UNION CHRISTIAN COLLEGE
ALUVA-2

SSR 5th CYCLE 2023

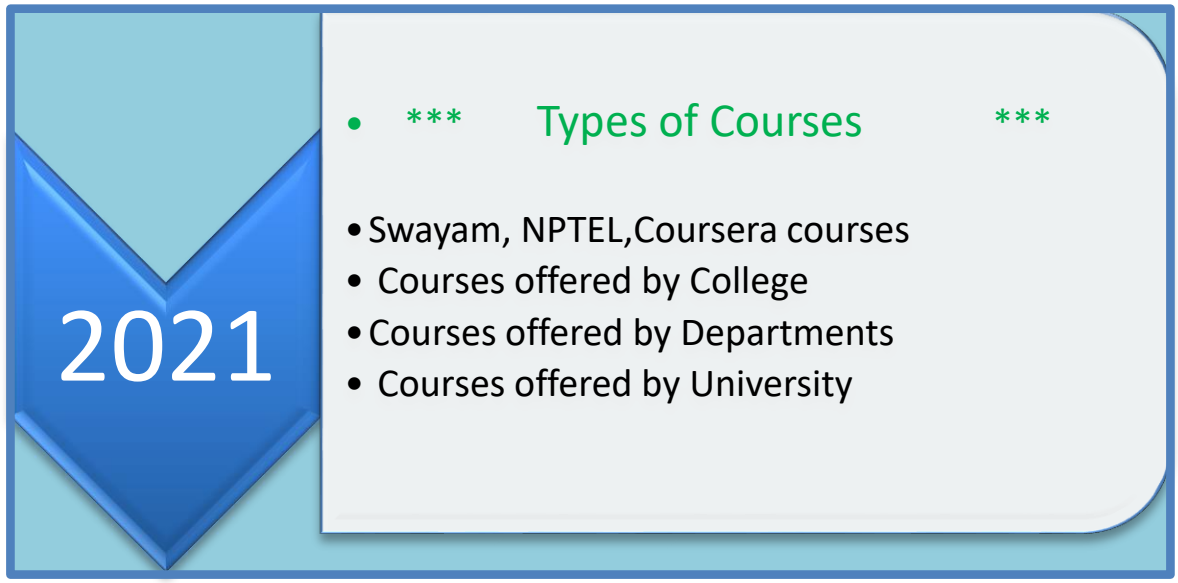
Criterion 1

1.2.1Academic Flexibility

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	35



VALUE ADDED / ADD ON / NPTEL / COURSE ERA COURSES 2021- 2022			
Sl No	**Name of Course**	**Offered by**	**Number of Students**
1	GENOME EDITING TOOLS IN MEDICINE & BIOTECHNOLOGY	NPTEL	23
2	HUMAN MOLECULAR GENETICS(NPTEL)	NPTEL	1
3	STRUCTURAL BIOLOGY	NPTEL	1
4	ELECTRIC VEHICLE-PART 1	NPTEL	1
5	THE JOY OF COMPUTING USING PYTHON(NPTEL)	NPTEL	3
6	INTRODUCTION TO INTERNET OF THINGS	NPTEL	1
7	SOFTWARE TESTING	NPTEL	7
8	PYTHON FOR DATA SCIENCE	NPTEL	15
9	CLOUD COMPUTING AND DISTRIBUTED SYSTEM	NPTEL	2
10	CLOUD COMPUTING	NPTEL	21
11	APPLIED DATA SCIENCE POWERED BY IBM (ADD ON COURSE)	Department	105
12	DATA ANALYTICS(ADD ON COURSE)	Department	60
13	MICROSOFT OFFICE MS EXCEL (ADD ON COURSE)	Department	36
14	INTRODUCTORY ORGANIC CHEMISTRY II	NPTEL	2

15	ANALYTICAL CHEMISTRY	NPTEL	5
16	ONE-WEEK STTP ON RECENT TRENDS IN RESEARCH ARTICLE WRITING	RSRI	1
17	HUMAN VALUES AND PROFESSIONAL ETHICS	College	1946
18	BIG DATA COMPUTING - ONLINE	NPTEL	1
19	DESCRIPTIVE STATISTICS WITH R SOFTWARE - ONLINE	NPTEL	1
20	INTRODUCTION TO OPERATING SYSTEM	NPTEL	1
21	THE POPULAR GOTHIC NOVEL - ONLINE	NPTEL	1
22	SHORT FICTION IN INDIAN LITERATURE - ONLINE	NPTEL	1
23	BASIC COURSE IN BIOMEDICAL RESEARCH - ONLINE	NPTEL	1
24	INTRODUCTORY ORGANIC CHEMISTRY II - ONLINE	NPTEL	1
25	PRINCIPLES OF MANAGEMENT - ONLINE	NPTEL	15
26	ENHANCING SOFT SKILLS AND PERSONALITY	NPTEL	2
27	OPERATIONS MANAGEMENT	NPTEL	1
28	DATA ANALYSIS FOR BIOLOGISTS	NPTEL	3
29	STRUCTURAL BIOLOGY	NPTEL	1
30	INTRODUCTION TO PROGRAMMING IN C	NPTEL	1
31	CERTIFICATION IN FINANCIAL SERVICES(HEDGE EQUITIES)	Department	57
32	INDOOR GARDENING AND POT MAKING	Department	10

33	RESEARCH METHODOLOGY AND CAREER SKILLS FOR PHYSICS STUDENTS	Department	22
34	AN INTRODUCTION TO ARTIFICIAL INTELLIGENCE	NPTEL	1
35	SCIENTIFIC COMPUTING USING MATLAB	NPTEL	1

COURSE 1:APPLIED DATA SCIENCE POWERED BY IBM (ADD ON COURSE)

UNION CHRISTIAN COLLEGE,ALUVA
School of Computer Applications

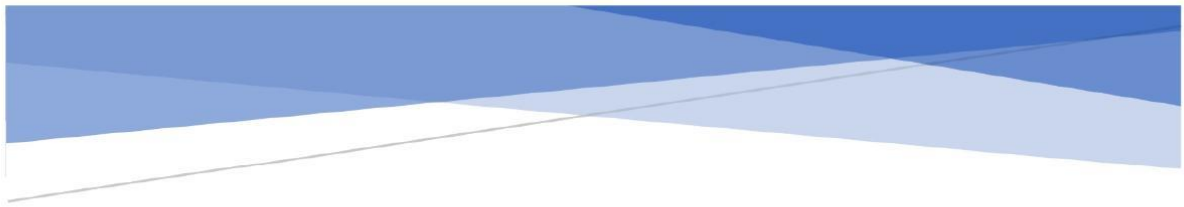
01/12/2021

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.

UNION CHRISTIAN COLLEGE SCHOOL OF COMPUTER APPLICATIONS ALUVA

HoD 01/12/2021



EXTERNSHIP PROGRAM

Contract Agreement

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

SMARTBRIDGE
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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:

a. Enrolling the students to the platform
b. Provide online training to the students
c. Assigning the mentors to the students
d. Enrolling students to IBM Academic Initiative
e. Reviewing the project deliverables of students
f. Reviewing the project documentation
g. Approve the projects.
h. E-Certificate generation & distribution
i. Generating interim & final reports of the program

Dr. A V Alex ,Director, MCA
Union Christian College

UNION CHRISTIAN COLLEGE MCA DEPARTMENT ALUVA

SmartBridge Educational Services Pvt. Ltd. Hyderabad

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2.2 COLLEGE'S ROLE & RESPONSIBILITIES

a. Assign a SPOC for the program
b. Enroll the students to the program
c. Confirm the training calendar
d. Coordination with SmartBridge team
e. Coordination with students for training program
f. Monitor the progress at each stage
g. Generate feedback reports from students
h. Coordinate with accounts for payments

3. COMMERCIALS & PAYMENT TERMS:

a. 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.

b. 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.

c. 30% of overall Invoice amount will be settled before the start date of program.
d. 40% will be settled immediately after completion of training sessions (3 Weeks)
e. 30% Balance amount will be cleared immediately after project development.
f. Payment can be done via NEFT /RTGS based on the Invoice generated

4. GENERAL TERMS & CONDITIONS:

a. Students with successful project submissions only will receive the certificates.

b. Entire program will be organized remotely via Zoom Meetings.

c. Students must complete the e-learning courses assigned to them.

d. Students must register in prior for the technical bootcamps as per the schedule.

e. Students must complete the projects assigned to them without fail.

f. Only e-certificates will be provided.

g. The payments are non-refundable

Dr. A V Alex ,Director, MCA
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UNION CHRISTIAN COLLEGE MCA DEPARTMENT ALUVA

SmartBridge Educational Services Pvt Ltd Hyderabad

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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.

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

Dr. A V Alex ,Director, MCA
Union Christian College

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Annexure – I (Externship Program)

1. Introduction:

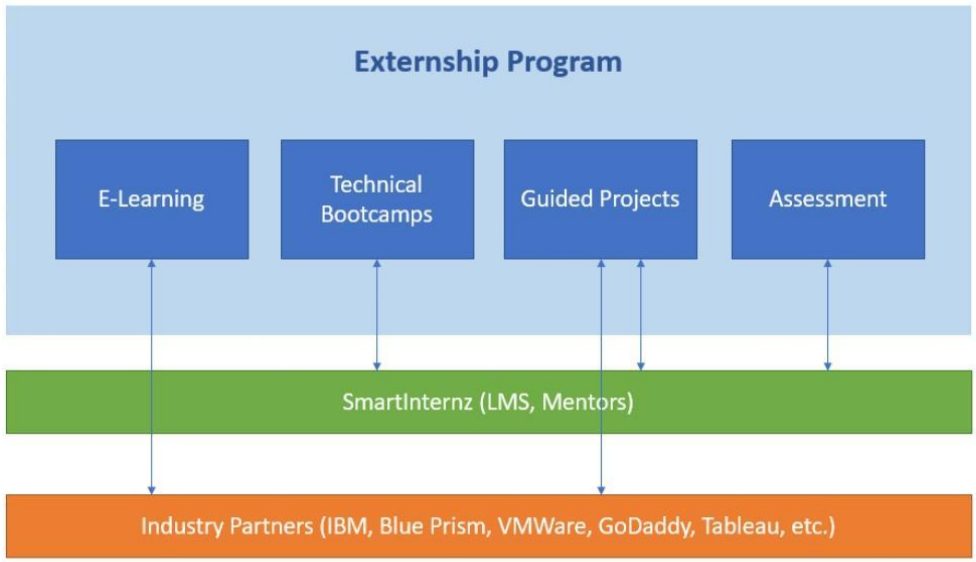
Externship is an experiential learning opportunity, similar to internships but generally shorter, provided by partnerships between educational institutions and employers to give students short practical experiences in their field of study.

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:

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

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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.

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

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Union Christian College

UNION CHRISTIAN COLLEGE MCA DEPARTMENT ALUVA

SmartBridge Educational Services Pvt. Ltd. Hyderabad

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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	AneenaJoshy
203242210179	Aneesha Francis
203242210180	Aneeta K C
203242210181	Angel Thobias
203242210182	Anikmon Davis
203242210183	AnilamolShibu
203242210184	AnjanaUnnikrishnan
203242210185	Anjitha K A
203242210186	Anju Alias
203242210187	Anna Alex

University Roll No	Students Name
203242210188	Anna Joseph
203242210189	Anugrah N P
203242210190	AnushaSunildath
203242210191	Ashmina K L
203242210192	AshnaAnto
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	Githuvarghese
203242210211	Greeshma T Nath
203242210212	Jainy Merry Jaison
203242210213	Jerry John
203242210214	Jibiya Jacob
203242210215	JijimolJohny
203242210216	Jismon Roy
203242210217	JithurajRaveendran
203242210218	Jitty Thomas
203242210219	Jofiya Johnson
203242210220	Joseph Bejoy P J
203242210221	Joseph P.S
203242210223	JubnaBeegum O S
203242210225	Kannan A G
203242210226	LatteeshaPoulose
203242210227	Lisha M J

University Roll No	Students Name
203242210228	M S Neeshma
203242210229	MaheswaryKumariBalayar
203242210231	Manuprasad M N
203242210233	Milka Maria George
203242210234	NasmiyaNazar P
203242210235	Navaneeth N K
203242210236	Neena Raj
203242210237	NeenaShaji
203242210238	NegilBabu
203242210239	NibasNazeem
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	RajalakshmiGopinathan
203242210248	Renjitha R
203242210249	Riya Kunjachan
203242210250	Robin Babu
203242210252	Sameena M N
203242210253	Sandra Peter
203242210254	ShafiyaShahi
203242210256	Sivapriya P V
203242210257	Sneha James
203242210259	Sona Ashok
203242210260	Sona P S
203242210261	SreekanthSasi
203242210262	Sreelakshmi AS
203242210263	SreelakshmiGopinathan
203242210264	Sreelakshmi K A
203242210265	Sreelakshmi M P
203242210267	Tharun T

University Roll No	Students Name
203242210268	ThattaruparambilAparnaVenu
203242210269	UnnimayaUnnikrishnan
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 : SrikanthKummari

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
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
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29	MCA 20/A Batch	NOURIN T NAVAS	nourinhaseena@gmail.com		34	34	0
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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	VIJEESH SM	smvijeesh57@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
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
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 JOSHY	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

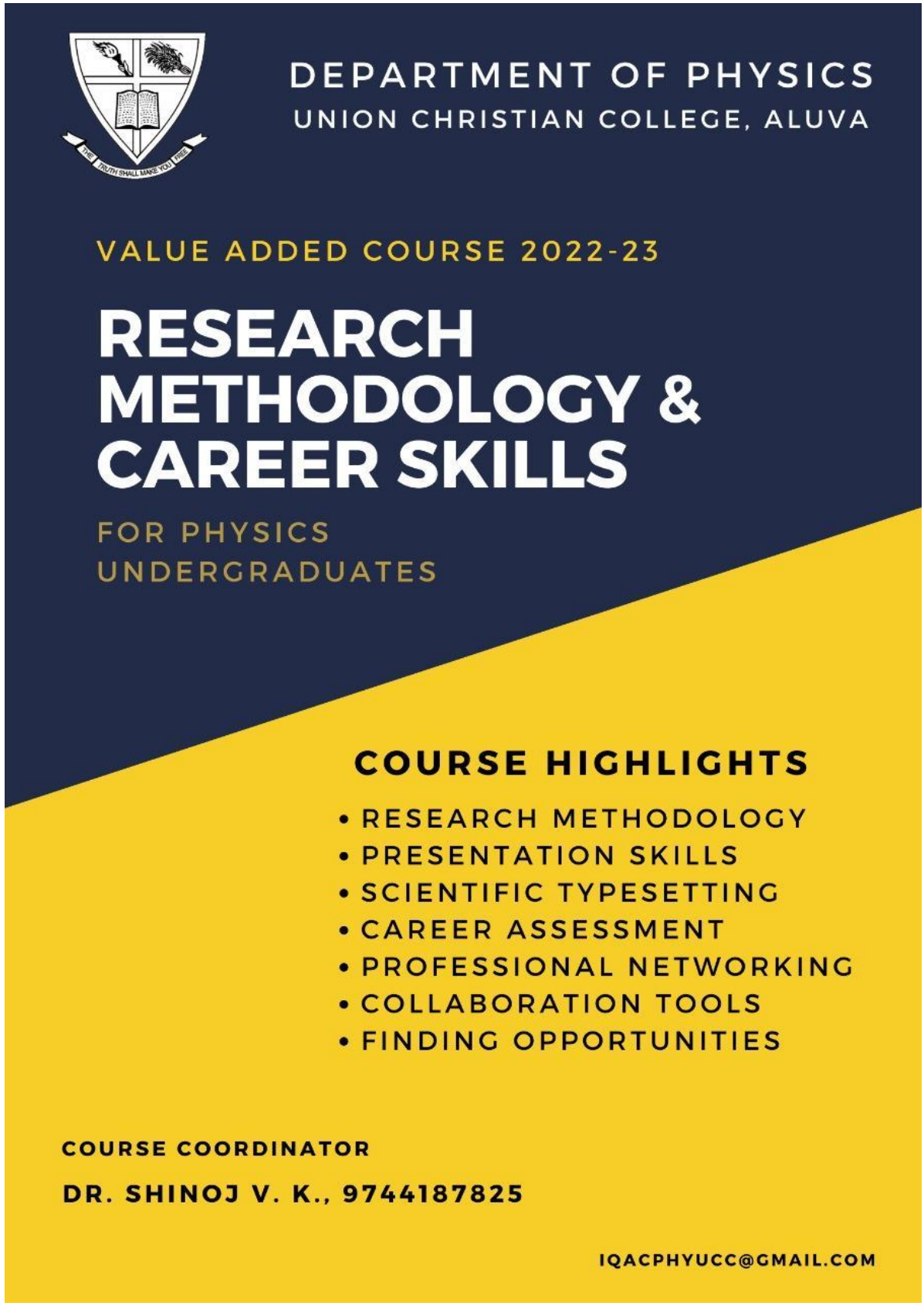
Value Added Course

PHYRMCS 01

Research methodology & Career Skills for Physics Students

Department of Physics

Name of faculty	No of hours
Dr Shinoj V K	10
DrPramod Dominic	10
DrReshmi 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 Physicsstudents

(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, 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.

UNION CHRISTIAN COLLEGE, ALUVA

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 5th Semester & PG 1st 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. Istsem	220011014450
Abhijith C B	B.Sc. Vth sem	200021037104
KavyaUnnikrishnan	M.Sc. Istsem	220011014454
Aleena g thelakkattu	M.Sc. Istsem	220011014448
HarithaDharman	M.Sc. Istsem	220011014453
Surya K G	M.Sc. Istsem	220011014459
FezinPuthanpurayil	B.Sc. Vth sem	200021037139
Athul K N	B.Sc. Vth sem	200021037109
Gouthamkrishnan	B.Sc. Vth sem	200021037111
Deteenachacko	B.Sc. Vth sem	200021037130
George c reji	B.Sc. Vth sem	200021037110
Rakesh Ramachandran	B.Sc. Vth sem	200021037140
NaseehYousuf	B.Sc. Vth sem	200021037138
Melwin T Joshy	B.Sc. Vth sem	200021037136
Liyana P M	M.Sc. Istsem	220011014455
UmmuSumayya TM	M.Sc. Istsem	220011014460
A ANAGHA	B.Sc. Vth sem	200021037122
V.B.SIMI	M.Sc. Istsem	220011014458
HARITHA DHARMAN	M.Sc. Istsem	220011014453
Anjana N M	M.Sc. Istsem	220011014449
FATHIMA JUMNA	M.Sc. Istsem	220011014451
Gopika N R	M.Sc. Istsem	220011014452

Topic: Research Methodology

SI No.	Admission Number	Name	Attendance 10-12-21	16-12-21	14-1-22
1	H0206	A Anagha	✓	✓	✓
2	G9780	Abhijith CB	✓	✓	✓
3	H0168	Athul K N	✓	a	✓
4	G9775	Deteena 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 require 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:

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

		Preparation of pot: pot varnishing, designing Preparation of potting mixture Pot filling and planting ornamentals		

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

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-2, ERNAKULAM

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 :

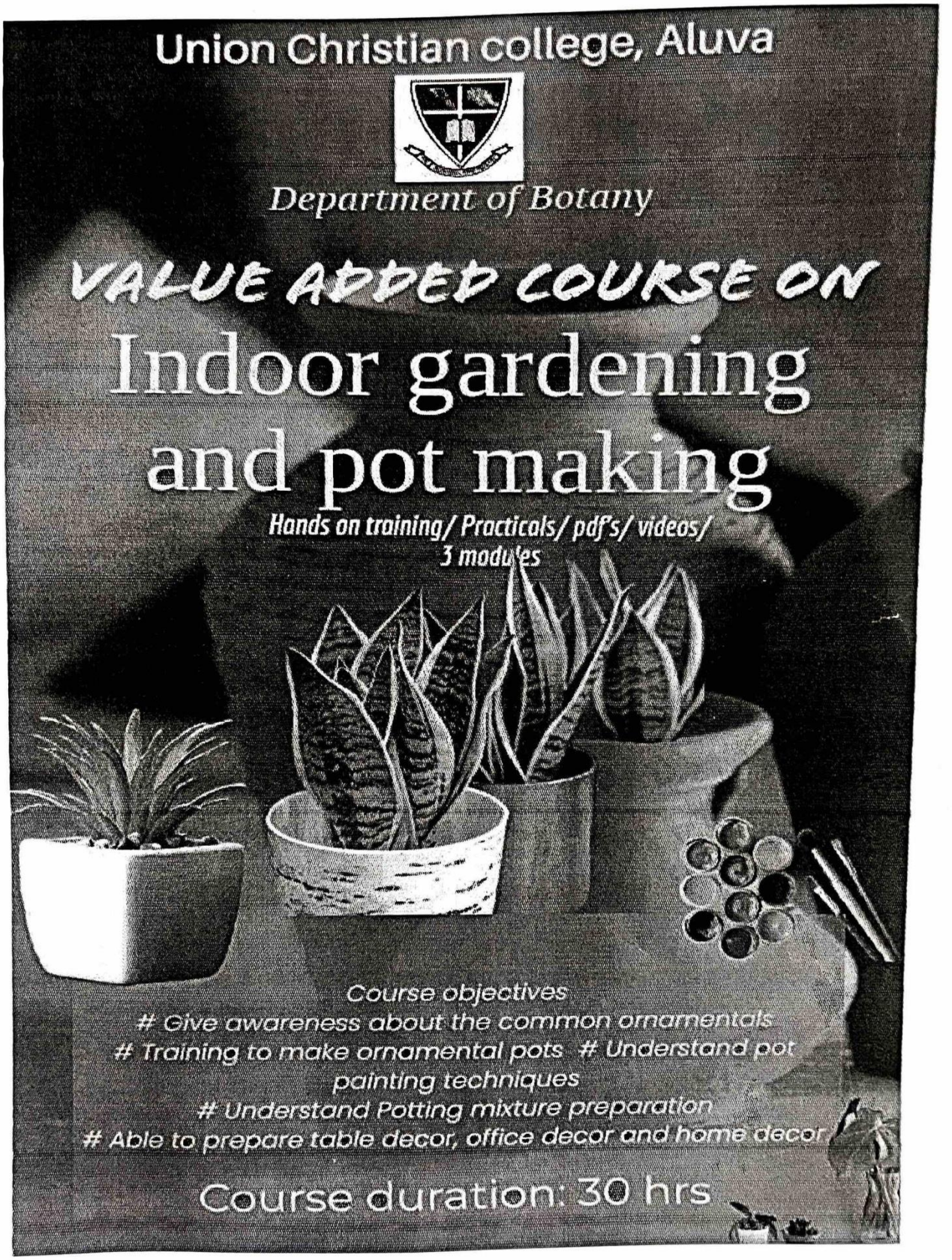
Email :

Mobile No :

Address for communication:

Course Name :

Signature :


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

Head of department

Dr. M Anilkumar

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

Dep. of Botany

UNION CHRISTIAN

CLASS REGSITER OF ATTENDANCE

Date of certificate 15/09/22
Class Issued Group

Indoor Gardening and Pot making

Sl. No.	NAMES	Pd. No.	1 22-07-22	2 26-5	3 30-5	4 02-08	5 06-08	6 09-08	7 11-08	8 16-08	9 18-08	10 20-08	11 24-08
1.	Aarya . C.S	H0255											
2.	Afra . V.A	H0271											
3.	Akhinu . C	H0170											
4.	Akshaya . O.S	H0242											
5.	Anagha . M.M	H0230											
6.	Anandhu Krishna . K.S	H0080											
7.	Aneena John	H0036											
8.	Aneesha . P.B	H0246											
9.	Anna Saju	H0140											
10.	Anupama . K.A	G9854											
11.	Aparna . E.S	G9753											
12.	Asiya . M.A	H0081											
13.	Brightly Sebastian	G9706											
14.	Chithra . S	H0185				absent							
15.	Devika . K.A	H0177											
16.	Eldhose . V.K	G9962											
17.	Elsha . M. Elias	G9960											
18.	Fathima . O.A	H0077											
19.	Manu Sajeevan				absent								
20.	Mizna . M.A	H0078											
21.	Mohammed Arif . P.T				absent								
22.	Muhsina Muhammed	H0214											
23.	Nabeesathul Misiriya	H0272											
24.	Nandana Ramakrishnan	H0182											
25.	Nikhitha Lal	H0028											
26.	P.S. Prithviraj	H0146											
27.	Poornendu R. Acharya	H0271											
28.	Prathewsh . M.P						absent						
29.	R. Kailaash	H0107											
30.	Rose Ann Mary Paul	G9961											
31.	Sreya R. Pai	H0082											
32.	Sreelakshmi . N.S	H0003											
33.	Sumayya . T.A	H0175											
34.	Vishnudas . T.A	G9833	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab

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

COURSE 4:GENE EDITING TOOLS IN MEDICINE & BIOTECHNOLOGY

Union Christian College, Aluva
THE TRUTH SHALL MAKE YOU FREE

&

Indiana University of Pennsylvania

23rd OCT - 19th Dec 2021

Online

Certificate Course

on

Gene Editing Tools in

Medicine & Biotechnology

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.

FACULTY INSTRUCTOR:

N. Bharathan PhD, Professor & Chair Biology IUP, Indiana, PA 15705, USA.

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

Dr. Sareen Sarah John
Head of the Department
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 I—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/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

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 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

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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

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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 Colle
Aluva

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

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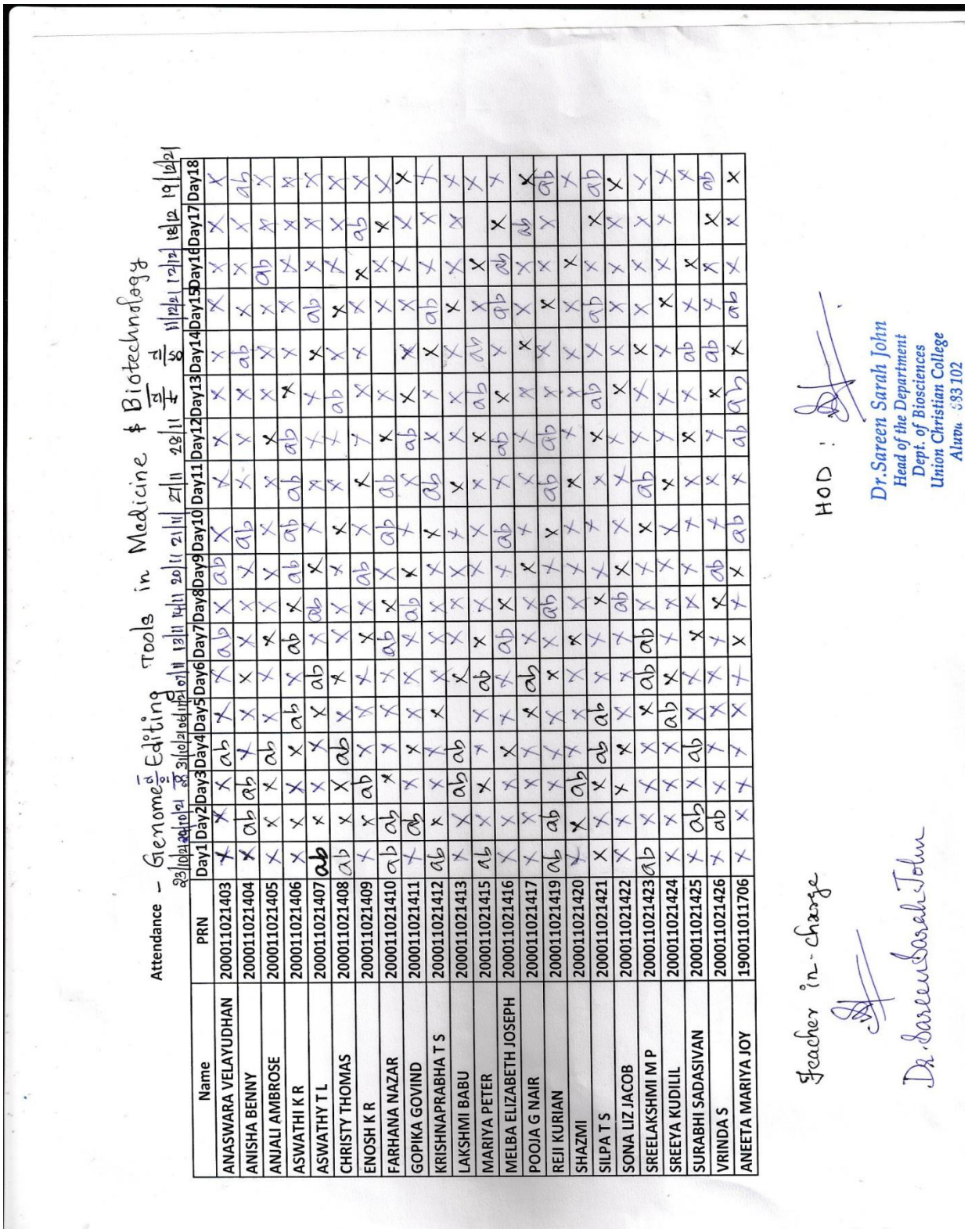

Attendance - Genome Editing Tools in Medicine & Biotechnology

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	ab	X	X	ab	X	ab	X	X	X	X	X	X	X	X	X
ANISHA BENNY	200011021404	X	ab	ab	X	X	X	X	X	X	ab	X	X	X	ab	X	X	X	ab
ANJALI AMBROSE	200011021405	X	X	X	ab	X	X	X	X	X	X	X	X	X	X	X	ab	X	X
ASWATHI K R	200011021406	X	X	X	X	ab	X	ab	X	ab	ab	ab	ab	X	X	X	X	X	X
ASWATHY T L	200011021407	ab	X	X	X	X	ab	X	ab	X	X	X	X	X	X	ab	X	X	X
CHRISTY THOMAS	200011021408	ab	X	X	ab	X	X	X	X	X	X	X	X	ab	X	X	X	X	X
ENOSH K R	200011021409	X	X	ab	X	X	X	X	X	ab	X	X	X	X	X	X	X	ab	X
FARHANA NAZAR	200011021410	ab	ab	X	X	X	X	ab	X	X	ab	ab	X	X		X	X	X	X
GOPIKA GOVIND	200011021411	X	ab	X	X	X	X	X	ab	X	X	X	ab	X	X	X	X	X	X
KRISHNAPRABHA T S	200011021412	ab	X	X	X	X	X	X	X	X	X	ab	X	X	X	ab	X	X	X
LAKSHMI BABU	200011021413	X	X	ab	ab		X	X	X	X	X	X	X	X	X	X	X	X	X
MARIYA PETER	200011021415	ab	X	X	X	X	ab	X	X	X	X	X	X	ab	X	X	X		X
MELBA ELIZABETH JOSEPH	200011021416	X	X	X	X	X	X	ab	X	X	ab	X	ab	X	X	X	ab	X	X
POOJA G NAIR	200011021417	X	X	X	X	X	ab	X	X	X	X	X	X	X	X	X	X	ab	X
REJI KURIAN	200011021419	ab	ab	X	X	X	X	X	ab	X	X	ab	ab	X	X	X	X	X	ab
SHAZMI	200011021420	X	X	ab	X	X	X	X	X	X	X	X	X	X	X	X	X		X
SILPA T S	200011021421	X	X	X	ab	ab	X	X	X	X	X	X	X	ab	X	ab	X	X	ab
SONA LIZ JACOB	200011021422	X	X	X	X	X	X	X	ab	X	X	Y	X	X	X	X	X	X	X
SREELAKSHMI M P	200011021423	ab	X	X	X	X	ab	ab	X	X	X	ab	X	X	X	X	X	X	X
SREEYA KUDILIL	200011021424	X	X	X	X	ab	X	X	X	X	X	X	X	X	X	X	X	X	X
SURABHI SADASIVAN	200011021425	X	ab	X	X	ab	X	X	X	X	X	X	X	X	ab	X	X		X
VRINDA S	200011021426	X	ab	X	X	X	X	X	X	ab	X	X	X	X	ab	X	X	X	ab
ANEETA MARIYA JOY	190011011706	X	X	X	X	X	X	X	X	X	ab	X	ab	ab	X	ab	X	X	X

Teacher in-charge

Dr. Sareen Sarah John

HOD

Dr. Sareen Sarah John
Head of the Department
Dept. of Biosciences
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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.

Staff Attendance Register

19-20 | 20-21 | 21-22 | For 20 20

Sl No.	Designation	NAME	Days / Date	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	CASUAL LEAVE: IN THE MONTH	CASUAL LEAVE: PREVIOUS	CASUAL LEAVE: TOTAL	REMARKS
1		AJAY RAMESH	M	X	X	X	X	A	X	X	X	X	X	X	X	X	A	X	X	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X				
2		ALICIA JOSEPH	E	X	X	X	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				
3		ANAGHA B	M	X	A	X	X	A	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				
4		ANAGHA DAVIS	E	X	X	X	X	X	X	X	X	A	X	X	A	X	X	A	X	X	X	A	X	X	X	X	A	X	X	X	A	X	X	X				
5		ANJU SIVAN	M	X	X	A	X	X	X	X	X	X	A	X	A	X	X	X	X	A	A	X	X	X	X	X	X	Y	X	X	X	X	X	X				
6		ANN MARIYA CF	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	X				
7		ANN MARY	M	X	A	A	X	X	X	X	X	A	X	X	X	A	X	X	X	X	X	A	X	X	A	X	X	X	X	X	X	X	X	X				
8		ANUSREE ANILKUMAR	E	X	X	X	X	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X	A	X	X	X	X	X	A	X	X	X	X	X				
9		ARATHY SURENDRAN	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	X				
10		ASWIN SASI	E	A	X	X	X	X	A	X	X	X	A	X	X	X	X	A	X	X	X	A	X	A	X	X	X	A	X	X	X	X	X	X				
11		BODHI	M	X	X	X	X	X	X	X	X	X	X	A	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
12		CHRISTY NEELIKATTU GIGI	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	X				
13		FEBA SABU	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	X				
14		GUPTHA SAJU	E	X	A	A	X	X	X	X	X	A	X	X	X	A	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
15		GOWRY KALYANI	M	X	X	X	X	A	A	X	X	X	X	A	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	A	A	X	X				
16		JEEVAN C	E	X	X	X	X	X	X	X	X	X	X	X	X	A	A	A	X	X	X	X	A	X	X	A	X	X	X	X	X	X	X	X				
17		JOYAL BASIL	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	X				
18		K.A SNEHA SELIN	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	X				
19		KENNETH JOHN	M	X	X	X	A	X	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				
20		MAHIMA ANN SHAJI	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	X				
21		MALAVIKA SHIJU	M	X	X	X	X	X	A	X	X	X	X	X	X	X	X	X	A	X	X	X	X	X	X	X	X	X	X	A	X	X	X	X				
22		MARIYA SHIBU	E	X	X	X	X	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				
23		MEGHA ELZA CHERIAN	M	X	X	X	X	X	X	X	X	X	X	X	X	A	A	A	A	X	X	X	X	A	X	A	X	X	X	A	X	X	X				
24		NEENA SUSAN 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	X				
25		NEHA ANIL	M	X	X	X	X	X	A	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				
26		NIKHITHA SAJI	E	X	X	A	X	X	X	X	X	X	X	X	A	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
27		NIMISHA GOPAN	M	X	X	X	X	X	X	X	X	X	X	X	X	A	X	X	A	X	X	A	X	A	A	A	X	A	X	X	X	X	X	X				
28		PARVATHI 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	X				
29		PIYA S BAIJU	M	X	X	X	X	X	A	X	X	X	A	X	X	A	X	X	X	A	X	X	A	X	X	A	X	X	A	X	X	A	X	X				
30		SANDRA ULAHANNAN	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	X				
31		SHOBA PADMA DAS	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	X				
32		SNEHA M	E	X	A	X	X	X	A	X	X	X	X	A	X	A	X	X	X	X	X	A	X	A	X	X	X	X	X	X	X	X	X	Y				

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33		SOORAJ T.C	M	X	X	X	X	X	X	X	X	A	A	X	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	X	A	X	A	X	X	X	X	X	X	X	X				
35		UMAIR E	M	X	A	X	X	X	X	X	X	X	X	A	A	X	X	X	X	X	X	A	X	X	X	A	X	X	X	X	X	X	X	X				
36		AARYA R NAIR	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	X				
37		AKSA P T	M	A	X	X	X	A	X	X	X	X	A	X	A	X	X	X	A	X	X	X	A	X	X	A	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	X				
39		ANJIMA 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	X				
40		ARJUN 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	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	X				
42		ASHITHA P R	E	X	A	X	A	X	X	X	X	X	X	A	X	A	X	X	X	A	X	A	X	A	X	X	X	X	X	X	X	X	X	X				
43		ASWATHY MANIKUTTAN	M	A	A	A	X	X	X	X	X	X	X	X	A	X	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	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	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	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	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	X				
49		DIYA ANNA 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	X				
50		FAIZA 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	X				
51		GOKUL KRISHNA P.D	M	X	X	X	X	A	X	X	X	A	X	X	A	X	X	X	A	X	X	X	A	X	X	X	X	+	A	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	X				
53		INDIYA SUDHEESH	M	X	X	X	X	X	X	A	X	X	X	X	X	X	A	X	X	X	X	A	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	X				
55		RAHANA P.S	M	X	A	X	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	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	X				
58		SAHADIYA 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	X				
59		SALMAN FARIS MA	M	X	X	X	X	X	A	X	X	A	X	X	X	A	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	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
			M																																		
			E																																		
			M																																		
			E																																		

UNION CHRISTIAN COLLEGE, ALUVA

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)

Accredited with 'A' Grade (IV Cycle) by the NAAC

CERTIFICATE

This is to certify that Mr./Ms. ABHIRAMI K S

of BA Economics programme has successfully completed the 30-hour value added course titled "Human Values and Professional Ethics" offered by Union Christian College with A Grade in 2021-2022

Co-ordinator

Principal

Aluva

15-03-2022

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

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

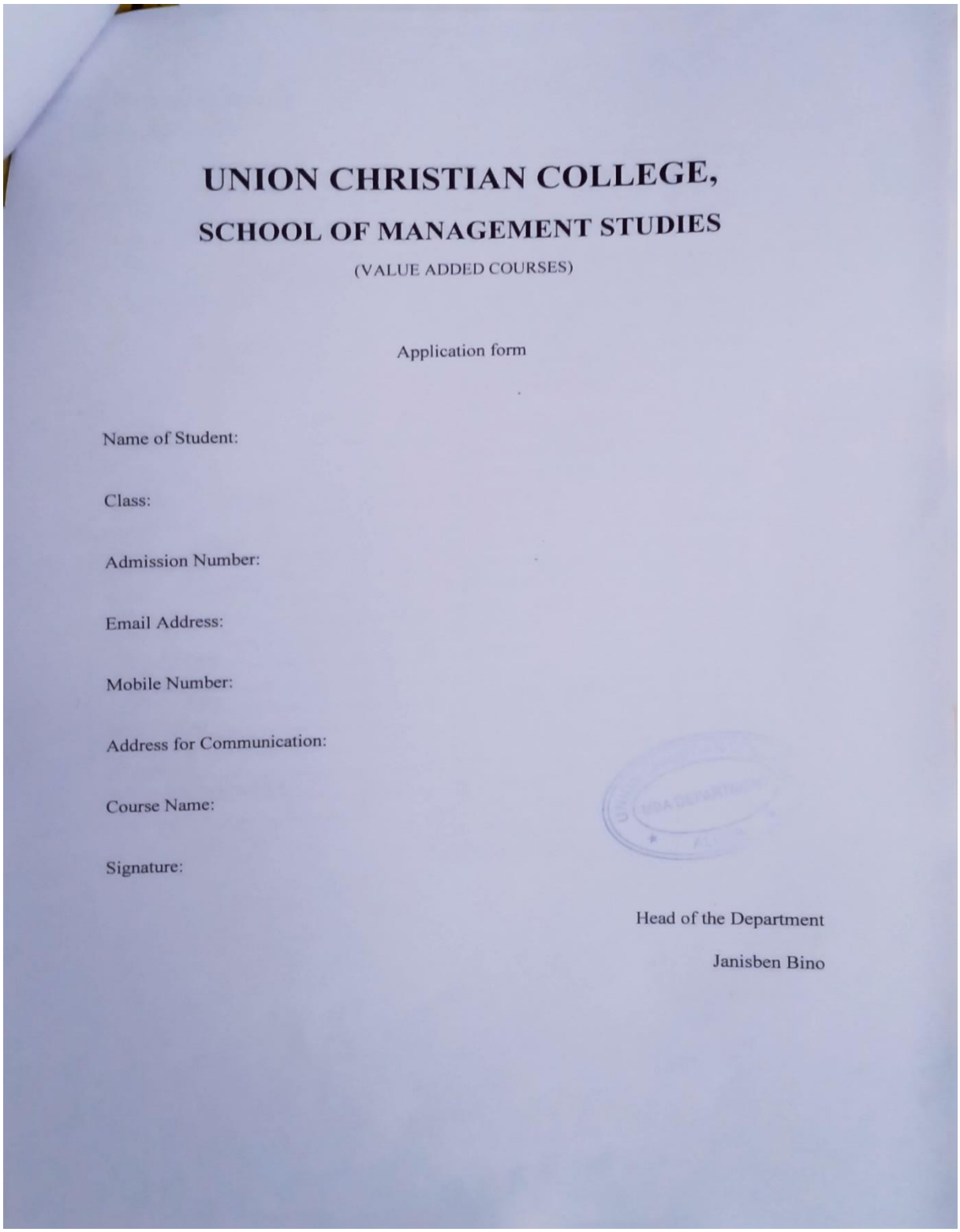
Course coordinator: Chinnu Mary John

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:

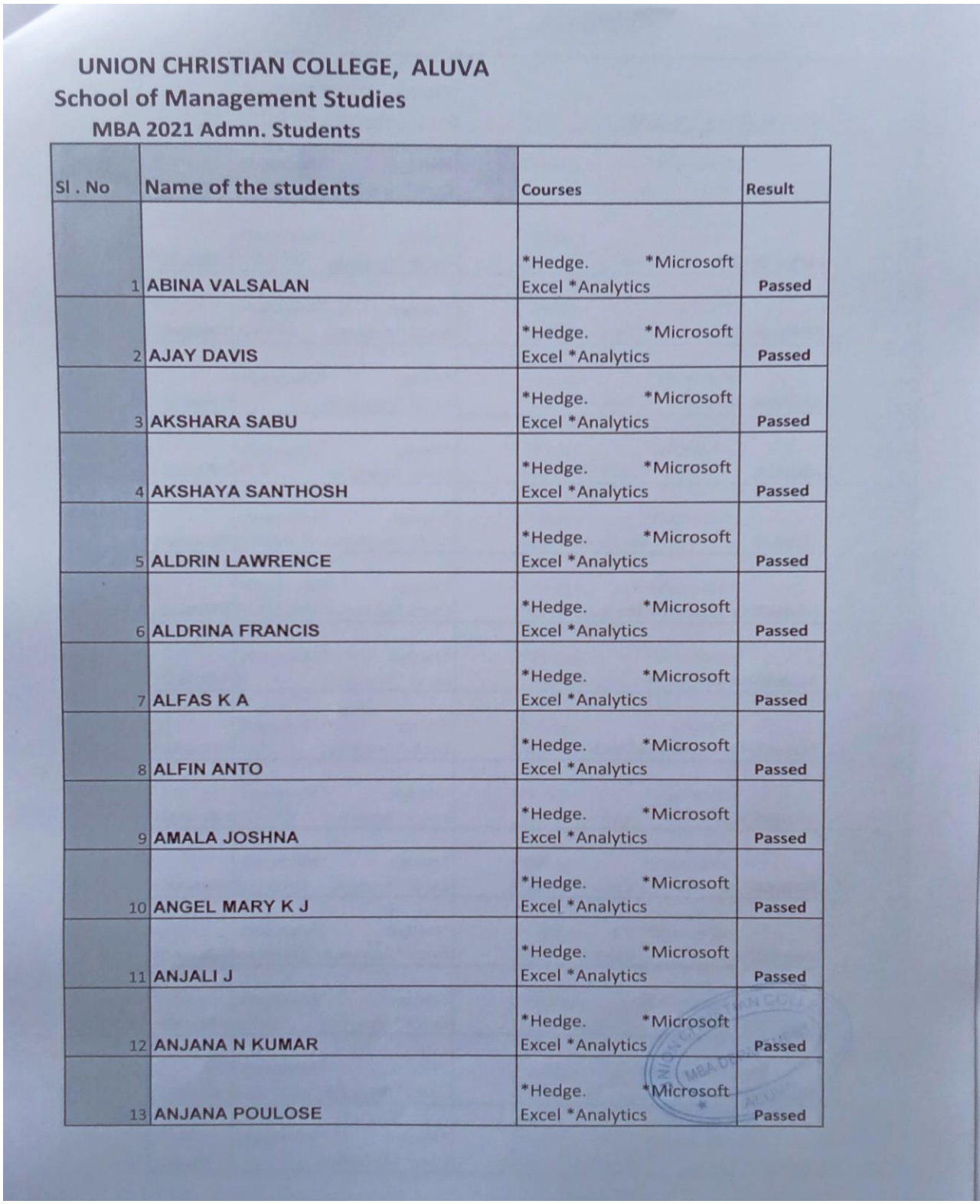
Address for Communication:

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
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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
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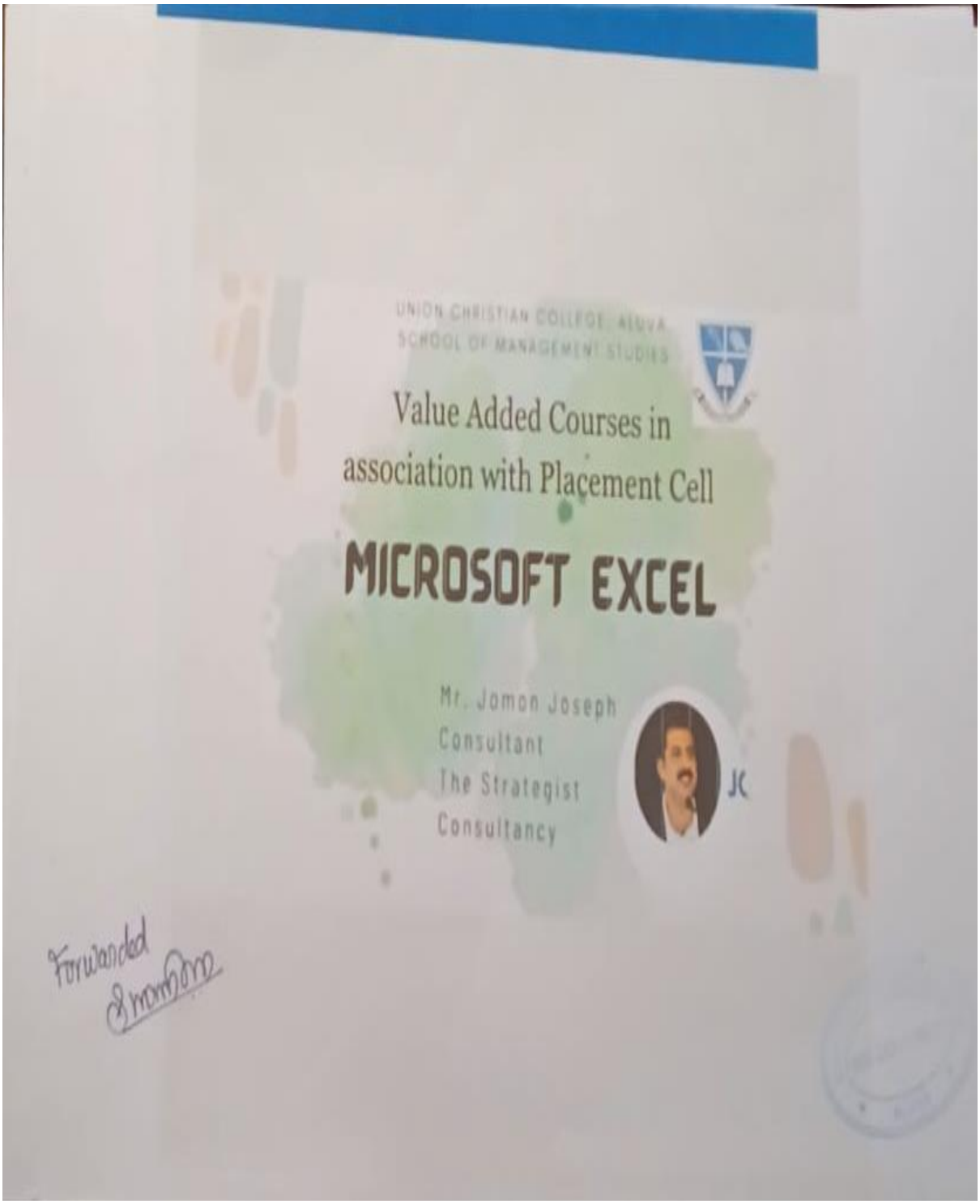
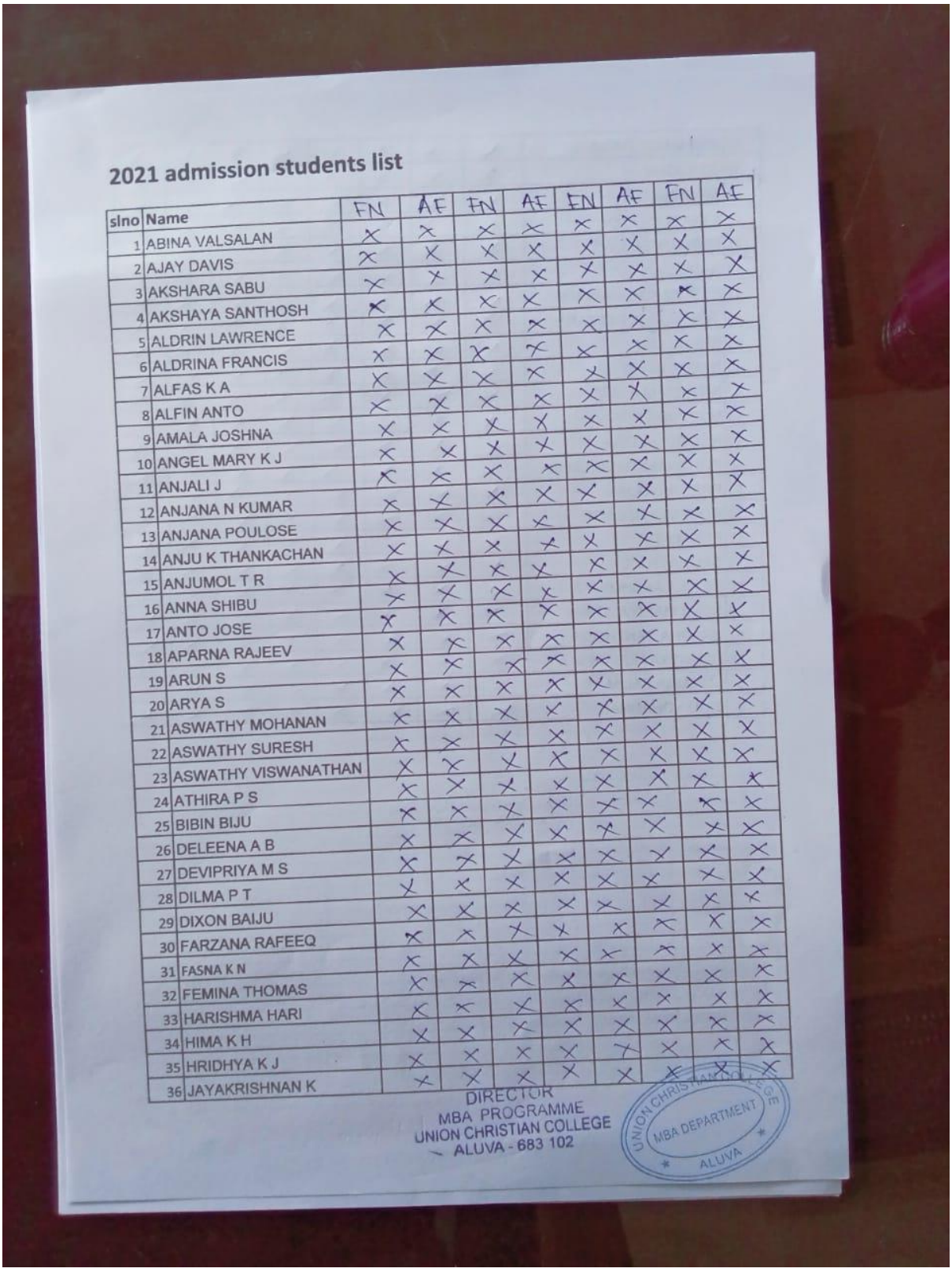
53	ROSMY T P	*Hedge. *Microsoft Excel *Analytics	Passed
54	SALIHATH K L	*Hedge. *Microsoft Excel *Analytics	Passed
55	SETHULAKSHMY P N	*Hedge. *Microsoft Excel *Analytics	Passed
56	SOYA MARIYA JOSHY	*Hedge. *Microsoft Excel *Analytics	Passed
57	SRADHA SANTHOSH	*Hedge. *Microsoft Excel *Analytics	Passed
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


UNION CHRISTIAN COLLEGE, ALUVA
SCHOOL OF MANAGEMENT STUDIES
Value Added Courses in
association with Placement Cell
MICROSOFT EXCEL
Mr. Jomon Joseph
Consultant
The Strategist
Consultancy
Forwarded



2021 admission students list

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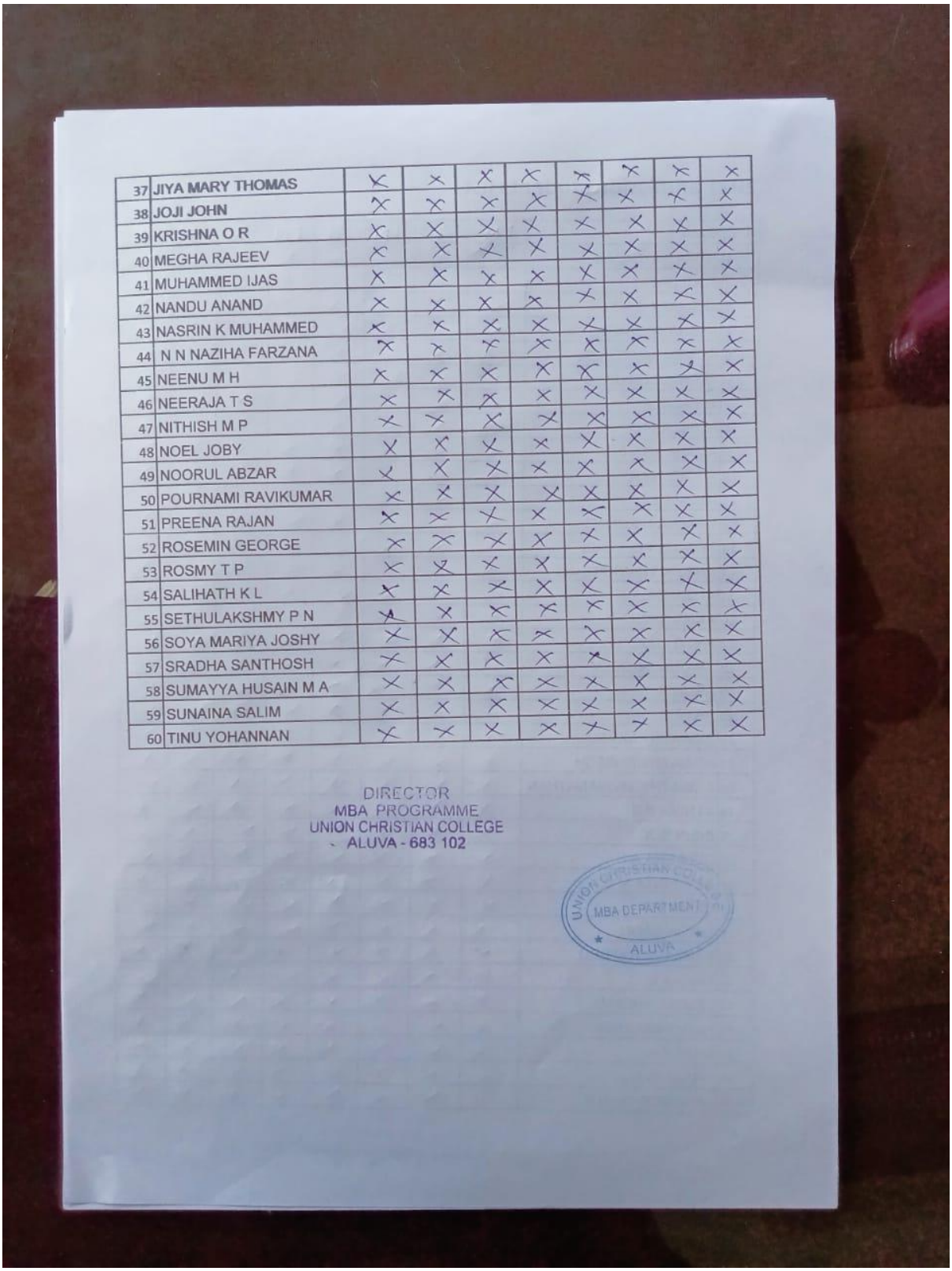
12	ANJANA N KUMAR								
13	ANJANA POULOSE								
14	ANJU K THANKACHAN								
15	ANJUMOL T R								
16	ANNA SHIBU								
17	ANTO JOSE								
18	APARNA RAJEEV								
19	ARUN S								
20	ARYA S								
21	ASWATHY MOHANAN								
22	ASWATHY SURESH								
23	ASWATHY VISWANATHAN								
24	ATHIRA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

DIRECTOR
MBA PROGRAMME
UNION CHRISTIAN COLLEGE
ALUVA - 683 102

UNION CHRISTIAN COLLEGE
MBA DEPARTMENT
ALUVA



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

DIRECTOR
MBA PROGRAMME
UNION CHRISTIAN COLLEGE
ALUVA - 683 102

UNION CHRISTIAN COLLEGE MBA DEPARTMENT ALUVA

Microsoft Office Specialist

2020 batch.

Anand Joy

has successfully completed the requirements to be recognized as a Microsoft Office Specialist

Excel Associate

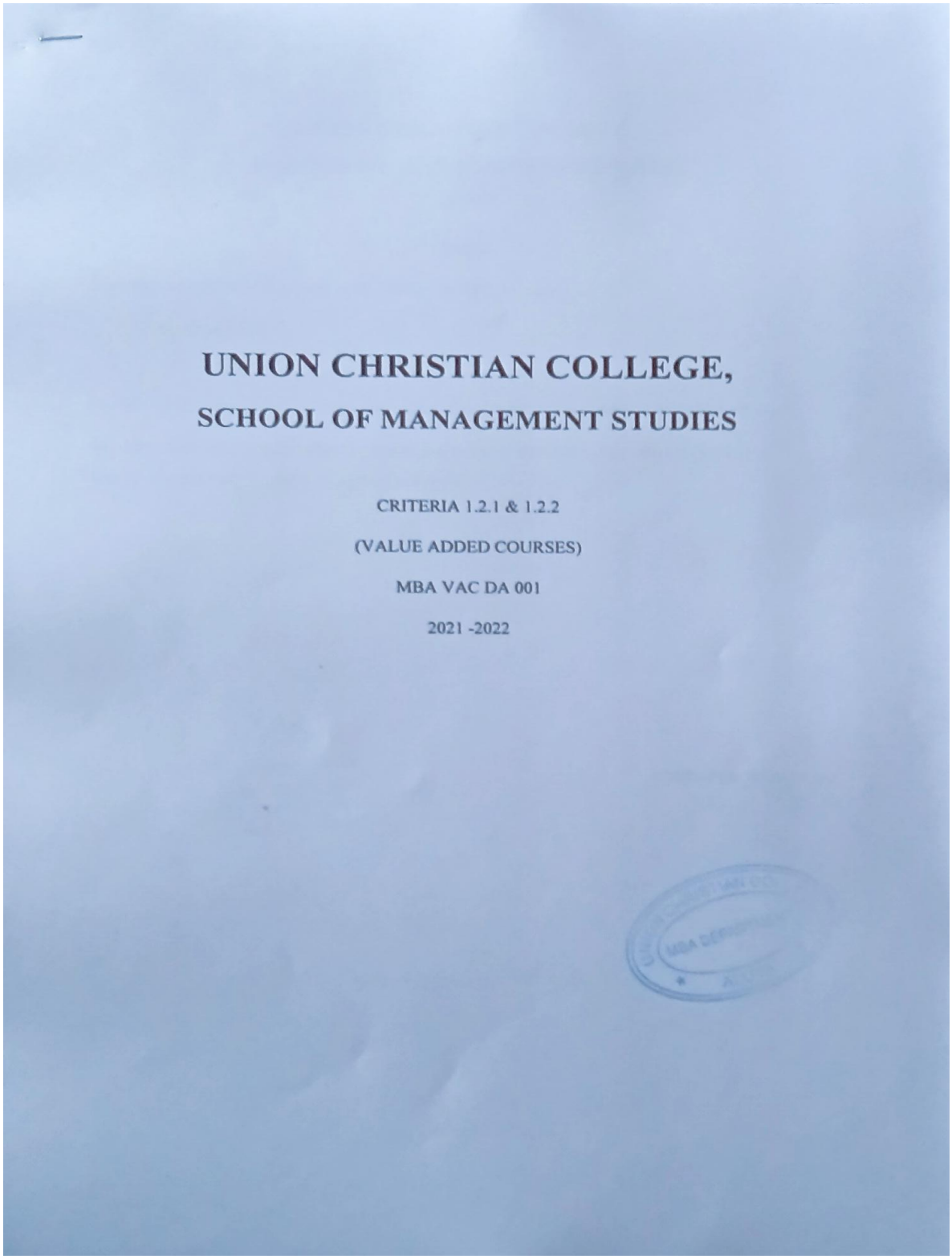
Excel and Excel 2019

Date of achievement: April 5, 2022
verify.certiport.com: w9T6V-H9mP

Satya Nadella
Chief Executive Officer

Microsoft

COURSE 7:DATA ANALYTICS



UNION CHRISTIAN COLLEGE,

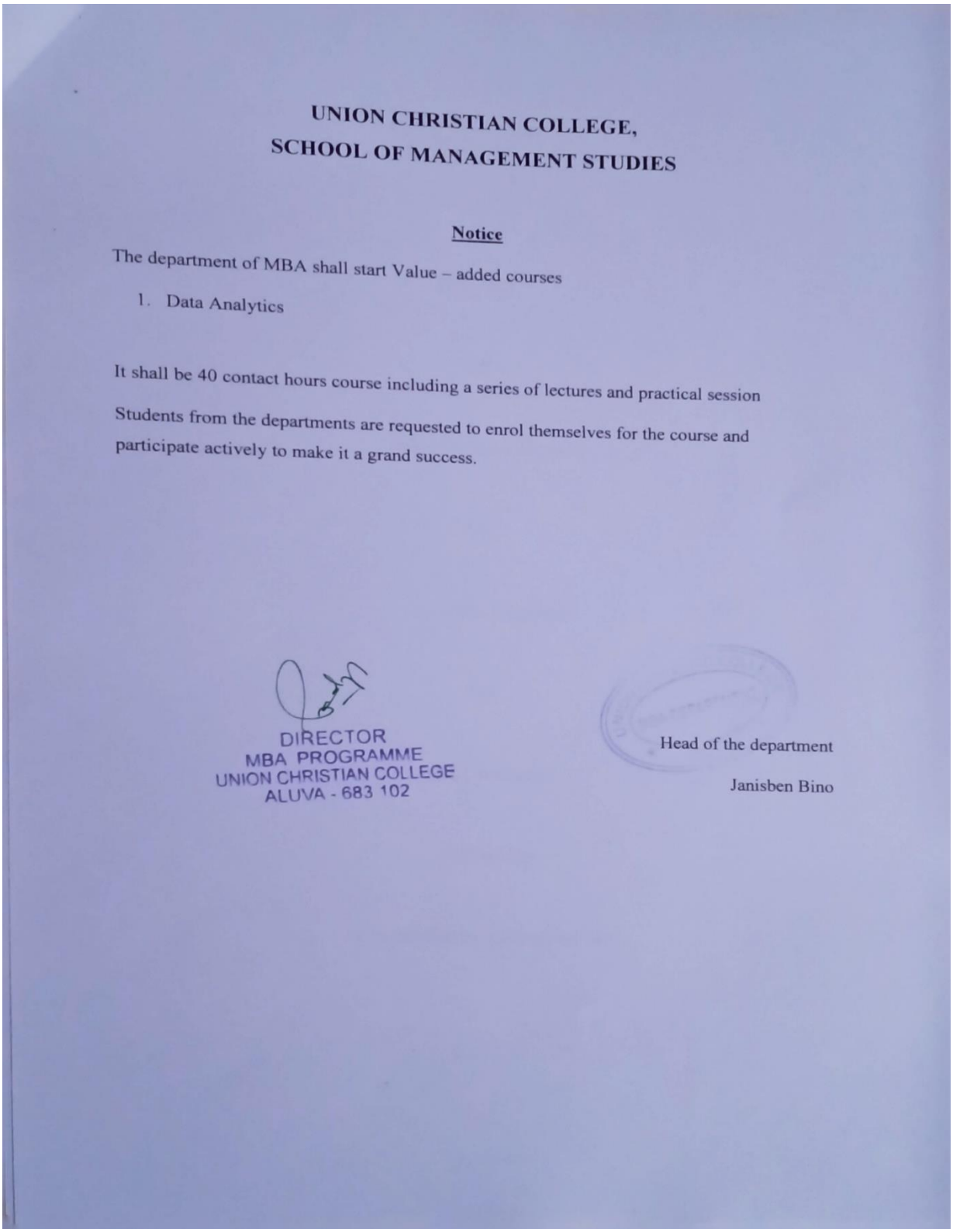
SCHOOL OF MANAGEMENT STUDIES

CRITERIA 1.2.1 & 1.2.2

(VALUE ADDED COURSES)

MBA VAC DA 001

2021 -2022



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.

DIRECTOR
MBA PROGRAMME
UNION CHRISTIAN COLLEGE
ALUVA - 683 102

Head of the department

Janisben Bino

Proposal

Of

Value Added Course

On

1. Data Analytics

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:

Data Analytics Sylabus

Training in Data Analytics	
Module 1	Introduction to data analytics Importance, types, process and workflow
Module 2	Data transformation and feature engineerin EDA, data visualization techniques
Module 3	Case studies and real world application

Duration: 32 hours (6 days)

Eligibility: under graduation

Batch size: 60 students

Class Timing: 9:30am – 4:30am

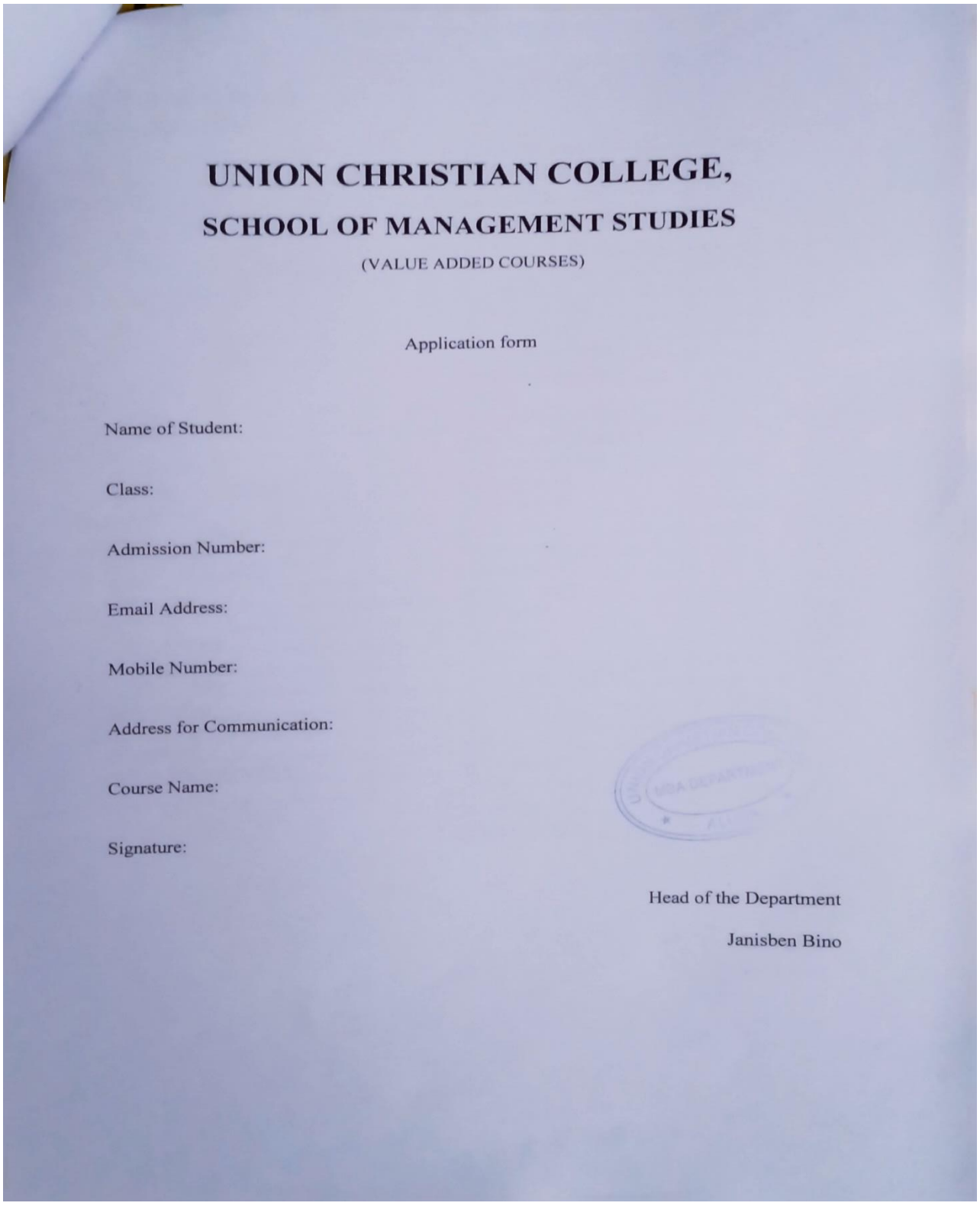
Course coordinator: Chinnu Mary John

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
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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
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20	ARYA S	*Hedge. *Microsoft Excel *Analytics	Passed
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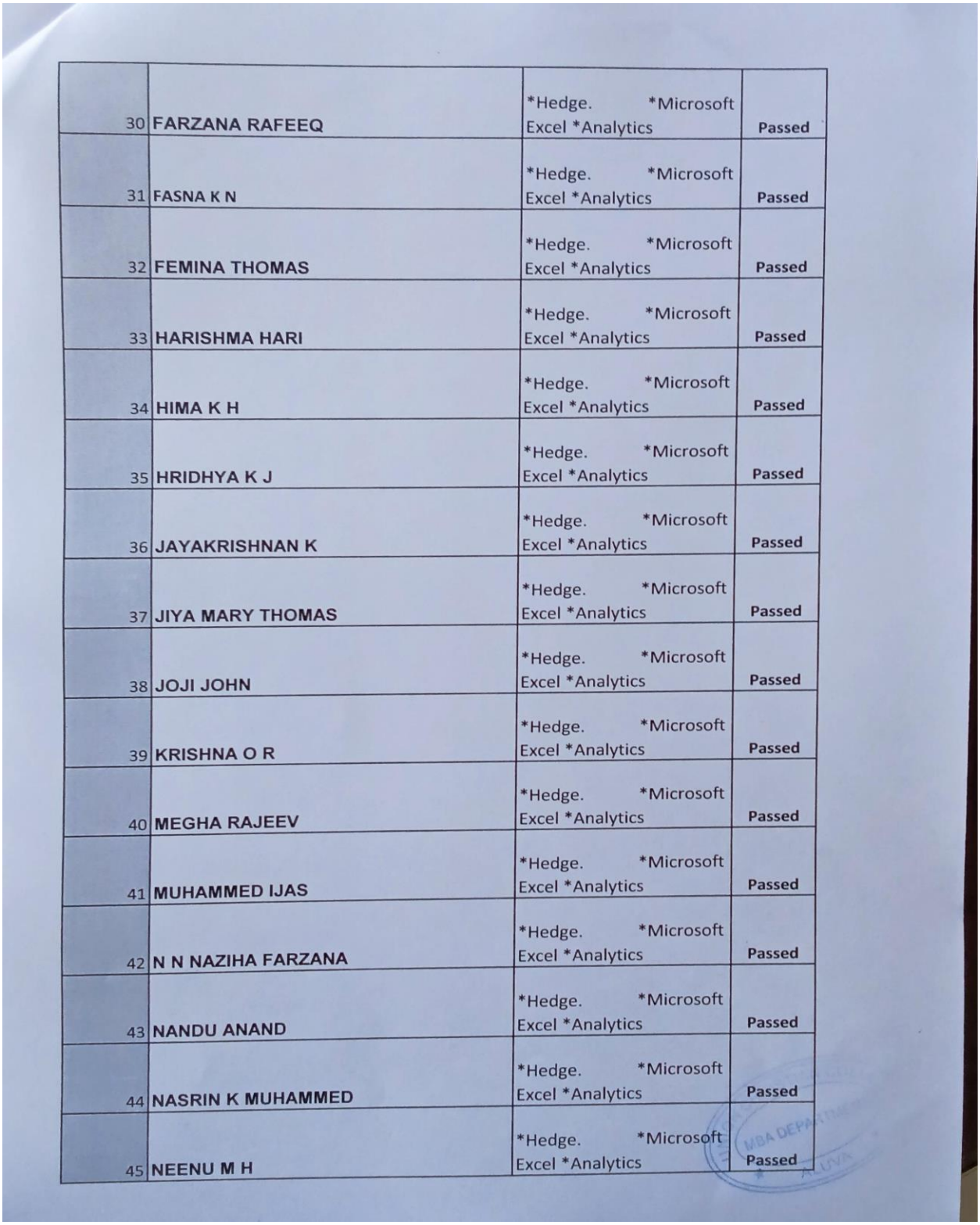
22	ASWATHY SURESH	*Hedge. *Microsoft Excel *Analytics	Passed
23	ASWATHY VISWANATHAN	*Hedge. *Microsoft Excel *Analytics	Passed
24	ATHIRA P S	*Hedge. *Microsoft Excel *Analytics	Passed
25	BIBIN BIJU	*Hedge. *Microsoft Excel *Analytics	Passed
26	DELEENA A B	*Hedge. *Microsoft Excel *Analytics	Passed
27	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
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57	SRADHA SANTHOSH	*Hedge. *Microsoft Excel *Analytics	Passed
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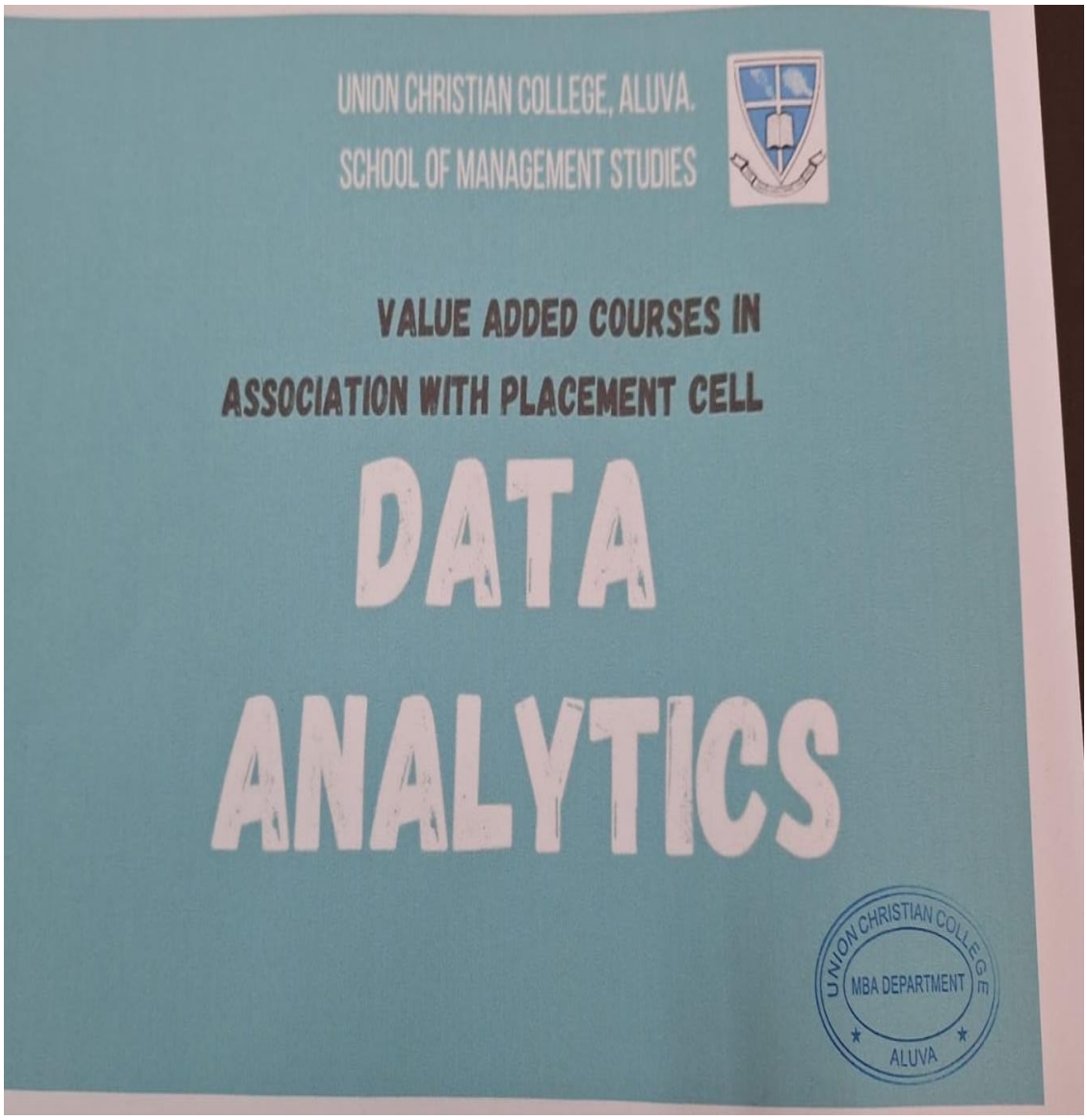
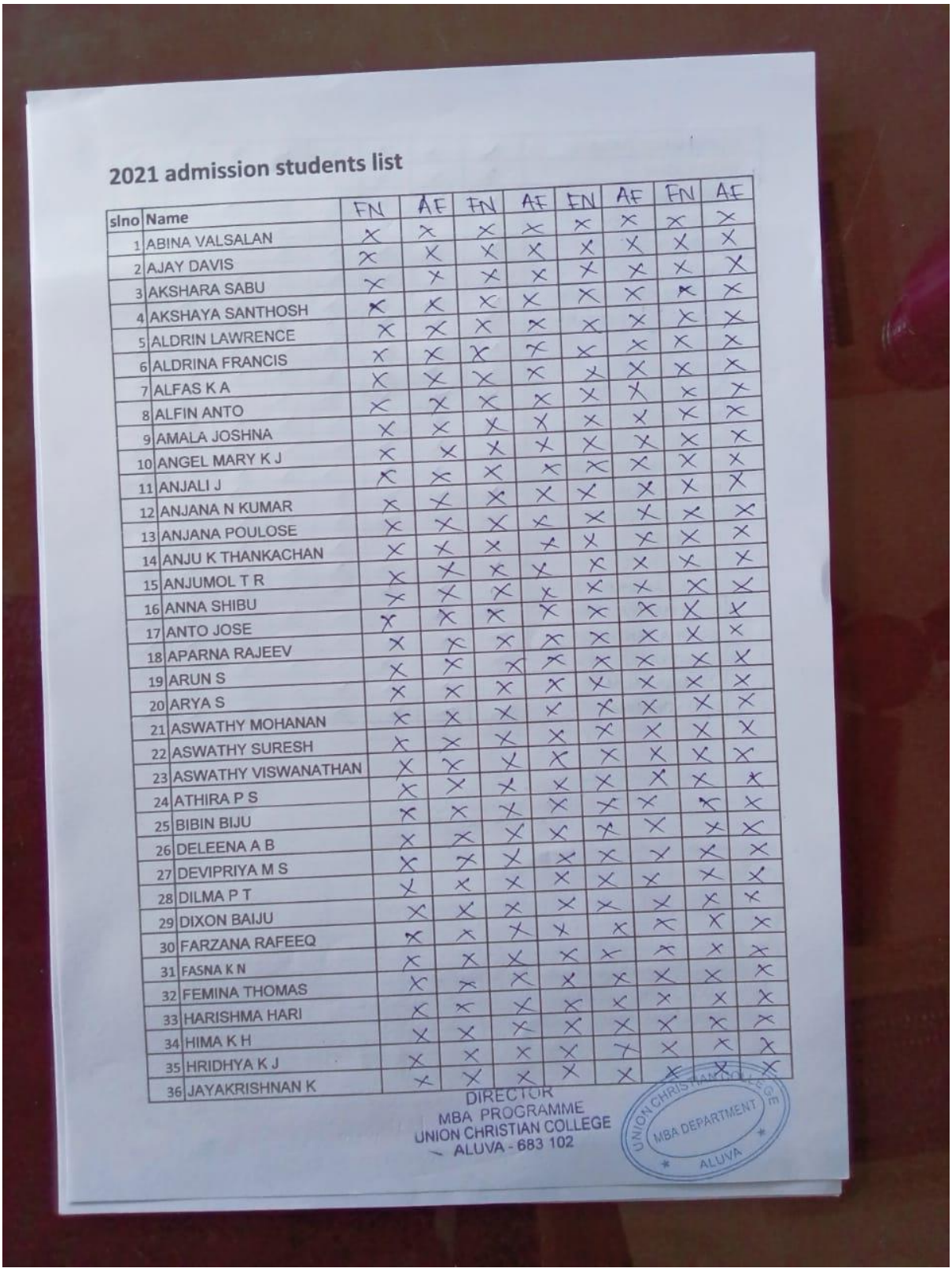
59	SUNAINA SALIM	*Hedge. *Microsoft Excel *Analytics	Passed
60	TINU YOHANNAN	*Hedge. *Microsoft Excel *Analytics	Passed


UNION CHRISTIAN COLLEGE, ALUVA.
SCHOOL OF MANAGEMENT STUDIES
VALUE ADDED COURSES IN
ASSOCIATION WITH PLACEMENT CELL
DATA
ANALYTICS
UNION CHRISTIAN COLLEGE
MBA DEPARTMENT
ALUVA



2021 admission students list

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

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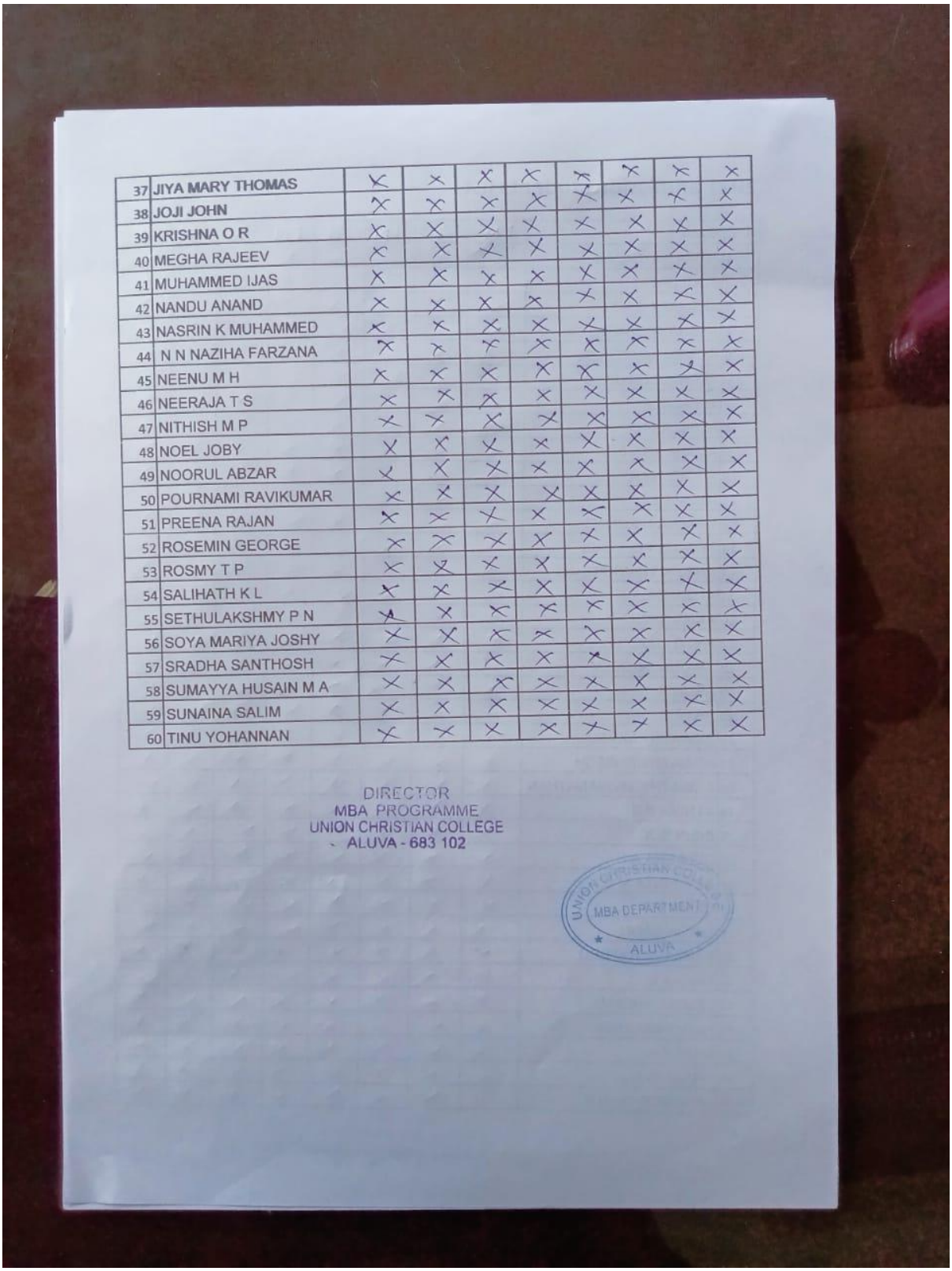

37	JIYA MARY THOMAS							
38	JOJI JOHN							
39	KRISHNA O R							
40	MEGHA RAJEEV							
41	MUHAMMED IJAS							
42	NANDU ANAND							
43	NASRIN K MUHAMMED							
44	N N NAZIHA FARZANA							
45	NEENU M H							
46	NEERAJA T S							
47	NITHISH M P							
48	NOEL JOBY							
49	NOORUL ABZAR						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

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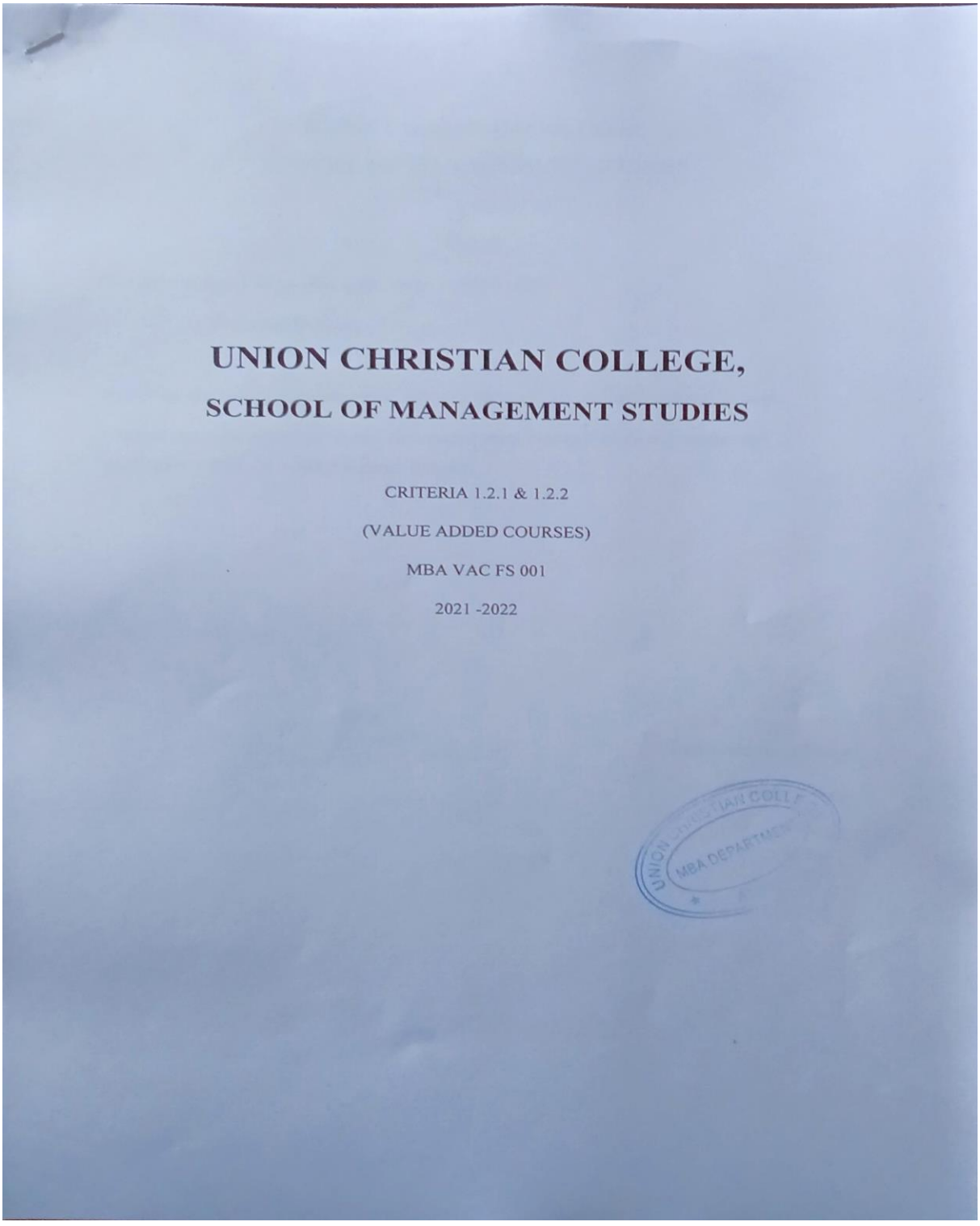
COURSE 8:FINANCIAL SERVICES



UNION CHRISTIAN COLLEGE,

SCHOOL OF MANAGEMENT STUDIES

CRITERIA 1.2.1 & 1.2.2

(VALUE ADDED COURSES)

MBA VAC FS 001

2021 -2022

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:

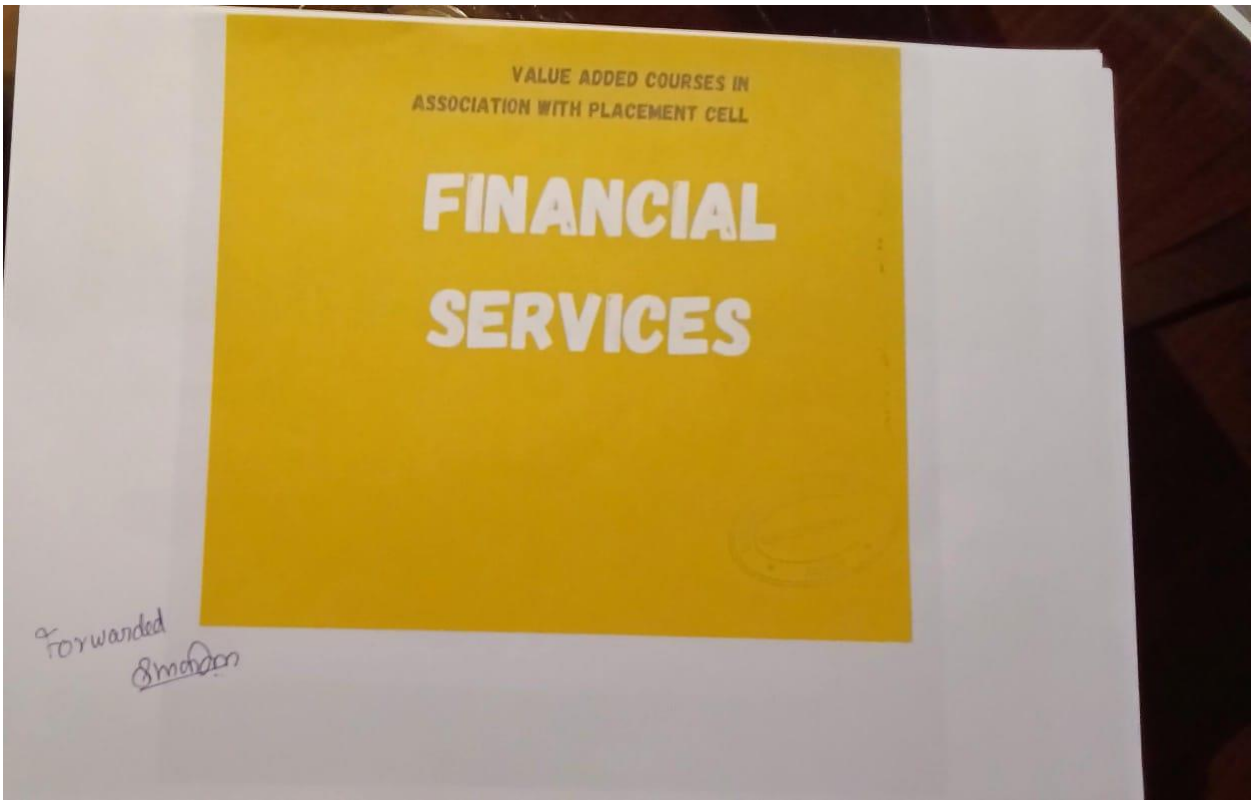
Address for Communication:

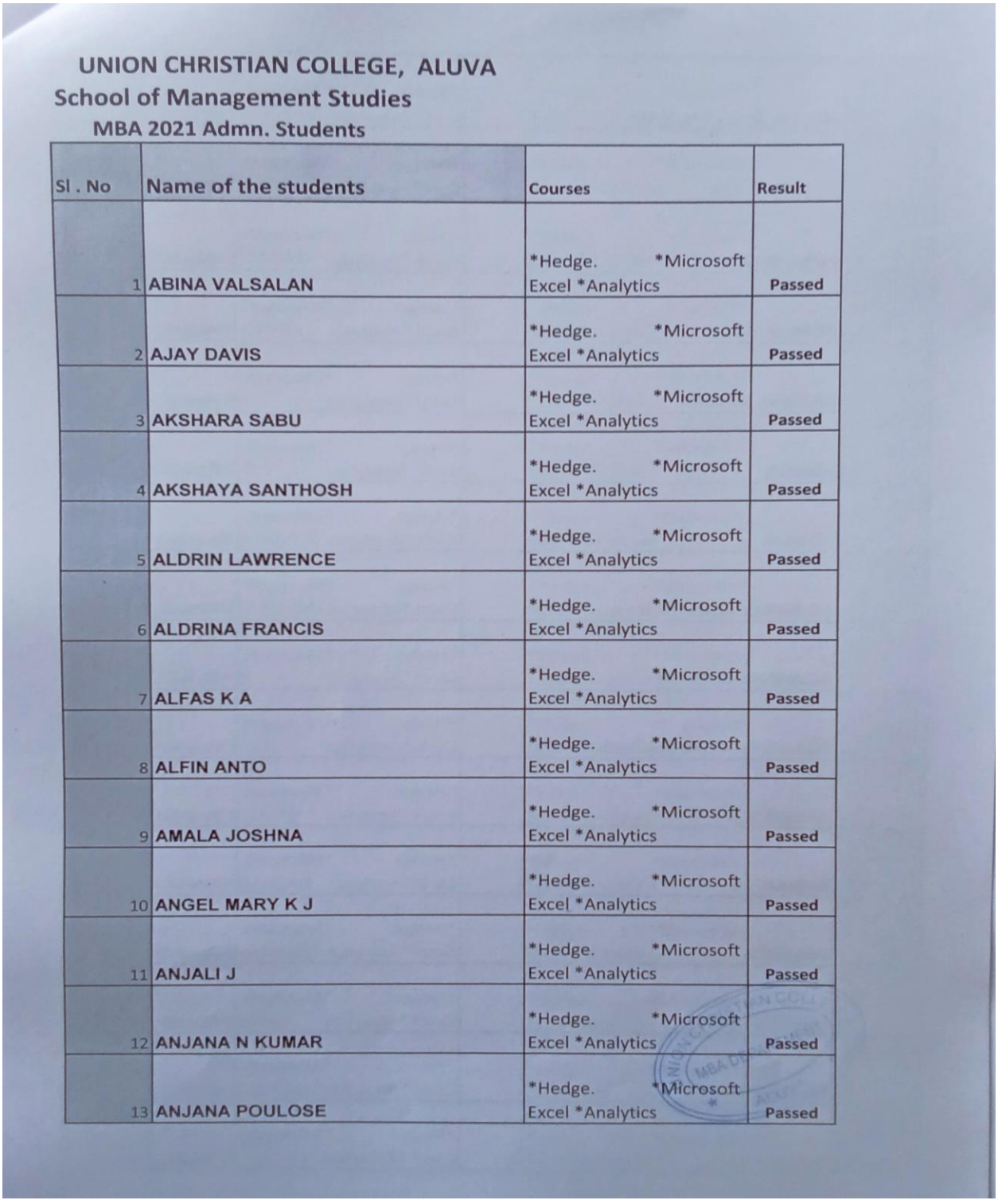
Course Name:

Signature:

Head of the Department

Janisben Bino

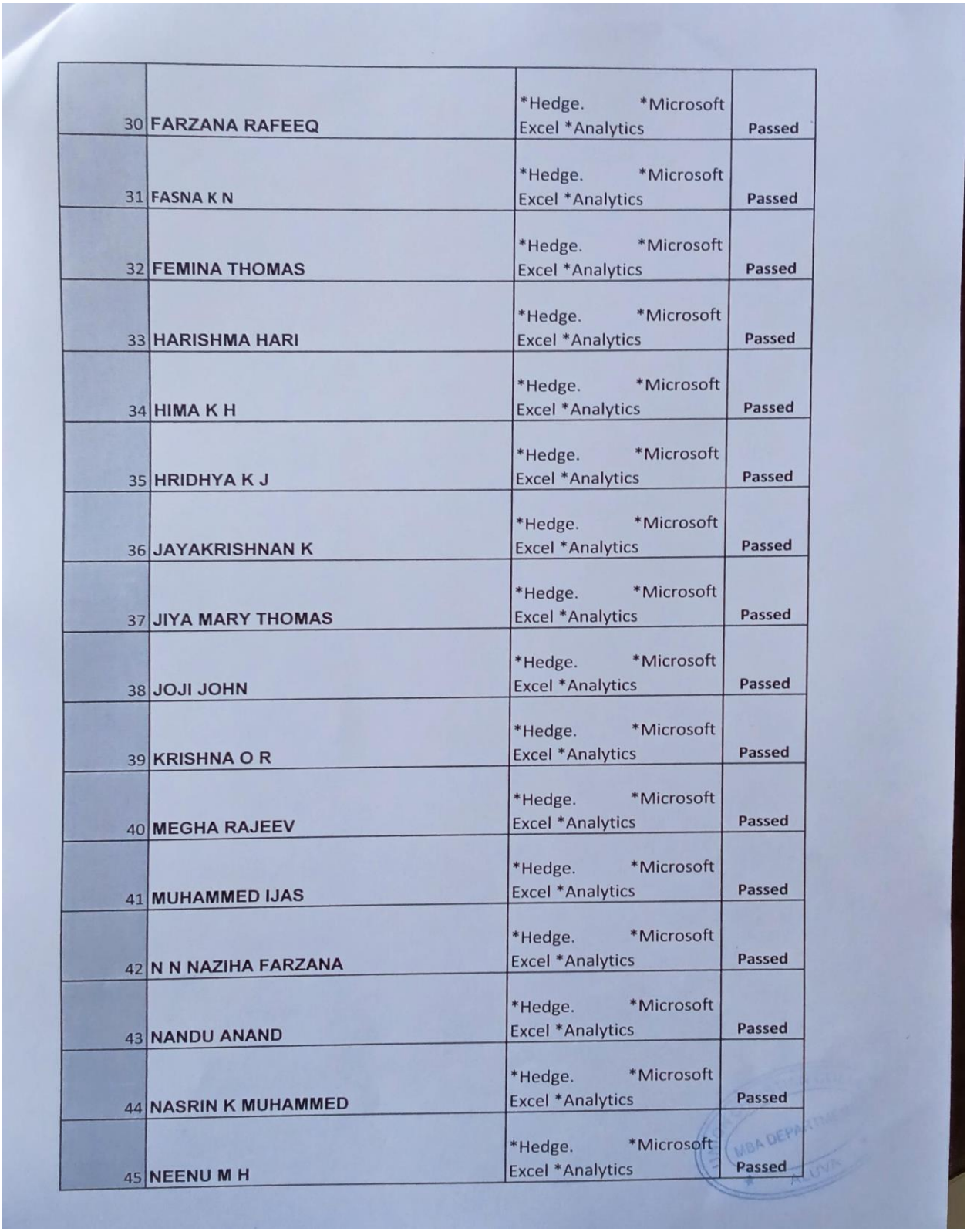

VALUE ADDED COURSES IN
ASSOCIATION WITH PLACEMENT CELL
FINANCIAL
SERVICES
forwarded



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
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
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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
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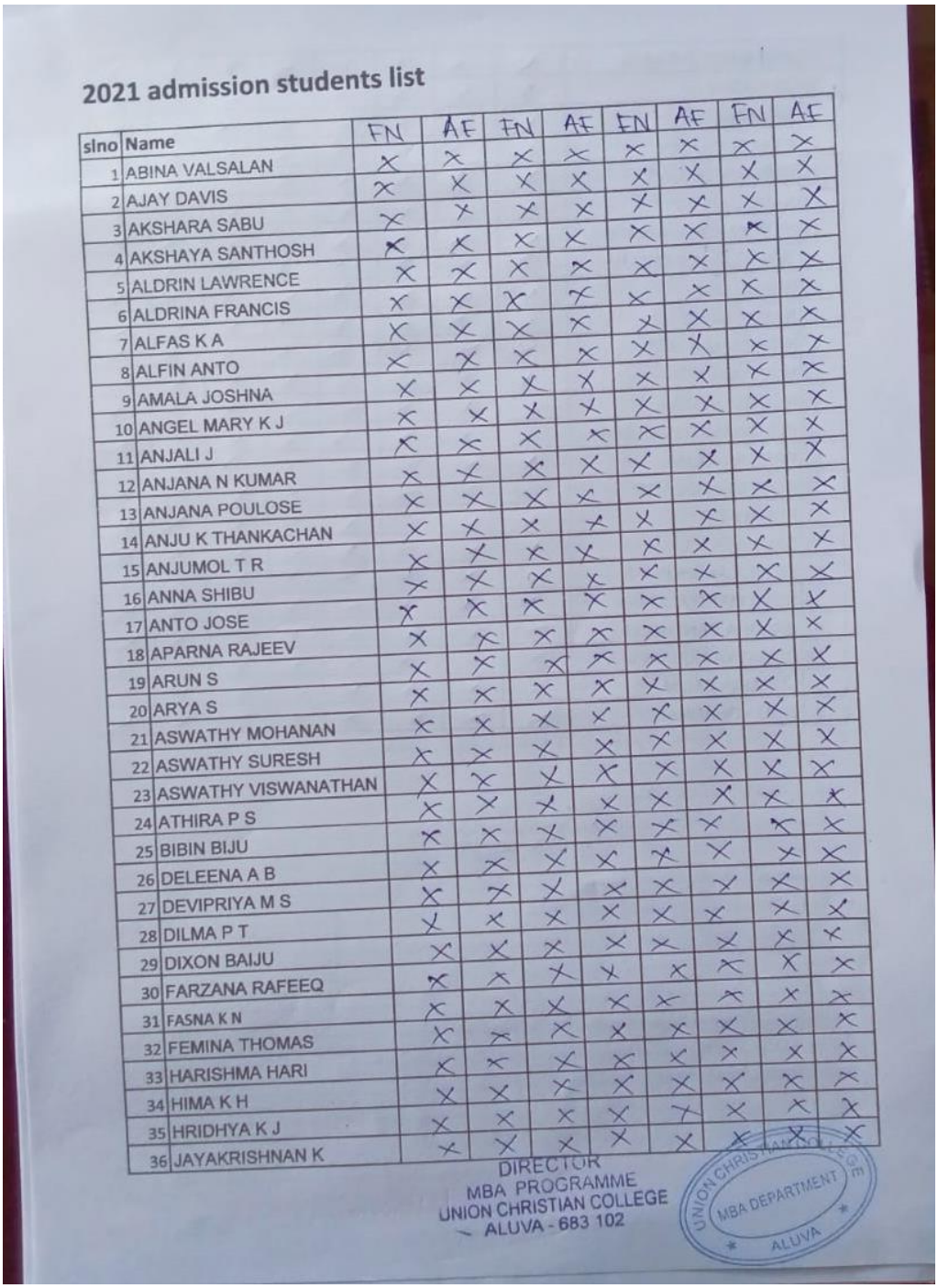
52	ROSEMIN GEORGE	*Hedge. *Microsoft Excel *Analytics	Passed
53	ROSMY T P	*Hedge. *Microsoft Excel *Analytics	Passed
54	SALIHATH K L	*Hedge. *Microsoft Excel *Analytics	Passed
55	SETHULAKSHMY P N	*Hedge. *Microsoft Excel *Analytics	Passed
56	SOYA MARIYA JOSHY	*Hedge. *Microsoft Excel *Analytics	Passed
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



2021 admission students list

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

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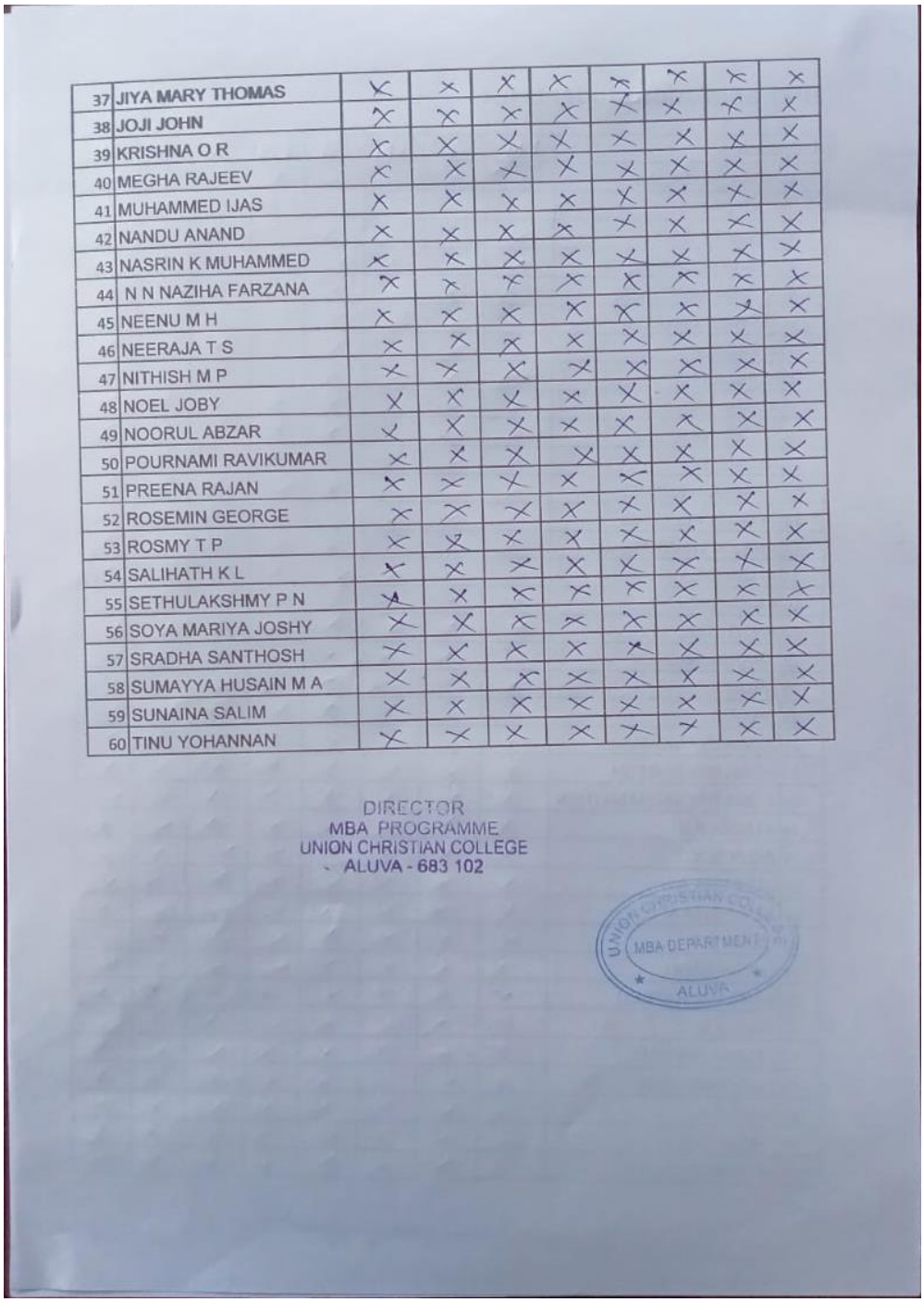

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Hedge — Grow with an edge

Hedge | School of Applied Economics

CERTIFICATION IN FINANCIAL SERVICES

This is to certify that

ABINA VALSALAN

Has successfully completed Twenty hours of programme

With an overall rating of B

Conducted by Hedge School of Applied Economics

In association with

Union Christian College, Aluva

17/02/2023

Date

SCHOOL OF APPLIED ECONOMICS LIMITED HEDGE

HEDGE EQUITIES LTD. KOCHI

Signature

PUNNOOSE M I

Digitally signed by PUNNOOSE M I
Date: 2024.02.07 15:06:25 +05'30'