPOC for the program
- Enroll the students to the program
- Confirm the training calendar
- Coordination with SmartBridge team
- Coordination with students for training program
- Monitor the progress at each stage
- Generate feedback reports from students
- Coordinate with accounts for payments

3. COMMERCIALS & PAYMENT TERMS:

- COLLEGE is liable to pay COMPANY **INR 4200/-** (Four thousand two hundred Indian rupees only) for each student taking part in the Program, which is inclusive of all applicable taxes.
- Above pricing is provided considering 110 or above nos. of confirmed Participants. The pricing may vary if the number of registrations are less than agreed.
- 30% of overall Invoice amount will be settled before the start date of program.
- 40% will be settled immediately after completion of training sessions (3 Weeks)
- 30% Balance amount will be cleared immediately after project development.
- Payment can be done via NEFT /RTGS based on the Invoice generated

4. GENERAL TERMS & CONDITIONS:

- Students with successful project submissions only will receive the certificates.
- Entire program will be organized remotely via Zoom Meetings.
- Students must complete the e-learning courses assigned to them.
- Students must register in prior for the technical bootcamps as per the schedule.
- Students must complete the projects assigned to them without fail.
- Only e-certificates will be provided.
- The payments are non-refundable


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5. TERMS OF AGREEMENT:

This agreement will be reviewed, and may be modified or amended, through the mutual agreement of the signatory parties, as may be necessary to clarify and formalize roles, responsibilities, timelines, and assurances regarding the scope of work.


The agreement can be dissolved at any time after 26th February, 2022 from the date of entering in to this agreement by mutual consent of the parties, in which event the parties shall proceed with reasonable promptness to settle the accounts of the partnership as per the outlined guide lines.

IN WITNESS WHEREOF through their authorised representatives executed these presents and affixed Common Seals of their companies, on the day, month and year first mentioned above.

<p>For <u>Union Christian College</u></p>   <p>Name: Dr. Alex A V Designation: Director, MCA Department</p>	<p>For <u>SmartBridge Educational Services Pvt. Ltd</u></p>   <p>Name: Jai Prakash Netha Designation: Program Manager</p>
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Union Christian College




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Annexure – I (Externship Program)

1. Introduction:

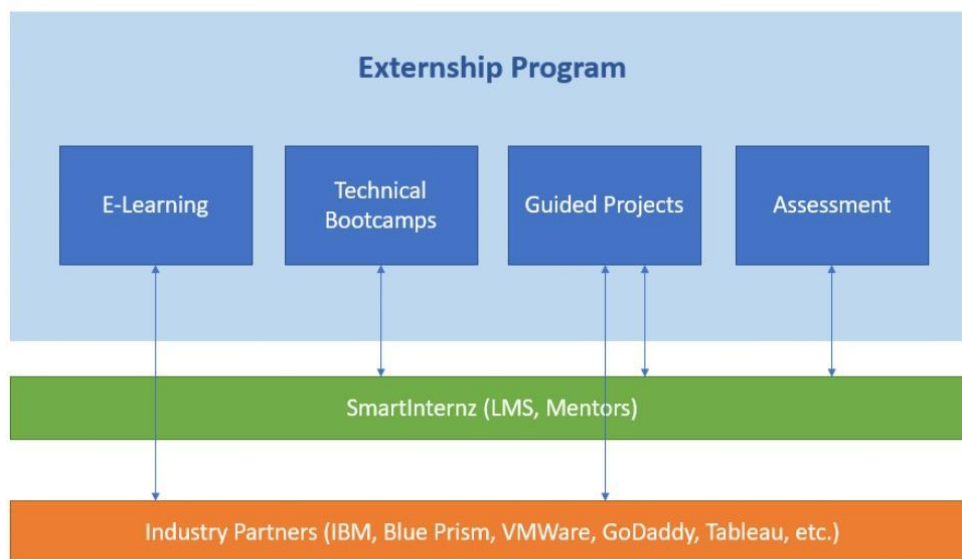
Externship is an experiential learning opportunity, similar to internships but generally shorter, provided by partnerships between educational institutions and employers to give students short practical experiences in their field of study.

Externships provide the unique opportunity for students to demonstrate what they've been learning in a real-world work environment, as well as a chance for the student to determine that the field they are interested in is a good fit.

Externships usually occur during the academic year, as a part of a student's curriculum, and provide an experiential learning environment that offers real-world insight to theoretical topics being learned about in college. Externships usually come about due to existing relationships between colleges and organizations willing to offer training.

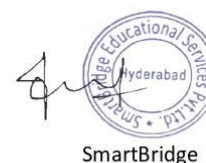
2. Program Structure:

SmartBridge has partnered with corporates to bring this unique opportunity for the students. The program includes the learning resources, guided projects, and mentoring support.



The Externship program is an industry partnered program with learning, mentoring and hands-on experience with projects approved by companies.

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3. Externship – Applied Data Science (in partnership with IBM)

3.1 Program Overview:

- 1-Months Program
- 40 Hrs. of online instructor-led training (daily 3 Hrs. for 3 Weeks)
- Access to online courses
- DevOps, Agile & Design Thinking mini courses from IBM
- Guided Project approved by IBM
- Mentor support
- Project completion certificate from IBM

3.2 Course Outline:

Introduction to Machine Learning

- Overview of Foundation Training
- What is Machine Learning
- Use cases of Machine Learning
- Types of Data
- Role of Machine Learning Engineer
- Different types of Machine Learning

Environment Setup of anaconda Introduction to python programming

- Python Data Structures
- Python Programming Fundamentals
- Conditions and Branching
- Loops
- Functions
- Python Packages
- Overview of OOP Terminology

Python for Data science

- Working with NUMPY
- Working with Pandas
- Introduction to Data Visualization
- Introduction to Matplotlib and Seaborn
- Basic Plotting with Matplotlib and Seaborn
- Working with Scikit-Learn

Data Wrangling Techniques

- Introduction to Data preprocessing
- Importing the Dataset
- Handling Missing data
- Working with categorical Data
- Splitting the data in to Train and Test set
- Feature Scaling

Aluvaki

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Introduction to Supervised Machine Learning

Introduction to Regression Algorithms

- Linear Regression
- Multiple Linear Regression
- Polynomial Regression
- Decision Tree

Introduction to Classification algorithms

- Logistic Regression
- K-Nearest Neighboring
- Support Vector Machine
- Naive-Bayes
- Decision Tree Classification
- Random Forest Classification

Model Evaluation for classification and regression problems

Unsupervised Learning

- K-Means Clustering

Introduction to different modes of Deployments

- Working with the Flask framework
- Building an application with Flask Framework
- Integrating Machine learning model with Web Application
- Introduction to IBM Python Flask APP
- Deploying Python Flask application on IBM Python

Introduction to IBM Cloud Services

- Introduction to IBM Cloud
- Introduction to Watson Studio
- Building Machine learning model in Watson Studio
- Deploying Machine Learning Models as web services

Introduction to Auto AI

- Building a Machine Learning Model Using Auto AI
- Introduction to IBM Node-red
- Integrating Machine Learning model to IBM Node-red
- Building Web Application

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3.3 Sample Certificate of Completion:



Externship Certificate



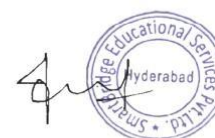
Project Completion Certificate

3.4 Pre-Requisites:

The student must fulfil the following requirements to join the program.

- This program has been offered exclusively to the students
- A valid document must be submitted to authenticate the students status
- Students shall have knowledge on fundamentals of python programming.
- Students must have a laptop / computer with min. 4GB RAM & i3 processor
- The institution shall accommodate the training programs in the academic schedule.
- The institution shall assign a faculty in charge for coordination.

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Master of Computer Applications

Student Details

University Roll No	Students Name
203242210158	Meera K M
203242210159	Abhin K M
203242210160	Abhirami A B
203242210161	Ahila Paul
203242210162	Aiswaryalakshmi C S
203242210163	Ajmal Johnson
203242210164	Akhil Dev P B
203242210165	Akshara Raju
203242210166	Akshay A
203242210167	Aleena Sojan
203242210168	Aleena V T
203242210169	Alfiya K Ali
203242210170	Alna Varghese



University Roll No	Students Name
203242210171	Alvy Rose Antony
203242210172	Amal Varghese Prakash
203242210173	Amrith Raj P H
203242210174	Amrutha AR
203242210175	Anagha G
203242210176	Ananthu A S
203242210177	Aneena Jose
203242210178	Aneena Joshy
203242210179	Aneesha Francis
203242210180	Aneeta K C
203242210181	Angel Thobias
203242210182	Anikmon Davis
203242210183	Anilamol Shibu
203242210184	Anjana Unnikrishnan
203242210185	Anjitha K A
203242210186	Anju Alias
203242210187	Anna Alex



University Roll No	Students Name
203242210188	Anna Joseph
203242210189	Anugrah N P
203242210190	Anusha Sunildath
203242210191	Ashmina K L
203242210192	Ashna Anto
203242210193	Aswathy K V
203242210194	Aswin V S
203242210195	Athira PJ
203242210196	Athira A B
203242210198	Bony Dominic
203242210199	Devika K. S
203242210202	Eldhose Kurian
203242210203	Elsa Saji
203242210204	Elvin Symeanthy
203242210205	Faheema P.A
203242210206	Flevin Kishore
203242210207	Fousiya P.J



University Roll No	Students Name
203242210209	Gayathri
203242210210	Githu varghese
203242210211	Greeshma T Nath
203242210212	Jainy Merry Jaison
203242210213	Jerry John
203242210214	Jibiya Jacob
203242210215	Jijimol Johny
203242210216	Jismon Roy
203242210217	Jithuraj Raveendran
203242210218	Jitty Thomas
203242210219	Jofiya Johnson
203242210220	Joseph Bejoy P J
203242210221	Joseph P.S
203242210223	Jubna Beegum O S
203242210225	Kannan A G
203242210226	Latteesha Poullose
203242210227	Lisha M J



University Roll No	Students Name
203242210228	M S Neeshma
203242210229	Maheswary Kumari Balayar
203242210231	Manuprasad M N
203242210233	Milka Maria George
203242210234	Nasmiya Nazar P
203242210235	Navaneeth N K
203242210236	Neena Raj
203242210237	Neena Shaji
203242210238	Negil Babu
203242210239	Nibas Nazeem
203242210240	Nikhiya Santhosh
203242210241	Nimisha A N
203242210242	Nimmi E V
203242210243	Nourin T Navas
203242210244	P Sujith Kumar
203242210245	Preethi Jacob V
203242210246	Rageeth C.R



University Roll No	Students Name
203242210247	Rajalakshmi Gopinathan
203242210248	Renjitha R
203242210249	Riya Kunjachan
203242210250	Robin Babu
203242210252	Sameena M N
203242210253	Sandra Peter
203242210254	Shafiya Shahi
203242210256	Sivapriya P V
203242210257	Sneha James
203242210259	Sona Ashok
203242210260	Sona P S
203242210261	Sreekanth Sasi
203242210262	Sreelakshmi AS
203242210263	Sreelakshmi Gopinathan
203242210264	Sreelakshmi K A
203242210265	Sreelakshmi M P
203242210267	Tharun T



University Roll No	Students Name
203242210268	Thattaruparambil Aparna Venu
203242210269	Unnimaya Unnikrishnan
203242210270	Vaisakh T G
203242210271	Vijeesh SM
203242210272	Vimal V P
203242210273	Vishnu C S
203242210274	Vishnupriya E V


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Students Attendance

Classes were conducted online as mentioned in the attached
MOU.Attendance Provided by Smart Bridge Educational Services



Union Christian College - Aluva , Kerala						
Applied Data Science						
Date: 6th December 2021 -19th February Timings: 7:30 PM - 9:30 PM IST						
		Trainer : Abhishek .G.D , Mentor : Srikanth Kummari				
SI NO	CLASS NAME	Name	Email Id	Total classes	Attended	Absent
1	MCA 20/A Batch	ABHIN K M	abhinkm000@gmail.com			
2	MCA 20/A Batch	AKSHARA RAJU	akshararaju31@gmail.com			
3	MCA 20/A Batch	ALEENA SOJAN	aleena.sojan722@gmail.com	34	33	1
4	MCA 20/A Batch	ALVY ROSE ANTONY	alanantony192@gmail.com	34	31	3
5	MCA 20/A Batch	AMAL VARGHESE PRAKASH	amalprakash2025@gmail.com	34	32	2
6	MCA 20/A Batch	AMRITH RAJ P H	amrithraj97@gmail.com	34	10	24
7	MCA 20/A Batch	AMRUTHA AR	amruthaar8113@gmail.com	34	27	7
8	MCA 20/A Batch	ANGEL THOBIAS	angelthobias7@gmail.com	34	32	2
9	MCA 20/A Batch	ANILAMOL SHIBU	anilamolshibu1999@gmail.com	34	34	0
10	MCA 20/A Batch	ANNA ALEX	annaalex4566@gmail.com	34	34	0
11	MCA 20/A Batch	ANNA JOSEPH	annajosephv99@gmail.com	34	31	3
12	MCA 20/A Batch	ASWIN V S	aswinsunil8089@gmail.com	34	34	0
13	MCA 20/A Batch	ATHIRA A B	athiraab59@gmail.com	34	34	0
14	MCA 20/A Batch	ATHIRA PJ	athirapj852@gmail.com	34	30	4
15	MCA 20/A Batch	BONY DOMINIC	bonydominic007@gmail.com	34	34	0
16	MCA 20/A Batch	ELSA SAJI	elsasaji84@gmail.com	34	34	0
17	MCA 20/A Batch	FAHEEMA P.A	fahimamariyath@gmail.com	34	29	5
18	MCA 20/A Batch	JAINY MERRY JAISON	jainymj1910@yahoo.co.in	34	33	1
19	MCA 20/A Batch	JERRY JOHN	jandj808946@gmail.com	34	33	1
20	MCA 20/A Batch	JIBIYA JACOB	jibiyajacob789@gmail.com	34	29	5
21	MCA 20/A Batch	JIJIMOL JOHNY	jijimoljohny123@gmail.com	34	30	4
22	MCA 20/A Batch	JISMON ROY	jismonroy6@gmail.com	34	34	0
23	MCA 20/A Batch	KANNAN A G	kannanag4@gmail.com	34	34	0



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24	MCA 20/A Batch	LISHA M J	lishamj303@gmail.com	34	34	0
25	MCA 20/A Batch	MAHESWARY KUMARI BALAYAR	maheswarykumari@gmail.com	34	33	1
26	MCA 20/A Batch	NASMIYA NAZAR P	nazarnasmiya1999@gmail.com	34	32	2
27	MCA 20/A Batch	NEENA RAJ	neenaraj98@gmail.com	34	33	1
28	MCA 20/A Batch	NIMMI E V	nimmiev222@gmail.com	34	31	3
29	MCA 20/A Batch	NOURIN T NAVAS	nourinhaseena@gmail.com	34	34	0
30	MCA 20/A Batch	P SUJITH KUMAR	sujithkumar9496@gmail.com	34	34	0
31	MCA 20/A Batch	RAGEETH C.R	rageethcr27@gmail.com	34	25	9
32	MCA 20/A Batch	RIYA KUNJACHAN	annariyactc@gmail.com	34	29	5
33	MCA 20/A Batch	SALMA C A	salmaca24@gmail.com	34	34	0
34	MCA 20/A Batch	SNEHA SUNIL P	snehasunilp378@gmail.com	34	32	2
35	MCA 20/A Batch	SONA ASHOK	sonalakshmi2000@gmail.com	34	33	1
36	MCA 20/A Batch	SREELAKSHMI M P	sreelakshmisudha2000@gmail.com	34	33	1
37	MCA 20/A Batch	VIJESH SM	smvijesh57@gmail.com	34	34	0
38	MCA 20/A Batch	VIMAL VP	vimal2571999@gmail.com	34	34	0
39	MCA 20/A Batch	VISHNU C S	vishnuchirayath@gmail.com	34	21	13
40	MCA 20/B Batch	AHILA PAUL	ahilapaul98@gmail.com	34	31	3
41	MCA 20/B Batch	AJMAL JOHNSON	angelajmal20@gmail.com	34	30	4
42	MCA 20/B Batch	AKSHAY A	akshayashokskp@gmail.com	34	34	0
43	MCA 20/B Batch	ALEENA V T	aleenavt1998@gmail.com	34	29	5
44	MCA 20/B Batch	ANANTHU A S	ananthushaji1100@gmail.com	34	33	1
45	MCA 20/B Batch	ANEENA JOSE	aneenajose199928@gmail.com	34	34	0
46	MCA 20/B Batch	ANEESHA FRANCIS	aneesha6499francis@gmail.com	34	34	0
47	MCA 20/B Batch	ANJANA UNNIKRISHNAN	anjanaunni443@gmail.com	34	33	1
48	MCA 20/B Batch	ANJU ALIAS	anjualias1799@gmail.com	34	32	2
49	MCA 20/B Batch	ANUSHA SUNILDATH	anushachinju2486@gmail.com	34	34	0
50	MCA 20/B Batch	ASHNA ANTO	ashnaanto2000@gmail.com	34	34	0



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51	MCA 20/B Batch	BHAGYALAKSHMI G NAIR	bhagyalachu1212@gmail.com	34	34	0
52	MCA 20/B Batch	DHILSANA K J	dhilsanakj@gmail.com	34	34	0
53	MCA 20/B Batch	ELDHOSE KURIAN	eldhosekurian9809@gmail.com	34	34	0
54	MCA 20/B Batch	ELVIN SYMEANTHY	elvinsymeanthy@gmail.com	34	29	5
55	MCA 20/B Batch	FOUSIYA P.J	fousiyapj07@gmail.com	34	32	2
56	MCA 20/B Batch	GAUTHAM V	gauthamv50@gmail.com	34	24	10
57	MCA 20/B Batch	GREESHMA T NATH	greeshmatnath99@gmail.com	34	33	1
58	MCA 20/B Batch	JITHURAJ RAVEENDRAN	jithuresh2029@gmail.com	34	31	3
59	MCA 20/B Batch	JITTY THOMAS	jittythomas774@gmail.com	34	32	2
60	MCA 20/B Batch	JOSEPH P.S	josephshajan111@gmail.com	34	34	0
61	MCA 20/B Batch	JUBNA BEEGUM O S	jubnanikhil143@gmail.com	34	33	1
62	MCA 20/B Batch	JYOTHIS RAJ D	jyothisraj7557@gmail.com	34	33	1
63	MCA 20/B Batch	MAHILAKSHMI I M	Mahilakshmi1999@gmail.com	34	31	3
64	MCA 20/B Batch	MANUPRASAD M N	mnmanuprasad03@gmail.com	34	33	1
65	MCA 20/B Batch	MEERA K M	meeramythreyan@gmail.com	34	33	1
66	MCA 20/B Batch	NEENA SHAJI	neenahshaji@gmail.com	34	22	12
67	MCA 20/B Batch	NEGIL BABU	negilbabu@gmail.com	34	34	0
68	MCA 20/B Batch	NIKHIYA SANTHOSH	rosfin.nikhiya.2000@gmail.com	34	34	0
69	MCA 20/B Batch	PREETHI JACOB V	preethyj12@gmail.com	34	34	0
70	MCA 20/B Batch	RENJITHA R	renjitha1792@gmail.com	34	33	1
71	MCA 20/B Batch	ROBIN BABU	robinbabu500@gmail.com	34	33	1
72	MCA 20/B Batch	SAMEENA M N	sameenasemu1@gmail.com	34	34	0
73	MCA 20/B Batch	SHAFIYA SHAHI	shafiya1234shahi@gmail.com	34	30	4
74	MCA 20/B Batch	SONA P S	sonazee12@gmail.com	34	22	12
75	MCA 20/B Batch	SREELAKSHMI AS	assreelakshmi99@gmail.com	34	30	4
76	MCA 20/B Batch	SRUTHI PS	sruthisali008@gmail.com	34	34	0
77	MCA 20/B Batch	THARUN T	tharunt02@gmail.com	34	33	1



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78	MCA 20/B Batch	UNNIMAYA UNNIKRISHNAN	unnimaya784@gmail.com	34	33	1
79	MCA 20/C Batch	ABHIRAMI A B	abhiramibalachandran824@gmail.com	34	31	3
80	MCA 20/C Batch	AISWARYALAKSHMI C. S	aiswaryasureshkumar44@gmail.com	34	34	0
81	MCA 20/C Batch	AKHIL DEV P. B	akhildev1089@gmail.com	34	34	0
82	MCA 20/C Batch	ALFIYA K ALI	afaalfiya@gmail.com	34	34	0
83	MCA 20/C Batch	ALNA VARGHESE	alnavarghese24@gmail.com	34	25	9
84	MCA 20/C Batch	ANAGHA. G	anaghagirish51@gmail.com	34	32	2
85	MCA 20/C Batch	ANEENA JOSH Y	aneenajo1699@gmail.com	34	34	0
86	MCA 20/C Batch	ANEETA K. C	aneetacyril@gmail.com	34	34	0
87	MCA 20/C Batch	ANIKMON DAVIS	anikdavis18@gmail.com	34	28	6
88	MCA 20/C Batch	ANJITHA K. A	anjithaka54@gmail.com	34	30	4
89	MCA 20/C Batch	ANUGRAH N. P	anugrahnp@gmail.com	34	30	4
90	MCA 20/C Batch	ASHMINA K. L	ashminakl1002@gmail.com	34	31	3
91	MCA 20/C Batch	ASWATHY K. V	aswathyaswathy320@gmail.com	34	29	5
92	MCA 20/C Batch	DEVIKA K. S	ammudevika1999@gmail.com	34	30	4
93	MCA 20/C Batch	DIYA N. A	diyanilkumar@gmail.com	34	33	1
94	MCA 20/C Batch	FLEVIN KISHORE	Flevinkishore@gmail.com	34	30	4
95	MCA 20/C Batch	GAYATHRI	gayathrisivaprakash26@gmail.com	34	29	5
96	MCA 20/C Batch	GITHU VARGHESE	githuvarghesego4@gmail.com	34	34	0
97	MCA 20/C Batch	JOFIYA JOHNSON	jofiyajohnson@gmail.com	34	33	1
98	MCA 20/C Batch	JOSEPH BEJOY P. J	jbbejoy@gmail.com	34	32	2
99	MCA 20/C Batch	JOYAL JIJO	joyaljijo11@gmail.com	34	34	0
100	MCA 20/C Batch	LATTEESHA POULOSE	latteeshapoulose@gmail.com	34	33	1
101	MCA 20/C Batch	MEENAKSHY JEEVAN	meenakshyjeevan8@gmail.com	34	30	4
102	MCA 20/C Batch	MILKA MARIA GEORGE	milkamariageorge@gmail.com	34	31	3
103	MCA 20/C Batch	NAVANEETH N K	navaneethnk97@gmail.com	34	26	8
104	MCA 20/C Batch	M S NEESHMA	neeshma1999@gmail.com	34	34	0



105	MCA 20/C Batch	NIBAS NAZEEM	nibasnazeem@gmail.com	34	30	4
106	MCA 20/C Batch	NIMISHA A. N	nimishaarakkal@gmail.com	34	34	0
107	MCA 20/C Batch	RAJALAKSHMI GOPINATHAN	rajilax1999@gmail.com	34	33	1
108	MCA 20/C Batch	SANDRA PETER	santoachu@gmail.com	34	33	1
109	MCA 20/C Batch	SIVAJITH K S	sivjithsuresh005@gmail.com	34	32	2
110	MCA 20/C Batch	SIVAPRIYA P V	sivapriyapvijayan@gmail.com	34	31	3
111	MCA 20/C Batch	SNEHA JAMES	jamestomsy007@gmail.com	34	19	15
112	MCA 20/C Batch	SREEKANTH SASI	sreear200@gmail.com	34	32	2
113	MCA 20/C Batch	SREELAKSHMI GOPINATHAN	sreekz1999@gmail.com	34	33	1
114	MCA 20/C Batch	SREELAKSHMI K.A	sreelakshmika15@gmail.com	34	28	6
115	MCA 20/C Batch	THATTARUPARAMBIL APARNA VENU	thattaruparambil7@gmail.com	34	32	2
116	MCA 20/C Batch	VAISAKH T. G	vaisakh.t.g777@gmail.com	34	33	1
117	MCA 20/C Batch	VISHNUPRIYA E V	vishnupriyavasudevan129@gmail.com	34	29	5

COURSE 2: RESEARCH METHODOLOGY & CAREER SKILLS FOR PHYSICS STUDENTS

Value Added Course

PHYRMCS 01



Research methodology & Career Skills for Physics Students

Department of Physics

Name of faculty	No of hours
Dr Shinoj V K	10
Dr Pramod Dominic	10
Dr Reshmi R	10



DEPARTMENT OF PHYSICS UNION CHRISTIAN COLLEGE, ALUVA

VALUE ADDED COURSE 2022-23

RESEARCH METHODOLOGY & CAREER SKILLS

FOR PHYSICS
UNDERGRADUATES

COURSE HIGHLIGHTS

- RESEARCH METHODOLOGY
- PRESENTATION SKILLS
- SCIENTIFIC TYPESETTING
- CAREER ASSESSMENT
- PROFESSIONAL NETWORKING
- COLLABORATION TOOLS
- FINDING OPPORTUNITIES

COURSE COORDINATOR

DR. SHINOJ V. K., 9744187825

IQACPHYUCC@GMAIL.COM



PHYRMCS 01

Value Added Course – Research methodology & Career Skills for Physics students

(BSc Physics 2021-24 Batch)

Course Objectives:

- a) Familiarize participants with basic of research and the research process. b) Enable the participants in conducting research work and formulating final year project report.
- c) To provide educational training in research ethics.
- d) Refine the skill of using high-quality typesetting system, LaTeX for publication of research papers, theses and book chapters.
- e) Enable students to be a better professional through acquiring new skills and enhancing existing skills.

Contact Hours: 30 hrs

Course Syllabus:

Module I (5 hours):

Introduction to Research Methodology: Meaning of Research, Objectives of Research, Motivations in Research, Significance of Research, Types of Research, Research Design, Research methodology, Research Methods v/s Methodology, Research and Scientific Methods, Research Process, Criteria of Good Research, Ethics in research.

Module II (12 hours):

The Review of Literature, Meaning of Review of Literature, Need of Review of Literature, Objectives of literature review, Sources of Literature, How to start the Review, Effective search methods.

Approaches in Research, Identification of Research problem, Defining and delimiting Research problem, Research Questions and Hypothesis, characteristics of good Hypothesis, Design of experiment, Types of data, Data Collection, Data Analysis.

Structure of final year report, Research Ethics, Acknowledging sources, Plagiarism, Paraphrasing, Citing others work, presenting your findings, Interpreting results, concluding your report.

Module III (10 hours):

Introduction to Scientific typesetting – Latex

Installation of the software LaTeX, Understanding Latex compilation, Basic Syntax,



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Writing equations, Matrix, Tables and including figures

Page Layout – Titles, Abstract Chapters, Sections, References, Equation references,

Module IV

(3 hrs)

Basics of professional networking - Awareness on career assessment tools - Searching and finding resources and opportunities - Familiarization with collaborative tools for document preparation, presentation and data collection

Methods of Instruction and Assessment:

- Lectures and discussions
- Guest speakers (Webinars)
- Video resources, Reading materials.
- Assessment: Continual Assessments

Certification

The college provides a 'Course Completion Certificate' to every student who completes the course successfully.



Value Added Courses - Syllabus

COURSE PLAN (2021 - 2022)

Department	Physics
Name of Value added course	Research methodology & Career Skills for Physics Students
Participants	Both
Semester	UG 5 th Semester & PG 1 st Semester
Total Hours	30
Maximum intake	30

Course Outcomes

CO Number	Description	CO Evaluation methods
CO1	Familiarize participants with basic of research and the research process.	
CO2	Enable the participants in conducting research work and formulating final year project report.	
CO3	To provide educational training in research ethics.	
CO4	Refine the skill of using high-quality typesetting system, LaTeX for publication of research papers, theses and book chapters.	
CO5	Enable students to be a better professional through acquiring new skills and enhancing existing skills.	

Module 1	Hours : 5
Syllabus: Introduction to Research Methodology: Meaning of Research, Objectives of Research, Motivations in Research, Significance of Research, Types of Research, Research Design, Research	



methodology, Research Methods v/s Methodology, Research and Scientific Methods, Research Process, Criteria of Good Research, Ethics in research.

Slno	CO Number	Topic /Activity	No of hours	Instructional methods to be used
1	CO1	Introduction to Research Methodology	1	Lecture, Discussion
2	CO2	Objectives of Research, Motivations in Research, Significance of Research	1	Lecture, Discussion
3	CO3	Types of Research, Research Design, Research methodology, Research Methods v/s Methodology	1	Lecture, Discussion
4	CO4	Research and Scientific Methods, Research Process, Criteria of Good Research, Ethics in research.	2	Lecture, Discussion

Module 2

Hours : 12 hrs

Syllabus:

The Review of Literature, Meaning of Review of Literature, Need of Review of Literature, Objectives of literature review, Sources of Literature, How to start the Review, Effective search methods.

Approaches in Research, Identification of Research problem, Defining and delimiting Research problem, Research Questions and Hypothesis, characteristics of good Hypothesis, Design of experiment, Types of data, Data Collection, Data Analysis.

Structure of final year report, Acknowledging sources, Plagiarism, Paraphrasing, Citing others work, presenting your findings, Interpreting results, concluding your report.

Slno	CO Number	Topic /Activity	No of hours	Instructional methods to be used
1	CO5	The Review of Literature, Meaning of Review of Literature, Need of Review of Literature	2	Lecture, Discussion



2	CO6	Objectives of literature review, Sources of Literature, How to start the Review	2	Lecture, Discussion
3	CO7	Effective search methods, Approaches in Research	1	Lecture, Discussion
4	CO8	Identification of Research problem, Defining and delimiting Research problem	2	Lecture, Discussion
5	CO9	Research Hypothesis- Characteristics	1	Lecture, Discussion
6	CO10	Design of experiment, Data collection & Data analysis	1	Lecture, Discussion
7	CO11	Acknowledging sources, Plagiarism – Paraphrasing, Citing others work	1	Lecture, Discussion
8	CO12	Presenting your findings, Interpreting results, Concluding your report	2	Lecture, Discussion
Module 3			Hours : 10	
Syllabus:				
Introduction to Scientific typesetting – Latex				
Installation of the software LaTeX, Understanding Latex compilation, Basic Syntax, Writing equations, Matrix, Tables and including figures				
Page Layout – Titles, Abstract Chapters, Sections, References, Equation references, citation				
Applications to: Preparing Resume				
Slno	CO Number	Topic /Activity	No of hours	Instructional methods to be used
1	CO13	Installation of the software LaTeX, Understanding Latex compilation	2	Lecture, Discussion
2	CO14	Basic Syntax	1	Lecture, Discussion
	CO15	Writing equations, Matrix, Tables and including figures	3	Lecture, Discussion



	CO16	Page Layout – Titles, Abstract Chapters, Sections, References, Equation references, citation	3	Lecture, Discussion
	CO17	Applications to: Preparing Resume	1	Lecture, Discussion
Module 4			Hours : 3	
Syllabus:				
Basics of professional networking - Awareness on career assessment tools - Searching and finding resources and opportunities - Familiarization with collaborative tools for document preparation, presentation and data collection.				
Slno	CO Number	Topic /Activity	No of hours	Instructional methods to be used
1	CO18	Basics of professional networking	1	Guest speaker (Webinar)
2	CO19	Awareness on career assessment tools - Searching and finding resources and opportunities	1	Guest speaker (Webinar)
3	CO20	Familiarization with collaborative tools for document preparation, presentation and data collection.	1	Guest speaker (Webinar)



Research methodology list of students 21-22

Full Name:	Your class:	Register No.
Devika M	M.Sc. Ist sem	220011014450
Abhijith C B	B.Sc. Vth sem	200021037104
Kavya Unnikrishnan	M.Sc. Ist sem	220011014454
Aleena g thelakkattu	M.Sc. Ist sem	220011014448
Haritha Dharman	M.Sc. Ist sem	220011014453
Surya K G	M.Sc. Ist sem	220011014459
Fezin Puthanpurayil	B.Sc. Vth sem	200021037139
Athul K N	B.Sc. Vth sem	200021037109
Goutham krishnan	B.Sc. Vth sem	200021037111
Deteena chacko	B.Sc. Vth sem	200021037130
George c reji	B.Sc. Vth sem	200021037110
Rakesh Ramachandran	B.Sc. Vth sem	200021037140
Naseeh Yousuf	B.Sc. Vth sem	200021037138
Melwin T Joshy	B.Sc. Vth sem	200021037136
Liyana P M	M.Sc. Ist sem	220011014455
Ummu Sumayya TM	M.Sc. Ist sem	220011014460
A ANAGHA	B.Sc. Vth sem	200021037122
V.B.SIMI	M.Sc. Ist sem	220011014458
HARITHA DHARMAN	M.Sc. Ist sem	220011014453
Anjana N M	M.Sc. Ist sem	220011014449
FATHIMA JUMNA	M.Sc. Ist sem	220011014451
Gopika N R	M.Sc. Ist sem	220011014452

Topic: Research Methodology

SI No.	Admission Number	Name	10-12-21 Attendance	16-12-21	14-1-22
1	H0206	A Anagha	✓	✓	✓
2	G9780	Abhijith CB	✓	✓	✓
3	H0168	Athul K N	✓	a	✓
4	G9775	Detena Chacko	✓	✓	✓
5	G9918	George C Reji	✓	✓	✓
6	H0123	Goutam Krishnan P	✓	✓	✓
7	G9716	Melwin T Joshy	✓	a	✓
8	H0247	Naseeh Yousuf	✓	a	✓
9	H0233	Fezin Puthanpurayil	✓	✓	✓
10	H0019	Rakesh Ramachandran	✓	✓	✓
11	H1874	Devika M	✓	✓	✓
12	H1878	Liyana P M	a	✓	✓
13	H2149	Anjana N M	✓	✓	✓
14	H2133	Ummu Sumayya TM	✓	✓	✓
15	H1665	Kavya Unnikrishnan	✓	✓	✓
16	H1410	Mahima Manoj	✓	✓	✓
17	H2075	Haritha Dharman	✓	✓	✓
18	H2151	Surya K G	✓	✓	✓
19	H1478	Fathima Jumna	✓	✓	✓
20	H2016	Gopika N R	✓	✓	✓
21	H1890	Simi V B	✓	✓	✓
22	H1941	Aleena G Thelakkattu	✓	✓	✓
23	H1404	Aja K Raj	✓	✓	✓
24	H2148	Vyshnav Unnikrishnan	a	a	a



COURSE 3: INDOOR GARDENING AND POT MAKING

UNION CHRISTIAN COLLEGE DEPARTMENT OF BOTANY (2021-22)

NOTICE

The Department of Botany shall start value added course.

1. Indoor gardening and pot making

It shall be a 30 contact hours course including a series of lectures and hands on training sessions.

Students from the departments are requested to enrol themselves for the course and participate actively to make it a grand success.

Registration forms are available in the department.

Proposal

of

value added course

on

Indoor gardening and pot making

for

BSc and MSc Botany students

offered by

Department of Botany



Aim

Value added course is generally defined as the part of education that provides the specialized professional knowledge and skills, which attribute professional adequacy to the student and are the focus of every training program. Value added course can be seen as an activity or a set of activities designed in order to transmit theoretical knowledge and also professional skills that are required for certain types of jobs.

Objective

To give opportunities for professional growth, career improvement of practical knowledge and self-employment opportunities.



Course content

Module 1					Hours : 6hrs
Syllabus: Introduction Introduction to ornamental plants: classification of ornamental plants based on utilities: study on some common low maintenance indoor ornamentals; snake plant, Monstera; spider plant; Dragon tree; Inchplant; Philodendron; Dracaena; ferns; Jade plant; Dumb cane; ZZ plant, Red Aglaonema; Croton; Aralia; Air plants; Pothos; Sansevieria					
Sl. no	CO Number	Topic /Activity	No of hours	Instructional methods to be used	
1	CO1	Introduction to ornamental plants: classification of ornamental plants based on utilities:	3	Lecture	
2	CO1	study on some common low maintenance indoor ornamentals; snake plant, Monstera; spider plant; Dragon tree; Inchplant; Philodendron; Dracaena; ferns; Jade plant; Dumb cane; ZZ plant, Red Aglaonema; Croton; Aralia; Air plants; Pothos; Sansevieria	3	Lecture, Field visit	
Module 2					Hours : 12hrs
Syllabus: Indoor plant pot assembly Pot selection criteria based on purpose; pot varnishing steps and purposes; pot designing tools and techniques; pot painting techniques: paint types, patterns; Potting mixture: components, composition and preparation techniques; pot filling and planting					
Sl. no	CO Number	Topic /Activity	No of hours	Instructional methods to be used	
1	CO2	Pot selection criteria based on purpose; pot varnishing steps and purposes; pot designing tools and techniques;	6	Lecture, Demonstration	
2	CO2, CO3, CO4	pot painting techniques: paint types, patterns; Potting mixture: components, composition and	6	Lecture, Demonstration	



		preparation techniques; pot filling and planting		
Module 3			Hours : 2 hrs	
Syllabus:				
Module 3: Importance of ornamentals				
Home decor; Table decor; office decor: Commercial value of ornamentals and marketing techniques: Indoor ornamentals caring principles and methods.				
Sl. no	CO Number	Topic /Activity	No of hours	Instructional methods to be used
1	CO5	Home decor; Table decor; office decor:	1	Lecture, Demonstration
2	CO5	Commercial value of ornamentals and marketing techniques: Indoor ornamentals caring principles and methods.	1	Lecture, Demonstration
Practical			Hours : 10 hrs	
Syllabus:				
<ol style="list-style-type: none"> 1. Identification and description of trees, shrubs, trees, flowering annuals, bulbous ornamentals, climbers, creepers, palms, ferns, cycads, ornamental grasses, cacti and succulents, indoor plants, foliage plants and water plants 2. Collection and planting of commonly available ornamentals 3. Preparation of pot: pot varnishing, designing 4. Preparation of potting mixture 5. Pot filling and planting ornamentals 				
Sl. no	CO Number	Topic /Activity	No of hours	Instructional methods to be used
1	CO5	Identification and description of trees, shrubs, trees, flowering annuals, bulbous ornamentals, climbers, creepers, palms, ferns, cycads, ornamental grasses, cacti and succulents, indoor plants, foliage plants and water plants	5	Practical, Demonstration, Hands on training
2	CO5	Collection and planting of commonly available ornamentals	5	Practical, Demonstration, Hands on training



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SSR

5th CYCLE

2023

		Preparation of pot: pot varnishing, designing Preparation of potting mixture Pot filling and planting ornamentals		
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Department	BOTANY
Name of Value added course	INDOOR GARDENING AND POT MAKING
Participants	UG/PG/ Both
Semester	Sem 5 UG and Sem 2 PG
Total Hours	30 hrs
Maximum intake	35 students

Class timings: Saturdays and 3:30–4:30 pm on working days

Course Co-ordinator- Dr. Anumol Jose

Faculty Members: Dr. Anumol Jose, Dr. Reshmi G R, Dr. Priya M P

Dr. M. ANILKUMAR, Ph.D.
Associate Professor & Head
Department of Botany
Union Christian College
Aluva, Ernakulam-683102, Kerala



DEPARTMENT OF BOTANY

Workload distribution

Sl. No.	Name of Faculty	Theory	Practical
1	Dr. Anumol Jose	7	4
2	Dr. Reshmi G R	7	4
3	Dr. Priya M P	6	2

Course Co-ordinator

Dr. Anumol Jose

Head of the Department

Dr. M. Anilkumar, Ph.D
Associate Professor & Head
Department of Botany
Union Christian College
Aluva, Ernakulam-683102, Kerala

Principal

Dr. M I Punnoose

Prof. Dr. M. I. Punnoose
Principal
Union Christian College, Aluva-2





UNION CHRISTIAN COLLEGE, ALUVA

DEPARTMENT OF BOTANY

Value added course on Indoor gardening and pot making

Application form

Name of Student :

Class :

Roll Number :

PRN Number :

Email :

Mobile No :

Address for communication:

Course Name :

Signature :



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Union Christian college, Aluva



Department of Botany

VALUE ADDED COURSE ON Indoor gardening and pot making

Hands on training/ Practicals/ pdf's/ videos/
3 modules



Course objectives

- # Give awareness about the common ornamentals
- # Training to make ornamental pots # Understand pot painting techniques
- # Understand Potting mixture preparation
- # Able to prepare table decor, office decor and home decor

Course duration: 30 hrs



LIST OF STUDENTS ENROLLED FOR VALUE ADDED COURSES

ACADEMIC YEAR (2021-22)

COURSE NAME: INDOOR GARDENING AND POT MAKING

Admn No	Student Name
H0253	AARYA C S
H0271	AFRA V A
H0170	AKHINU C
H0242	AKSHAYA O S
H0230	ANAGHA M M
H0080	ANANDHU KRISHNA K S
H0036	ANEENA JOHN
H0246	ANEESHA P B
H0140	ANNA SAJU
G9854	ANUPAMA K A
G9753	APARNA E S
H0081	ASIYA M A
G9706	BRIGHTLY SEBASTIAN
H0185	CHITHRA S
H0177	DEVIKA K A
G9962	ELDHOSE V K
G9960	ELSHA M ELIAS
H0077	FATHIMA O A
H0078	MIZNA M A
H0214	MUHSINA MUHAMMED
H0272	NABEESATHUL MISIRIYA
H0183	NANDANA RAMAKRISHNAN
H0028	NIKHITHA LAL
H0146	P S PRITHVIRAJ
H0281	POORNENDU R ACHARYA
H0107	R KAILAASH
G9961	ROSE ANN MARY PAUL
H0082	SHREYA R PAI
H0003	SREELAKSHMI N S
H0175	SUMAYYA T A
G9833	VISHNUDAS T A

Course co-ordinator

Dr. Anumol Jose

Dr. M. ANILKUMAR, Ph.D
Associate Professor & Head
Department of Botany
Union Christian College
Aluva, Ernakulam-683102, Kerala

Head of department

Dr. M Anilkumar

Dr. M. ANILKUMAR, Ph.D
Associate Professor & Head
Department of Botany
Union Christian College
Aluva, Ernakulam-683102, Kerala



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SSR

5th CYCLE

2023

Dep. of Botany

Date of certificate 15/09/22

Class Under Group

Address Gardening and Pot making

CLASS REGISTER OF ATTENDANCE

Sl. No.	NAMES	Roll No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1.	Ananya . C . S	H0253																														
2.	Alona . V . A	H0271																														
3.	Akhini . C	H0170																														
4.	Akshaya . O . S	H0242																														
5.	Anagha . M . M	H0230																														
6.	Anandhu Krishna . K . S	H0080																														
7.	Aneena John	H0036																														
8.	Anesha . P . B	H0246																														
9.	Anna Saju	H0140																														
10.	Anupama . K . A	C1985																														
11.	Aparna . F . S	C1975																														
12.	Aciya . M . A	H0081																														
13.	Brightly Sebastian	C1910																														
14.	Chithra . S	H0185																														
15.	Devika . K . A	H0177																														
16.	Eldhose . V . K	C1996																														
17.	Elsha . M . Elias	C1996																														
18.	Fathima . O . A	H0077																														
19.	Manu Sajeevan																															
20.	Mizna . M . A	H0078																														
21.	Mahammed Arif . P . T																															
22.	Muhisina Muhammed	H0214																														
23.	Nabeersathul Minisya	H0272																														
24.	Nandana Ramakrishnan	H0182																														
25.	Nikhitha Lal	H0025																														
26.	P . S . Pailthiraj	H0146																														
27.	Prasannendu R. Acharya	H0271																														
28.	Pratheesh . M . P																															
29.	R. Kailash	H0107																														
30.	Rose Ann Mary Paul	C1995																														
31.	Sanya R. Poi	H0582																														
32.	Seetalakshmi . N . S	H0001																														
33.	Sumayya . T . A	H0175																														
34.	Vishnuadas . T . A	C1982																														

No. Present daily

No. on Roll at beginning of Month, Admitted during month, Left No. on Roll at end of month

Teacher in Charge


Head of the Department

Dr. M. ANILKUMAR, Ph.D.
Associate Professor & Head
Department of Botany
Union Christian College
Aluva, Ernakulam-683102, Kerala

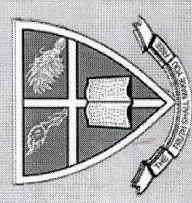
Dr. M. ANILKUMAR, Ph.D.
Associate Professor & Head
Department of Botany
Union Christian College
Aluva, Ernakulam-683102, Kerala




COURSE 4: GENE EDITING TOOLS IN MEDICINE & BIOTECHNOLOGY




**Online
Certificate Course
on
Gene Editing Tools in
Medicine & Biotechnology**



&





**Indiana University
IUUP
of Pennsylvania**

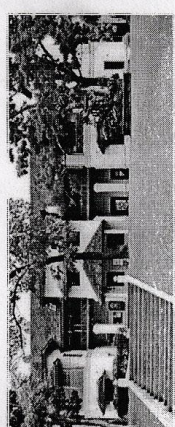
The Department of Biosciences, Union Christian College, Aluva is offering an Online Certificate Course in Gene Editing Tools in Medicine & Biotechnology in association with Department of Biology, Indiana University of Pennsylvania, PA, USA.

Course Description

As advances in biotechnology and gene editing gain momentum, so do our understanding of the principles and techniques governing the gene editing tools. The course will describe in detail the development and application of several gene editing technology like CRISPR in agriculture, animal sciences, human health, and environment. A wide variety of applications of editing process including basic biological research, development of biotechnology products, and treatment of diseases will be discussed. The course will also address issues concerning their ethical, legal, and social implications in the United States and around the world.

Student Learning Outcomes:

1. Understand the fundamental properties of different types of genome editing methods and their molecular mechanisms.
2. Understand the basic mechanisms of genome editing tools like restriction enzyme digestion, Zinc finger nucleases, TALENs gene editing, and CRISPR-Cas9 Gene editing.
3. Apply basic genome concepts to the understanding of how do gene editing works?
4. Utilize basic mechanisms of CRISPR-Cas9 in genome engineering of prokaryotes, plants, animals, and humans and the role it plays to study genes, cellular function, disease progression & therapeutic applications.



COURSE CO-ORDINATOR
Dr. Sareen Sarah John
Assistant Professor,
Dept. of Biosciences,
Union Christian College,
Aluva - 683102, Kerala, INDIA.
Phone: 91 9447502758
Alternate Phone: 91 9004428381 (Dr. Susan Eapen)
E-mail: sareensarahjohn@uccollege.edu.in

FACULTY INSTRUCTOR:
N. Bharathan PhD, Professor & Chair Biology
IUUP, Indiana, PA 15705, USA.

Union Christian College, Aluva
THE TRUTH SHALL MAKE YOU FREE

23rd OCT - 19th Dec 2021

Dr. Sareen Sarah John
Head of the Dept.
of Biosciences
Union Christian College



Online Certificate Course on Gene Editing Tools in Medicine & Biotechnology

Teaching Model

Student learning through discussion forums, assignments, and Zoom delivery. Participation in class is necessary regardless of where and how students attend. Online is not meant to be a diminished experience but an alternative. Class sessions are not meant to be passive observations of a class video stream, but rather to have fully interactive engagements, including Q&A, group work (if possible) and student presentations.

Evaluation

1. Written Assignment 1—10%
2. Written Assignment 2—10%
3. Three Short Exams—30%
4. Discussion Forums—20%
5. Final Exams—30%

Evaluation Methods and Grading Policy:

A student's final grade reflects performance in the lecture exams; class participation/and critique of written assignments. Your grade in the course will be composed of i) 60% examinations - Exams will be Multiple choices and short answer essays. **All will have to take Final Exam to get Final Grade.** ii) 20% Written Assignments and Discussion Forums (20%) - Students will have to select TOPICS for Written Assignment 1 & Written Assignment 2. Total assignment will be worth 20% of the final grade.

All will have to submit assignments and participate in Discussion Forums to get a FINAL Grade. Course Grades; Grading will be based on a straight percentage scale.

A= 90%-100%, B= 80%-89%, C= 70%-79%, D= 60%-69% and F= Less than 59.1%

After successful completion of the course, Students will be awarded a Certificate jointly signed by Faculty Instructor from Indiana University of Pennsylvania (IUP) USA and Union Christian College, Aluva, Kerala. The Certificate will be sent to your door step by India Post/Courier

Course Modules

Introduction: What is Genome Editing?

Module 1

Structure and organization of DNA in prokaryotic and eukaryotic cells, Chromatin structure; Gene structure and function.

Module 2

Discovery and basic principles of gene editing, How does gene editing tool work?

Types of Gene Editing tools:

Restriction Enzymes, Zinc Finger Nucleases, Talen Gene Editing, CRISPR-Cas9 Gene Editing.

Module 3: Application and operation of CRISPR/Cas9 system as a genome editing tool:

CRISPR Application in Agriculture: To enhance Traditional Breeding Techniques in Non-Traditional Ways.

CRISPR Application in Humans: Advances in therapeutic application of CRISPR-cas9, CRISPR application immune drug development, CRISPR babies.

Module 4: CRISPR/Cas9 in Disease Models

Pulmonary and gastrointestinal diseases, Hematologic diseases including sickle-cell diseases, Viral cause of diseases (HIV and Human papilloma virus), Vector borne diseases (malaria): **Gene Drive:** Cancer and cancer drug development using CRISPR

Module 5: Unusual Applications of CRISPR i) pet breeding, ii) allergy free foods, decaf coffee beans, nutritious fish, iii) greener fuels, iv) eradicating pests, v) faster racehorses, vi) de-extinction, vi) ecosystem protection

Module 6: CRISPR Ethics: Moral Considerations for Applications of CRISPR

- i) Ethical challenges created by CRISPR, ii) Biological consequences of gene editing a gene in germ line/somatic cells, iii) In translational and clinical medicine, iv) Fertility applications, v) Regulation for clinical research involving human subjects, vi) Establish framework in some countries to manage research risks, vii) Ecosystem alteration to protect endangered species, viii) Prevention against misuses of technology, ix) Justice in CRISPR/cas9 research and clinical applications

In addition, we will use news articles on CRISPR technology topics from current media and publications for discussion.

Course Details

Credits—3

Eligibility - B.Sc., M.Sc., Ph.D (Biological Sciences) (Open for Students & Faculty from Institutes in India only)

Course commencement - 23rd October 2021

Days - Saturdays and Sundays (7.00 pm to 8.30 pm)

Mode - Online

Course Fees:

Rs.5000 for UC College Students & Faculty

Rs.10000 for other Institutions/Colleges

(Payment to be made only by selected candidates)

Mode of Selection - Based on Merit /Research Interest

Total number of Seats - 40

(30 for UC College and balance to others)

To register:

<https://forms.gle/etD4em76aPDuagVUA>

(Last Date of Registration: 20th Sept. 2021)

Dr. Sareen Sarah John
Head of the Department
Dept. of Biosciences
Union Christian College



Online Certificate Course on
Gene Editing Tools in Medicine & Biotechnology
Offered by Department of Biosciences, Union Christian College, Aluva, Kerala, India,
In association with Department of Biology, Indiana University of Pennsylvania, PA, USA

Course Outcomes:

1. Understand the fundamental properties of different types of genome editing methods and their molecular mechanisms.
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CRISPR Application in Agriculture: To enhance Breeding Techniques in Non-Traditional Ways.

CRISPR Application in Humans: Advances in therapeutic of CRISPR-cas9, CRISPR application immune drug development, CRISPR babies.

Module 4: CRISPR/Cas9 in Disease Models

Pulmonary and gastrointestinal diseases, Hematologic diseases including sickle-cell diseases, Viral cause of diseases (HIV and Human papilloma virus), Vector borne diseases (malaria):

Gene Drive: Cancer and cancer drug development using CRISPR


Dr. Sareen Sarah John
Head of the Department
Dept. of Biosciences
Union Christian College
Aluva 693 102



Module 5: Unusual Applications of CRISPR in i) pet breeding, ii) allergy free foods, decaf coffee beans, nutritious fish, iii) greener fuels, iv) eradicating pests, v) faster racehorses, vi) de-extinction, vi) ecosystem protection

Module 6: CRISPR Ethics: Moral Considerations for Applications of CRISPR Applications of CRISPR

i) Ethical challenges created by CRISPR, ii) Biological consequences of gene editing a gene in germ line/and somatic cells, iii) In translational and clinical medicine, iv) Fertility applications, v) Regulation for clinical research involving human subjects, vi) Establish framework in some countries to manage research risks, vii) Ecosystem alteration to protect endangered species, viii) Prevention against misuses of technology, ix) Justice in CRISPR/cas9 research and clinical applications

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After successful completion of the course, Students will be awarded a Certificate jointly signed by Faculty Instructor from Indiana University of Pennsylvania (IUP) USA and Union Christian College, Aluva, Kerala.

FACULTY INSTRUCTOR: N. Bharathan PhD, Professor & Chair Biology, Indiana University of Pennsylvania (IUP), Indiana, PA 15705, USA.

COURSE CO-ORDINATOR: Dr. Sareen Sarah John Assistant Professor, Dept. of Biosciences, Union Christian College, Aluva - 683102, Kerala, INDIA. E-mail: sareensarahjohn@uccollege.edu.in

Dr. Sareen Sarah John
Head of the Department
Dept. of Biosciences
Union Christian College,
Aluva - 683102



Affiliated to Mahatma Gandhi University, Kottayam, India
NAAC Re-Accredited with A Grade in 4th Cycle (CGPA 3.45)
www.uccollege.edu.in

List of Participants
Genome Editing Tools in Medicine & Biotechnology

Sl.No	Name	PRN
1	ANASWARA VELAYUDHAN	200011021403
2	ANISHA BENNY	200011021404
3	ANJALI AMBROSE	200011021405
4	ASWATHI K R	200011021406
5	ASWATHY T L	200011021407
6	CHRISTY THOMAS	200011021408
7	ENOSH K R	200011021409
8	FARHANA NAZAR	200011021410
9	GOPIKA GOVIND	200011021411
10	KRISHNAPRABHA T S	200011021412
11	LAKSHMI BABU	200011021413
12	MARIYA PETER	200011021415
13	MELBA ELIZABETH JOSEPH	200011021416
14	POOJA G NAIR	200011021417
15	REJI KURIAN	200011021419
16	SHAZMI	200011021420
17	SILPA T S	200011021421
18	SONA LIZ JACOB	200011021422
19	SREELAKSHMI M P	200011021423
20	SREEYA KUDILIL	200011021424
21	SURABHI SADASIVAN	200011021425
22	VRINDA S	200011021426
23	ANEETA MARIYA JOY	190011011706

H.O.D

Dr. Sareen Sarah John
Head of the Department
Dept. of Biosciences
Union Christian College
Aluva - 683 102



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SSR
5th CYCLE
2023

Attendance - Genomes Editing Tools in Medicine & Biotechnology

Name	PRN	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8	Day9	Day10	Day11	Day12	Day13	Day14	Day15	Day16	Day17	Day18
ANASWARA VELAYUDHAN	200011021403	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ANISHA BENNY	200011021404	X	ab	ab	X	X	X	X	X	X	X	X	X	X	X	X	X	X	ab
ANJALI AMBROSE	200011021405	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ASWATHI K R	200011021406	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ASWATHY T L	200011021407	ab	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CHRISTY THOMAS	200011021408	ab	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ENOSH K R	200011021409	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FARHANA NAZAR	200011021410	ab	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GOPIKA GOVIND	200011021411	X	ab	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
KRISHNAPRABHA T S	200011021412	ab	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LAKSHMI BABU	200011021413	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MARIYA PETER	200011021415	ab	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MELBA ELIZABETH JOSEPH	200011021416	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
POOJA G NAIR	200011021417	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
REJI KURIAN	200011021419	ab	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SHAZMI	200011021420	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SILPA T S	200011021421	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SONA LIZ JACOB	200011021422	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SREELAKSHMI M P	200011021423	ab	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SREEYA KUDILIL	200011021424	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SURABHI SADASIVAN	200011021425	X	ab	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VRINDA S	200011021426	X	ab	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ANEETA MARIYA JOY	190011011706	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Teacher in-charge

HOD :

Dr. Sareen Sarah John
Head of the Department
Dept. of Biosciences
Union Christian College
Aluva 683102

Dr. Sareen Sarah John



COURSE 5: HUMAN VALUES AND PROFESSIONAL ETHICS

Human Values and Professional Ethics

Course Syllabus

Module 1: Values and their Importance

Definition of values, Types of values, Sources of values, Importance of having core values, Study any 5 values relevant to student life

Suggestions: Empathy, Respect, Truthfulness, Integrity, Resilience, Optimism, Diligence
10 hours

Module 2: Social and Professional ethics

Democracy, social justice, civic duty, equity and equality, Team work, communication, responsibility, Leadership, Discipline, Quality assurance

10 hours

Module 3: Expressing values in daily life

Critical thinking, Making informed decisions, Rights and responsibilities of students and citizens, Inspirations from role models- a study of lives that changed societal values, Practical applications of living

10 hours

Reference:



Handbook of Activities on Life skills

https://aif.org/wp-content/uploads/2018/10/Lifeskills-2018a_MAST.pdf

<http://www.himpub.com/documents/Chapter939.pdf>

<https://www.unicef.org/azerbaijan/media>

Action plan:

Duration: 3years (10 hours per year, January to March , Friday first hour)

Strength: Whole college UG students

Classes by: Faculty members from all departments

Course Structure: Blended learning

Scheme of Examination: Total Marks 100

Internal Assessment: 40 Marks

Sl. No.	Internal Assessment activities	Marks
1	Assignment/Fieldwork	10
2	Seminar/Group discussion	10
3	Poster Presentation	10
4	Role Play	10

*75% Attendance is mandatory

External Assessment using Mobile Application: 60 marks

CERTIFICATION:

A certificate of the course will be awarded to all those who have successfully completed the theory as well as practical activity in all courses.



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SSR
5th CYCLE
2023

Staff Attendance Register

19-20

Sl No.	Designation	NAME	Days	20-21												21-22												For 20			REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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SSR
5th CYCLE
2023

Staff Attendance Register

Sl No.	Designation	NAME	Days	19-20												20-21												21-22												For 20			REMARKS
				Date	Days											Date	Days											Date	Days											IN THE MONTH	PREVIOUS	TOTAL	
					1	2	3	4	5	6	7	8	9	10	11		12	13	14	15	16	17	18	19	20	21	22		23	24	25	26	27	28	29	30	31						
33		SOORAJ T.C	M	X	X	X	X	X	X	X	X	A	A	X	X	X	X	X	X	X	X	A	X	X	X	X	X	X	X	X	X	X	X										
34		STENIN RAJU	E	X	X	X	X	A	X	X	X	A	X	X	A	X	X	A	X	X	A	X	A	X	A	X	X	X	X	X	X	X	X										
35		UMAIR F	M	X	A	X	X	X	X	X	X	X	A	A	X	X	X	X	X	X	A	X	X	A	X	X	A	X	X	X	X	X	X										
36		AARYA R NAR	E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
37		AKSA P.T	M	A	X	X	X	A	X	X	X	X	A	A	X	X	X	X	X	A	X	X	A	X	X	X	X	X	X	X	X	X	X										
38		ANEENA SABU	E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
39		ANITHA RAJENDRAN	M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
40		ARTUN KRISHNA K.R	E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
41		ARSHA SURESH	M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
42		ASHITHA P.R	E	X	A	X	A	X	X	X	X	X	A	A	X	X	X	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X										
43		ASWATHY MANIKUTAN	M	A	A	A	X	X	X	X	X	X	X	A	A	X	X	X	X	A	X	X	X	A	X	X	X	X	X	X	X	X	X										
44		ASWATHY P.S	E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
45		CHRISTO JOHN	M	X	X	X	A	X	X	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
46		DESSA MARIYA GEORGE	E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
47		DHUPAK BABY	M	X	X	X	A	A	X	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
48		DILIN MATHEW	E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
49		DIVA BANNA GEORGE	M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
50		FARZA NASRIN	E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
51		GOKUL KRISHNA P.D	M	X	X	X	A	X	X	X	A	X	X	A	X	X	X	A	X	X	X	A	X	X	X	X	X	X	X	X	X	X	X										
52		GRACE ELIZABETH THOMAS	E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
53		INDIYA SUDHEESH	M	X	X	X	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
54		MIDHUNA K.S	E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
55		RAHANA P.S	M	X	A	X	X	X	X	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
56		RESMI ASOKAN	E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
57		ROSEMARY VARGHESE	M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
58		SAHADITHA JALEEL	E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
59		SALMAN FARIS MA	M	X	X	X	X	A	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
60		SREELAKSHMI K.S	E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																							





COURSE 6: MICROSOFT EXCEL TRAINING

UNION CHRISTIAN COLLEGE, SCHOOL OF MANAGEMENT STUDIES

CRITERIA 1.2.1 & 1.2.2

(VALUE ADDED COURSES)

MBA VAC ME 001

2021 -2022





UNION CHRISTIAN COLLEGE,
SCHOOL OF MANAGEMENT STUDIES

Notice

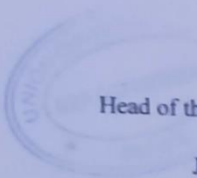
The department of MBA shall start Value – added courses

1. Microsoft Excel training

It shall be 40 contact hours course including a series of lectures and practical session

Students from the departments are requested to enrol themselves for the course and participate actively to make it a grand success.


DIRECTOR
MBA PROGRAMME
UNION CHRISTIAN COLLEGE
ALUVA 2023


Head of the department
Janisben Bino



Proposal
Of
Value Added Course
On
1. Microsoft Excel training
For
MBA students
Offered by
School of management studies



**Aim:**

The Value added courses are provided to enhance student's overall education experience and equip them with additional skills, knowledge, and competencies beyond their core academic curriculum. These courses are designed to offer practical and specialized learning opportunities that can benefit students in various ways like skill enhancement, diversification, entrepreneurship and innovation, personal growth.

Objective:

The primary objective is to equip students with practical skills, and to bridge the gap between academic knowledge and practical application in real world contexts.





Course Content:

Training in Microsoft Excel	
Module 1	Introduction to Microsoft Excel Basic formulas and functions
Module 2	Managing data and worksheets Advanced functions, data analysis tools
Module 3	Data visualization tools Charts and graphs, data validation and auditing tools

Duration: 32 hours (6 days)

Eligibility: under graduation

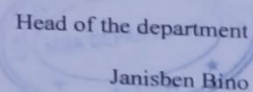
Batch size: 60 students

Class Timing: 9:30am – 4:30am

Course coordinator: Chinnu Mary John

Faculty Member: Jomon joseph


DIRECTOR
MBA PROGRAMME
UNION CHRISTIAN COLLEGE
ALUVA - 683 102


Head of the department
Janisben Bino



**UNION CHRISTIAN COLLEGE,
SCHOOL OF MANAGEMENT STUDIES**
(VALUE ADDED COURSES)

Application form

Name of Student:

Class:

Admission Number:

Email Address:

Mobile Number:

Address for Communication:

Course Name:

Signature:



Head of the Department

Janisben Bino



UNION CHRISTIAN COLLEGE, ALUVA
School of Management Studies
MBA 2021 Admn. Students

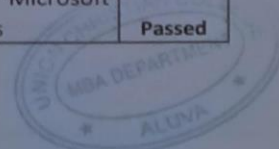
Sl . No	Name of the students	Courses	Result
1	ABINA VALSALAN	*Hedge. *Microsoft Excel *Analytics	Passed
2	AJAY DAVIS	*Hedge. *Microsoft Excel *Analytics	Passed
3	AKSHARA SABU	*Hedge. *Microsoft Excel *Analytics	Passed
4	AKSHAYA SANTHOSH	*Hedge. *Microsoft Excel *Analytics	Passed
5	ALDRIN LAWRENCE	*Hedge. *Microsoft Excel *Analytics	Passed
6	ALDRINA FRANCIS	*Hedge. *Microsoft Excel *Analytics	Passed
7	ALFAS K A	*Hedge. *Microsoft Excel *Analytics	Passed
8	ALFIN ANTO	*Hedge. *Microsoft Excel *Analytics	Passed
9	AMALA JOSHNA	*Hedge. *Microsoft Excel *Analytics	Passed
10	ANGEL MARY K J	*Hedge. *Microsoft Excel *Analytics	Passed
11	ANJALI J	*Hedge. *Microsoft Excel *Analytics	Passed
12	ANJANA N KUMAR	*Hedge. *Microsoft Excel *Analytics	Passed
13	ANJANA POULOSE	*Hedge. *Microsoft Excel *Analytics	Passed

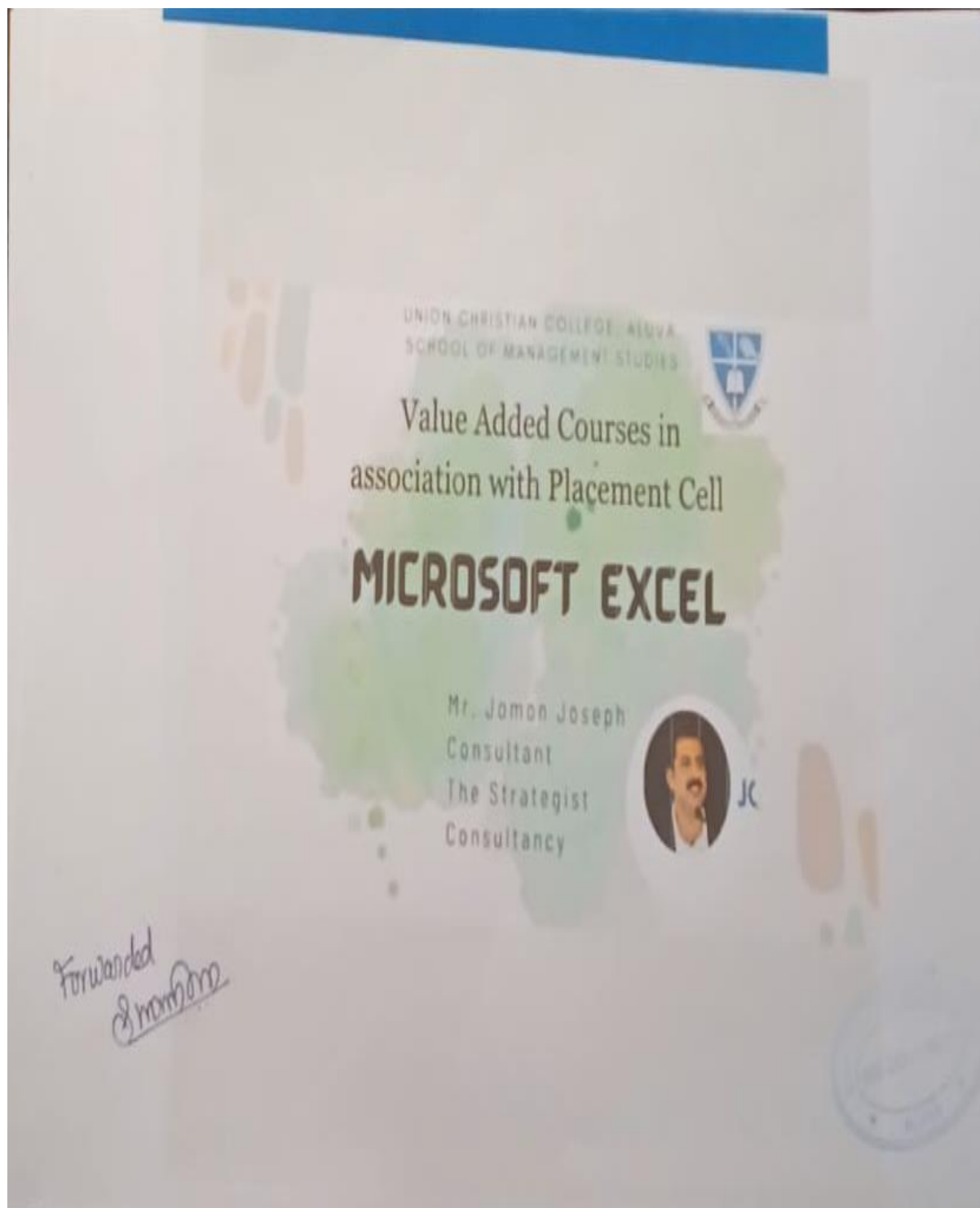


30	FARZANA RAFEEQ	*Hedge. *Microsoft Excel *Analytics	Passed
31	FASNA K N	*Hedge. *Microsoft Excel *Analytics	Passed
32	FEMINA THOMAS	*Hedge. *Microsoft Excel *Analytics	Passed
33	HARISHMA HARI	*Hedge. *Microsoft Excel *Analytics	Passed
34	HIMA K H	*Hedge. *Microsoft Excel *Analytics	Passed
35	HRIDHYA K J	*Hedge. *Microsoft Excel *Analytics	Passed
36	JAYAKRISHNAN K	*Hedge. *Microsoft Excel *Analytics	Passed
37	JIYA MARY THOMAS	*Hedge. *Microsoft Excel *Analytics	Passed
38	JOJI JOHN	*Hedge. *Microsoft Excel *Analytics	Passed
39	KRISHNA O R	*Hedge. *Microsoft Excel *Analytics	Passed
40	MEGHA RAJEEV	*Hedge. *Microsoft Excel *Analytics	Passed
41	MUHAMMED IJAS	*Hedge. *Microsoft Excel *Analytics	Passed
42	N N NAZIHA FARZANA	*Hedge. *Microsoft Excel *Analytics	Passed
43	NANDU ANAND	*Hedge. *Microsoft Excel *Analytics	Passed
44	NASRIN K MUHAMMED	*Hedge. *Microsoft Excel *Analytics	Passed
45	NEENU M H	*Hedge. *Microsoft Excel *Analytics	Passed



46	NEERAJA T S	*Hedge. *Microsoft Excel *Analytics	Passed
47	NITHISH M P	*Hedge. *Microsoft Excel *Analytics	Passed
48	NOEL JOBY	*Hedge. *Microsoft Excel *Analytics	Passed
49	NOORUL ABZAR	*Hedge. *Microsoft Excel *Analytics	Passed
50	POURNAMI RAVIKUMAR	*Hedge. *Microsoft Excel *Analytics	Passed
51	PREENA RAJAN	*Hedge. *Microsoft Excel *Analytics	Passed
52	ROSEMIN GEORGE	*Hedge. *Microsoft Excel *Analytics	Passed
53	ROSMY T P	*Hedge. *Microsoft Excel *Analytics	Passed
54	SALIHATH K L	*Hedge. *Microsoft Excel *Analytics	Passed
55	SETHULAKSHMY P N	*Hedge. *Microsoft Excel *Analytics	Passed
56	SOYA MARIYA JOSH Y	*Hedge. *Microsoft Excel *Analytics	Passed
57	SRADHA SANTHOSH	*Hedge. *Microsoft Excel *Analytics	Passed
58	SUMAYYA HUSAIN M A	*Hedge. *Microsoft Excel *Analytics	Passed
59	SUNAINA SALIM	*Hedge. *Microsoft Excel *Analytics	Passed
60	TINU YOHANNAN	*Hedge. *Microsoft Excel *Analytics	Passed







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SSR
5th CYCLE
2023

2021 admission students list

sino	Name	FN	AE	FN	AE	FN	AE	FN	AE
1	ABINA VALSALAN	X	X	X	X	X	X	X	X
2	AJAY DAVIS	X	X	X	X	X	X	X	X
3	AKSHARA SABU	X	X	X	X	X	X	X	X
4	AKSHAYA SANTHOSH	X	X	X	X	X	X	X	X
5	ALDRIN LAWRENCE	X	X	X	X	X	X	X	X
6	ALDRINA FRANCIS	X	X	X	X	X	X	X	X
7	ALFAS K A	X	X	X	X	X	X	X	X
8	ALFIN ANTO	X	X	X	X	X	X	X	X
9	AMALA JOSHNA	X	X	X	X	X	X	X	X
10	ANGEL MARY K J	X	X	X	X	X	X	X	X
11	ANJALI J	X	X	X	X	X	X	X	X
12	ANJANA N KUMAR	X	X	X	X	X	X	X	X
13	ANJANA POULOSE	X	X	X	X	X	X	X	X
14	ANJU K THANKACHAN	X	X	X	X	X	X	X	X
15	ANJUMOL T R	X	X	X	X	X	X	X	X
16	ANNA SHIBU	X	X	X	X	X	X	X	X
17	ANTO JOSE	X	X	X	X	X	X	X	X
18	APARNA RAJEEV	X	X	X	X	X	X	X	X
19	ARUN S	X	X	X	X	X	X	X	X
20	ARYA S	X	X	X	X	X	X	X	X
21	ASWATHY MOHANAN	X	X	X	X	X	X	X	X
22	ASWATHY SURESH	X	X	X	X	X	X	X	X
23	ASWATHY VISWANATHAN	X	X	X	X	X	X	X	X
24	ATHIRA P S	X	X	X	X	X	X	X	X
25	BIBIN BIJU	X	X	X	X	X	X	X	X
26	DELEENA A B	X	X	X	X	X	X	X	X
27	DEVIPRIYA M S	X	X	X	X	X	X	X	X
28	DILMA P T	X	X	X	X	X	X	X	X
29	DIXON BAIJU	X	X	X	X	X	X	X	X
30	FARZANA RAFEEQ	X	X	X	X	X	X	X	X
31	FASNA K N	X	X	X	X	X	X	X	X
32	FEMINA THOMAS	X	X	X	X	X	X	X	X
33	HARISHMA HARI	X	X	X	X	X	X	X	X
34	HIMA K H	X	X	X	X	X	X	X	X
35	HRIDHYA K J	X	X	X	X	X	X	X	X
36	JAYAKRISHNAN K	X	X	X	X	X	X	X	X

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37	JIYA MARY THOMAS	X	X	X	X	X	X	X	X
38	JOJI JOHN	X	X	X	X	X	X	X	X
39	KRISHNA O R	X	X	X	X	X	X	X	X
40	MEGHA RAJEEV	X	X	X	X	X	X	X	X
41	MUHAMMED IJAS	X	X	X	X	X	X	X	X
42	NANDU ANAND	X	X	X	X	X	X	X	X
43	NASRIN K MUHAMMED	X	X	X	X	X	X	X	X
44	N N NAZIHA FARZANA	X	X	X	X	X	X	X	X
45	NEENU M H	X	X	X	X	X	X	X	X
46	NEERAJA T S	X	X	X	X	X	X	X	X
47	NITHISH M P	X	X	X	X	X	X	X	X
48	NOEL JOBY	X	X	X	X	X	X	X	X
49	NOORUL ABZAR	X	X	X	X	X	X	X	X
50	POURNAMI RAVIKUMAR	X	X	X	X	X	X	X	X
51	PREENA RAJAN	X	X	X	X	X	X	X	X
52	ROSEMIN GEORGE	X	X	X	X	X	X	X	X
53	ROSMY T P	X	X	X	X	X	X	X	X
54	SALIHATH K L	X	X	X	X	X	X	X	X
55	SETHULAKSHMY P N	X	X	X	X	X	X	X	X
56	SOYA MARIYA JOSHLY	X	X	X	X	X	X	X	X
57	SRADHA SANTHOSH	X	X	X	X	X	X	X	X
58	SUMAYYA HUSAIN M A	X	X	X	X	X	X	X	X
59	SUNAINA SALIM	X	X	X	X	X	X	X	X
60	TINU YOHANNAN	X	X	X	X	X	X	X	X

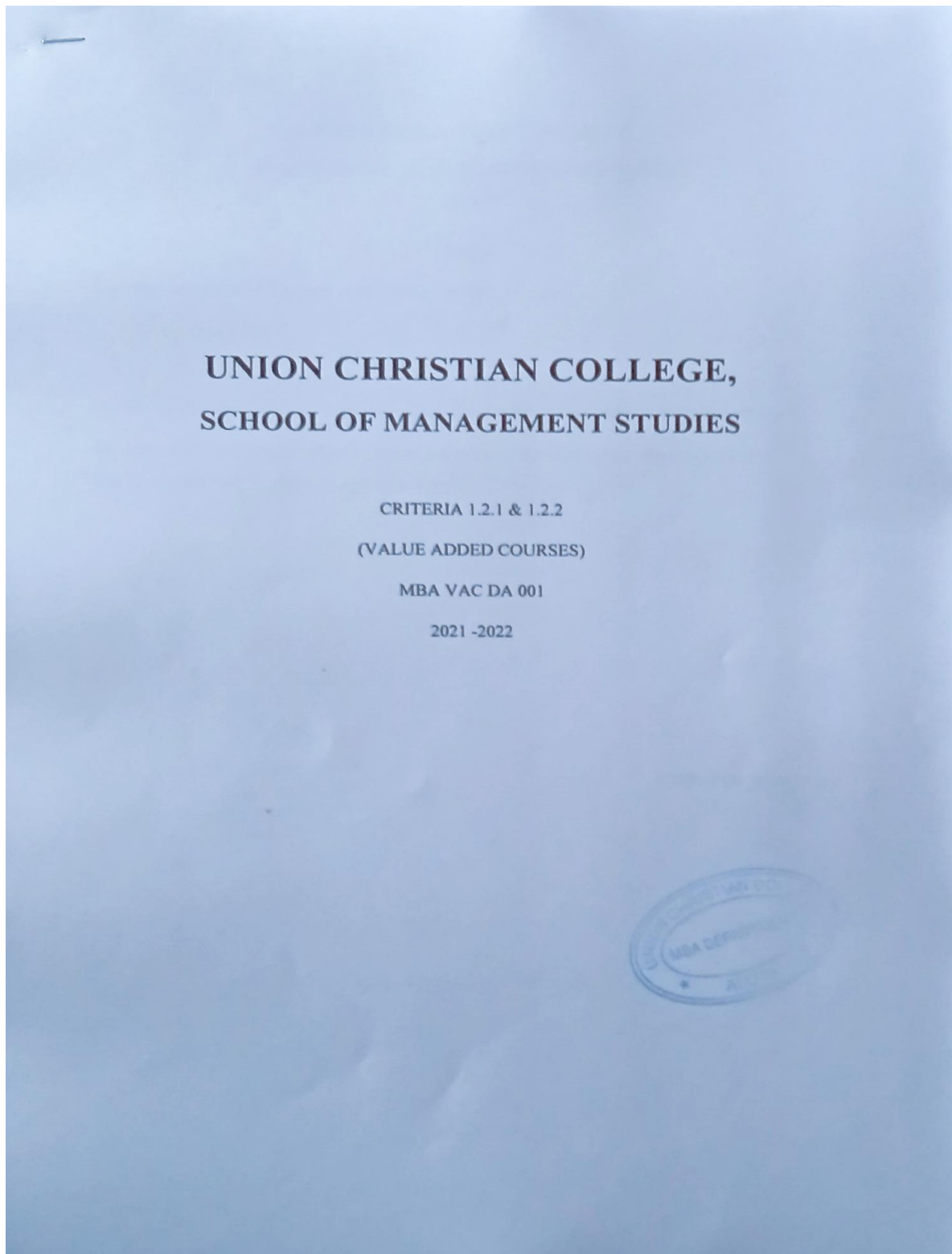
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COURSE 7: DATA ANALYTICS





**UNION CHRISTIAN COLLEGE,
SCHOOL OF MANAGEMENT STUDIES**

Notice

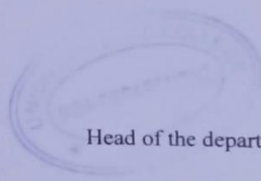
The department of MBA shall start Value – added courses

1. Data Analytics

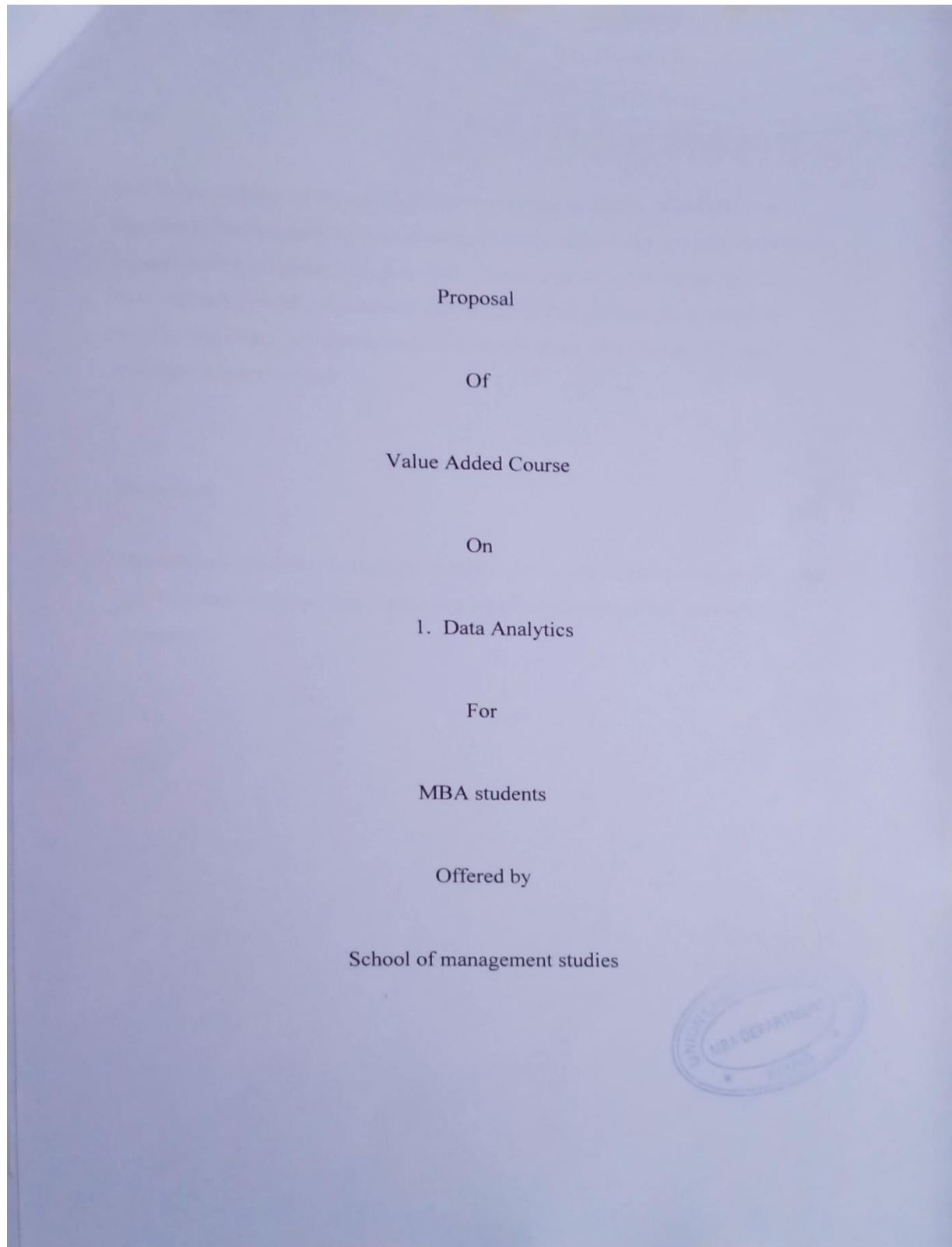
It shall be 40 contact hours course including a series of lectures and practical session

Students from the departments are requested to enrol themselves for the course and participate actively to make it a grand success.


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Head of the department

Janisben Bino



**Aim:**

The Value added courses are provided to enhance student's overall education experience and equip them with additional skills, knowledge, and competencies beyond their core academic curriculum. These courses are designed to offer practical and specialized learning opportunities that can benefit students in various ways like skill enhancement, diversification, entrepreneurship and innovation, personal growth.

Objective:

The primary objective is to equip students with practical skills, and to bridge the gap between academic knowledge and practical application in real world contexts.





UNION CHRISTIAN COLLEGE, SCHOOL OF MANAGEMENT STUDIES

(VALUE ADDED COURSES)

Application form

Name of Student:

Class:

Admission Number:

Email Address:

Mobile Number:

Address for Communication:

Course Name:

Signature:



Head of the Department

Janisben Bino



UNION CHRISTIAN COLLEGE, ALUVA
School of Management Studies
MBA 2021 Admn. Students

Sl. No	Name of the students	Courses	Result
1	ABINA VALSALAN	*Hedge. *Microsoft Excel *Analytics	Passed
2	AJAY DAVIS	*Hedge. *Microsoft Excel *Analytics	Passed
3	AKSHARA SABU	*Hedge. *Microsoft Excel *Analytics	Passed
4	AKSHAYA SANTHOSH	*Hedge. *Microsoft Excel *Analytics	Passed
5	ALDRIN LAWRENCE	*Hedge. *Microsoft Excel *Analytics	Passed
6	ALDRINA FRANCIS	*Hedge. *Microsoft Excel *Analytics	Passed
7	ALFAS K A	*Hedge. *Microsoft Excel *Analytics	Passed
8	ALFIN ANTO	*Hedge. *Microsoft Excel *Analytics	Passed
9	AMALA JOSHNA	*Hedge. *Microsoft Excel *Analytics	Passed
10	ANGEL MARY K J	*Hedge. *Microsoft Excel *Analytics	Passed
11	ANJALI J	*Hedge. *Microsoft Excel *Analytics	Passed
12	ANJANA N KUMAR	*Hedge. *Microsoft Excel *Analytics	Passed
13	ANJANA POULOSE	*Hedge. *Microsoft Excel *Analytics	Passed



14	ANJU K THANKACHAN	*Hedge. *Microsoft Excel *Analytics	Passed
15	ANJUMOL T R	*Hedge. *Microsoft Excel *Analytics	Passed
16	ANNA SHIBU	*Hedge. *Microsoft Excel *Analytics	Passed
17	ANTO JOSE	*Hedge. *Microsoft Excel *Analytics	Passed
18	APARNA RAJEEV	*Hedge. *Microsoft Excel *Analytics	Passed
19	ARUN S	*Hedge. *Microsoft Excel *Analytics	Passed
20	ARYA S	*Hedge. *Microsoft Excel *Analytics	Passed
21	ASWATHY MOHANAN	*Hedge. *Microsoft Excel *Analytics	Passed
22	ASWATHY SURESH	*Hedge. *Microsoft Excel *Analytics	Passed
23	ASWATHY VISWANATHAN	*Hedge. *Microsoft Excel *Analytics	Passed
24	ATHIRA P S	*Hedge. *Microsoft Excel *Analytics	Passed
25	BIBIN BIJU	*Hedge. *Microsoft Excel *Analytics	Passed
26	DELEENA A B	*Hedge. *Microsoft Excel *Analytics	Passed
27	DEVIPRIYA M S	*Hedge. *Microsoft Excel *Analytics	Passed
28	DILMA P T	*Hedge. *Microsoft Excel *Analytics	Passed
29	DIXON BAIJU	*Hedge. *Microsoft Excel *Analytics	Passed

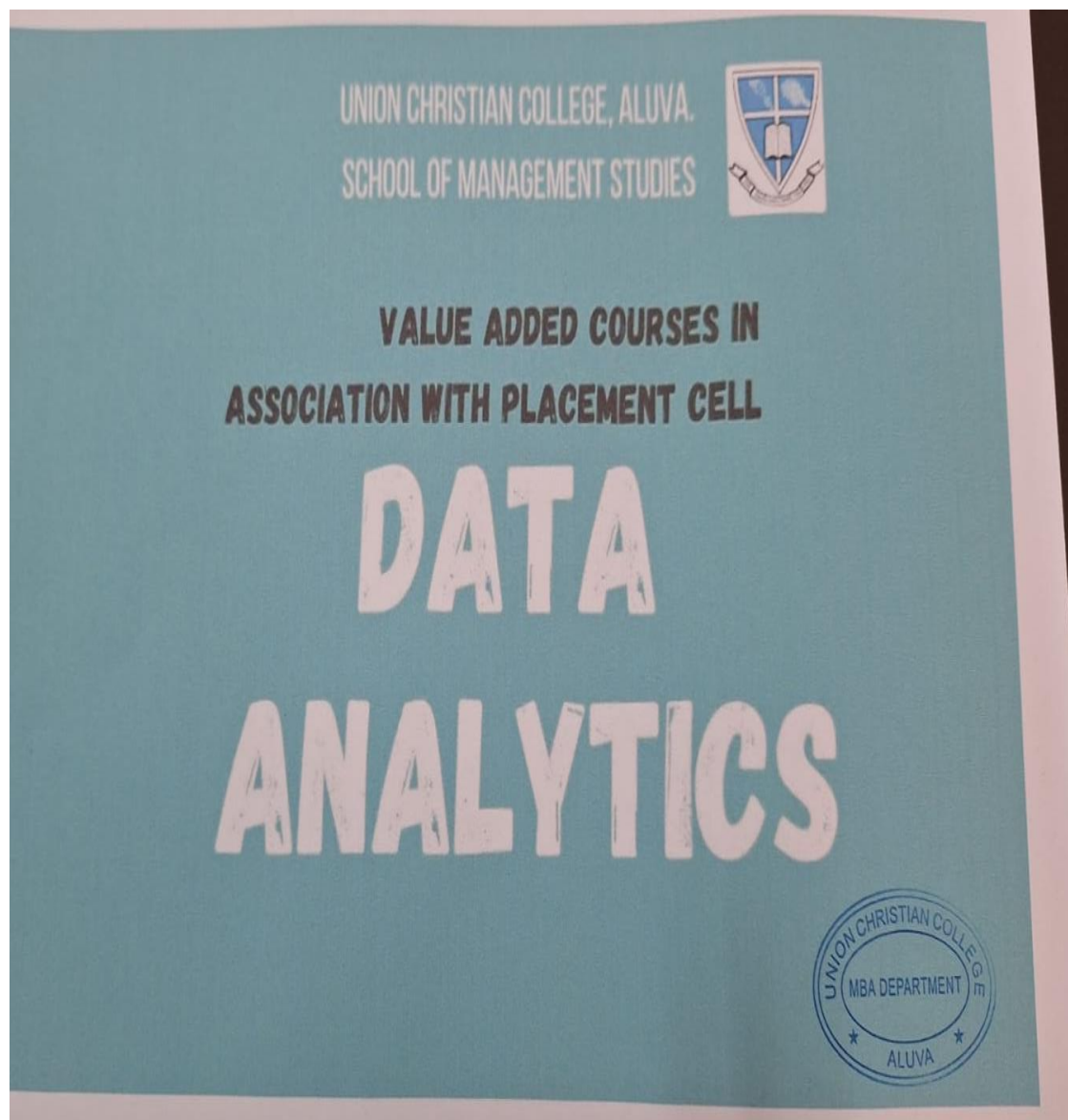


30	FARZANA RAFEEQ	*Hedge. *Microsoft Excel *Analytics	Passed
31	FASNA K N	*Hedge. *Microsoft Excel *Analytics	Passed
32	FEMINA THOMAS	*Hedge. *Microsoft Excel *Analytics	Passed
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34	HIMA K H	*Hedge. *Microsoft Excel *Analytics	Passed
35	HRIDHYA K J	*Hedge. *Microsoft Excel *Analytics	Passed
36	JAYAKRISHNAN K	*Hedge. *Microsoft Excel *Analytics	Passed
37	JIYA MARY THOMAS	*Hedge. *Microsoft Excel *Analytics	Passed
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44	NASRIN K MUHAMMED	*Hedge. *Microsoft Excel *Analytics	Passed
45	NEENU M H	*Hedge. *Microsoft Excel *Analytics	Passed

MBA DEPARTMENT
ALUVA



46	NEERAJA T S	*Hedge. Excel	*Microsoft *Analytics	Passed
47	NITHISH M P	*Hedge. Excel	*Microsoft *Analytics	Passed
48	NOEL JOBY	*Hedge. Excel	*Microsoft *Analytics	Passed
49	NOORUL ABZAR	*Hedge. Excel	*Microsoft *Analytics	Passed
50	POURNAMI RAVIKUMAR	*Hedge. Excel	*Microsoft *Analytics	Passed
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56	SOYA MARIYA JOSHY	*Hedge. Excel	*Microsoft *Analytics	Passed
57	SRADHA SANTHOSH	*Hedge. Excel	*Microsoft *Analytics	Passed
58	SUMAYYA HUSAIN M A	*Hedge. Excel	*Microsoft *Analytics	Passed
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SSR
5th CYCLE
2023

2021 admission students list

sino	Name	FN	AE	FN	AE	FN	AE	FN	AE
1	ABINA VALSALAN	X	X	X	X	X	X	X	X
2	AJAY DAVIS	X	X	X	X	X	X	X	X
3	AKSHARA SABU	X	X	X	X	X	X	X	X
4	AKSHAYA SANTHOSH	X	X	X	X	X	X	X	X
5	ALDRIN LAWRENCE	X	X	X	X	X	X	X	X
6	ALDRINA FRANCIS	X	X	X	X	X	X	X	X
7	ALFAS K A	X	X	X	X	X	X	X	X
8	ALFIN ANTO	X	X	X	X	X	X	X	X
9	AMALA JOSHNA	X	X	X	X	X	X	X	X
10	ANGEL MARY K J	X	X	X	X	X	X	X	X
11	ANJALI J	X	X	X	X	X	X	X	X
12	ANJANA N KUMAR	X	X	X	X	X	X	X	X
13	ANJANA POULOSE	X	X	X	X	X	X	X	X
14	ANJU K THANKACHAN	X	X	X	X	X	X	X	X
15	ANJUMOL T R	X	X	X	X	X	X	X	X
16	ANNA SHIBU	X	X	X	X	X	X	X	X
17	ANTO JOSE	X	X	X	X	X	X	X	X
18	APARNA RAJEEV	X	X	X	X	X	X	X	X
19	ARUN S	X	X	X	X	X	X	X	X
20	ARYA S	X	X	X	X	X	X	X	X
21	ASWATHY MOHANAN	X	X	X	X	X	X	X	X
22	ASWATHY SURESH	X	X	X	X	X	X	X	X
23	ASWATHY VISWANATHAN	X	X	X	X	X	X	X	X
24	ATHIRA P S	X	X	X	X	X	X	X	X
25	BIBIN BIJU	X	X	X	X	X	X	X	X
26	DELEENA A B	X	X	X	X	X	X	X	X
27	DEVIPRIYA M S	X	X	X	X	X	X	X	X
28	DILMA P T	X	X	X	X	X	X	X	X
29	DIXON BAIJU	X	X	X	X	X	X	X	X
30	FARZANA RAFEEQ	X	X	X	X	X	X	X	X
31	FASNA K N	X	X	X	X	X	X	X	X
32	FEMINA THOMAS	X	X	X	X	X	X	X	X
33	HARISHMA HARI	X	X	X	X	X	X	X	X
34	HIMA K H	X	X	X	X	X	X	X	X
35	HRIDHYA K J	X	X	X	X	X	X	X	X
36	JAYAKRISHNAN K	X	X	X	X	X	X	X	X

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37	JIYA MARY THOMAS	X	X	X	X	X	X	X	X
38	JOJI JOHN	X	X	X	X	X	X	X	X
39	KRISHNA O R	X	X	X	X	X	X	X	X
40	MEGHA RAJEEV	X	X	X	X	X	X	X	X
41	MUHAMMED IJAS	X	X	X	X	X	X	X	X
42	NANDU ANAND	X	X	X	X	X	X	X	X
43	NASRIN K MUHAMMED	X	X	X	X	X	X	X	X
44	N N NAZIHA FARZANA	X	X	X	X	X	X	X	X
45	NEENU M H	X	X	X	X	X	X	X	X
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47	NITHISH M P	X	X	X	X	X	X	X	X
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49	NOORUL ABZAR	X	X	X	X	X	X	X	X
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57	SRADHA SANTHOSH	X	X	X	X	X	X	X	X
58	SUMAYYA HUSAIN M A	X	X	X	X	X	X	X	X
59	SUNAINA SALIM	X	X	X	X	X	X	X	X
60	TINU YOHANNAN	X	X	X	X	X	X	X	X

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- ALUVA - 683 102





COURSE 8: FINANCIAL SERVICES

UNION CHRISTIAN COLLEGE, SCHOOL OF MANAGEMENT STUDIES

Notice

The department of MBA shall start Value – added courses

1. Financial Services

It shall be 40 contact hours course including a series of lectures and practical session

Students from the departments are requested to enrol themselves for the course and participate actively to make it a grand success.


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Head of the department

Janisben Bino



Proposal
Of
Value Added Course
On
1. Financial Services
For
MBA students
Offered by
School of management studies





Course Content:

Training in Financial Services (Hedge)	
Module 1	Introduction to financial services
Module 2	Investment management
Module 3	Financial markets and trading

Duration: 32 hours (6 days)

Eligibility: under graduation


Batch size: 60 students

Class Timing: 9:30am – 4:30am

Course coordinator: Chinnu Mary John

Faculty Member: Jomon joseph


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Head of the department

Janisben Bino



UNION CHRISTIAN COLLEGE, SCHOOL OF MANAGEMENT STUDIES

(VALUE ADDED COURSES)

Application form

Name of Student:

Class:

Admission Number:

Email Address:

Mobile Number:

Address for Communication:

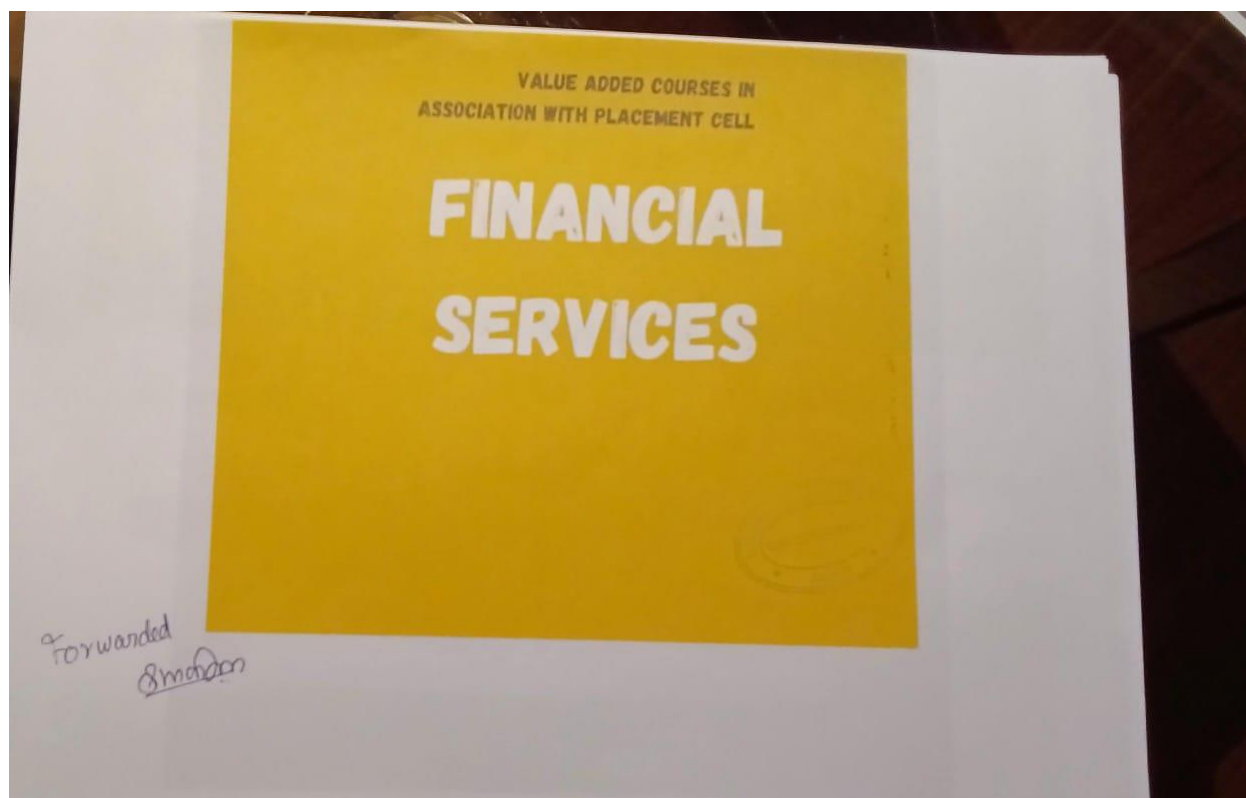
Course Name:

Signature:



Head of the Department

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14	ANJU K THANKACHAN	*Hedge. *Microsoft Excel *Analytics	Passed
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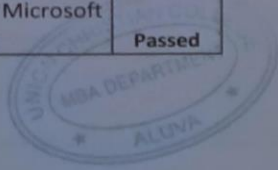


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SSR
5th CYCLE
2023

2021 admission students list

sino	Name	FN	AF	FN	AF	FN	AF	FN	AF
1	ABINA VALSALAN	X	X	X	X	X	X	X	X
2	AJAY DAVIS	X	X	X	X	X	X	X	X
3	AKSHARA SABU	X	X	X	X	X	X	X	X
4	AKSHAYA SANTHOSH	X	X	X	X	X	X	X	X
5	ALDRIN LAWRENCE	X	X	X	X	X	X	X	X
6	ALDRINA FRANCIS	X	X	X	X	X	X	X	X
7	ALFAS K A	X	X	X	X	X	X	X	X
8	ALFIN ANTO	X	X	X	X	X	X	X	X
9	AMALA JOSHNA	X	X	X	X	X	X	X	X
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13	ANJANA POULOSE	X	X	X	X	X	X	X	X
14	ANJU K THANKACHAN	X	X	X	X	X	X	X	X
15	ANJUMOL T R	X	X	X	X	X	X	X	X
16	ANNA SHIBU	X	X	X	X	X	X	X	X
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19	ARUN S	X	X	X	X	X	X	X	X
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22	ASWATHY SURESH	X	X	X	X	X	X	X	X
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29	DIXON BAIJU	X	X	X	X	X	X	X	X
30	FARZANA RAFEEQ	X	X	X	X	X	X	X	X
31	FASNA K N	X	X	X	X	X	X	X	X
32	FEMINA THOMAS	X	X	X	X	X	X	X	X
33	HARISHMA HARI	X	X	X	X	X	X	X	X
34	HIMA K H	X	X	X	X	X	X	X	X
35	HRIDHYA K J	X	X	X	X	X	X	X	X
36	JAYAKRISHNAN K	X	X	X	X	X	X	X	X

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SSR
5th CYCLE
2023

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57	SRADHA SANTHOSH	X	X	X	X	X	X	X	X
58	SUMAYYA HUSAIN M A	X	X	X	X	X	X	X	X
59	SUNAINA SALIM	X	X	X	X	X	X	X	X
60	TINU YOHANNAN	X	X	X	X	X	X	X	X

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