1.2.1. Report of Add-On Courses (2021 – 22)

Chemistry of Cosmetics Department of Chemistry 2021 – 22



MAHATMA GANDHI COLLEGE

THIRUVANANTHAPURAM

POST GRADUATE DEPARTMENT OF CHEMISTRY & RESEARCH CENTER

NOTICE

ADD-ON COURSE -CHEMISTRY OF COSMETICS

Department of chemistry is conducting an Add-On course titled "Chemistry of Cosmetics" for the academic year 2021-2022 This course aims to provide students with an in-depth understanding of cosmetic chemistry.

Course Duration: 30 hour

Last Date for Registration: 6/6/21

For any queries or additional information, please contact the course coordinator, Head, Department of Chemistry.

Head, Department of Chemistry

HEAD P.G. Dept. of Chemistry & Research Cenac Mahatma Gandhi College Thiruvananthapuram

Principal Mahatma Gandhi College Thiruyananthapuram

SYLLABUS

ADD-ON COURSE IN CHEMISTRY OF COSMETICS

Unit I. Cosmetics

Shampoos: Ingredients and function, Different kind of shampoos, (Anti-dandruff, anti-lice, herbal and baby shampoos), Tooth paste: Composition and health effects. Hair dye: Chemicals used and its harmful effects. Face and skin powders: Types, ingredients and function. Cleansing creams, Cold creams vanishing creams and bleach creams, nail polishes, lipsticks, eyebrow pencil and eye liners (ingredients and functions)- Harmful effect of cosmetics.

Unit II. Soaps

Introduction of soaps, raw materials for soaps and their selection, selection of other auxiliary raw materials. General principles of soap making, chemistry of soap boiling and saponification reaction, manufacture of soap (cold, hot and semi boiled process), bleaching of soap, and manufacture of toilet soap.

Unit III. Soap Making

History about soap making, the Science of making Soap, different soap making techniques, step by step instructions on how to make soap, some problems and answers to soap making.

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entralise (1994) -

12 hour

12 hour

6 hour

Mahatma Gandhi College

ADD-ON COURSE IN CHEMISTRY OF COSMETICS

LIST OF BOOKS

S. No	Author	Title	Edition	Publisher
1	B K Sharma	Industrial Chemistry		Krishna Prakasan Media
2	M SR Winter	A Consumers Dictionary of Cosmetic Ingredients	Seventh	Three rivers press, New York
3	K.S. Parasuram J.G. Kane	Soaps & detergents Soaps: Their Chemistry &	First	Dr. R. Sarkarar
5	NIIR Board	Technology The Complete Technology Book on Soaps		Asia Pacific Business Press

Course Outcome:

- CO 1 : Classify and define different cosmetic products use in our daily life.
- CO 2 : Formulate cosmetic for skin care and hair as well as dental and oral care.
- CO 3 : Describe chemistry behind the soap.
- CO 4 : Describe the fundamentals of soap making methods.

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23	Academic YEAR 2021-2022			
-	Cosmetic Chemistry	Batch -1		
SI.No	Name	Candidate Code		
1	Goutham Mohan Y.M	23520118021		
2	Salmiya S	23520118032		
3	Anakha S.R	23520118008		
4	Bhagya Soman U.S	23520118051		
5	Adithya Vinod	23520118037		
6	Megha M.S	23520118046		
7	Chaithanyan R	23520118048		
8	Sreelekshmy Sunil	23520118055		
9	Gokul G.R	23520118052		
10	Lakshmy B	23520118045		
11	Aneesh S	23520118041		
12	Sonjith Suresh	23520118033		
13	Priyadarshini P.S	23520118047		
14	Anjali P.S	23520118010		
15	Adithya K.H	23520118004		
16	Athira B.S	23520118016		
17	Vaishnavy A.R	23520118049		
18	Silpa B.S	23520118054		
19	Panchami Krishna P	23520118028		
20	Aswathy S.R	23520118015		
21	Aiswarya M.S	23520118005		
22	Aparna S Nair	23520118012		
23	Parvathy Nair A.V	23520118029		
24	Jayanth J.S	23520118025		
25	Farsana Sunil	23520118020		
.6	Arya A.S	23520118014		
7	Abhaya Vinesh	23520118001		
8	Aiswarya B	23520118006		
9	Anuja	23520118050		
0	Gouri M.S	23520118043		
1	Devika A.J	23520118019		
2	Gayathri A.S	23520118058		
3	Ananthu A.S	23520118009		
4	Supriya Rani	23520118034		
5	Adarsh Krishna	23520118003		
6	Akhil Krishna	23520118077		
7	Athira O	23520118017		
8	Bharath S Krishna	23520118018		
9	Abhinav V.K	23520118002		
C	Aswathy C	23520118015		
1	Govind P	23520118022		
2	Hariprasad	23520118023		
3	Harsha G.S	23520118024		
1	Remya P	23520118027		
5	Priyadarshini S	23520118030		
5	Krishnavinod	23520118031		
7	Umeshdev V.K	23520118035		

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48 Abhijith A.S		23520118036		
49 Amaldev L		23520118038		
50	Anandu A	23520118039		
51	Ananthykrishna	23520118040		
52	Aswanth S.R	23520118047		
53	Jishnu siva S	23520118042		
54	Sabarinath K.G	23520118044		
55	Vaishakh N	23520118053		
56	Amaljith A.L	23520118057		

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	Academic Year 202	21-2022			
	Cosmetic Chemistry Batch-II				
SI.No	Name	Candidate Code			
1	Abhimanyu H	23521118001			
2	Abinav V.R	23521118002			
3	Abhirami B.R	23521118003			
4	Anandu A.B	23521118004			
5	Ananthu Unnithan	23521118005			
6	Anaswara P.S	23521118006			
7	Anjalikrishna K.M	23521118007			
8	Anujith Ram	23521118008			
9	Arathy S	23521118009			
10	Aswathy V.R	23521118010			
11	Bhagyalekshmy R	23521118011			
12	Devendu S.N	23521118012			
13	Ganga R	23521118013			
14	Meenu p.s	23521118014			
15	Mithun G.M	23521118015			
16	Neha S.N	23521118016			
17	Praveen G	23521118017			
18	Renjith R.S	23521118018			
19	Sivananda M	23521118019			
20	Sivarenjana R.S	23521118020			
21	Siya S Nair	23521118021			
22	Sooraj S.S	23521118022			
23	Sravya S.S	23521118023			
24	Sreelekshmy B.J	23521118024			
25	Sreelal L.S	23521118025			
26	Abhilash J	23521118026			
27	Abhinav S	23521118027			
28	Abin Das M.B	23521118028			
29	Adithya L.R	23521118029			
30	Akhila B	23521118030			
31	Amritharani P.K	23521118031			
32	Ananthakrishnan A	23521118032			
33	Ardrac G	23521118033			
34	Aswathy S Nair	23521118034			
35	B.S Adidev	23521118035			
36	Devika B.V	23521118036			
37	Devipriya R	23521118037			
38	Gourinanda K.A	23521118038			
39	Kavya J	23521118039			
40	Krishnendu S	23521118040			
1	Lekshmy P	23521118041			
2	Megha Manoj R	23521118042			
3	Nandana S.R	23521118043			
4	Pranav R.B	23521118044			
5	Rohit S.S	23521118045			
6	Sabarinath S.P	23521118045			
7	Sreeraj S	23521118040			

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48	Adithyakrishna A	23521118048
49	Anoop S	23521118049
50	Aswathy Krishna	23521118050
51	Athira R.S	23521118051
52	G.A Gopikrishnan	23521118052
53	Jagannath S	23521118053
54 55	Vyshnavi V.S	23521118054
55	Gokulkumar A.G	23521118055

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MAHATHMAGANDHI COLLEGE, THIRUVANATHAPURAM DEPARTMENT OF CHEMISTRY

Add on Course Examination

March 2023

Mark : 10

Time: 15 min

1. Which of the following ingredients can be used for thickening of shampoos

a. Glycerine and Lactic acid

b. Sodium Chloride and carboxymethyl cellulose

c. Bentonite and Beeswax

2. Castor oil is used in lipsticks for

a. Giving a shine

b. Building viscosity

c. Dispersing color

3. Which category of the ingredient is used for imparting flexibility to the film of a nailpolish

a. Pigment

b. Thixotropic agent

c. Plasticizer

4. Beeswax is obtained from

a. Kernel of palm tree

b. Petroleum

c Bee hives

5. Mascara is used for

a. Applying on the eyebrows

b. Thickening and lengthening the eyelashes

c. Applying on the eyelids

6. Which of the following is a requirement for an ideal sunscreen agent

a. An electron with drawing group, an electron donating group and a benzene ring

b. Methyl group, a methoxy group and a sodium ion

c. A carbonyl group, a cyano group and a chloride ion

7. An agent used to clean the surface of teeth and decreases the tooth decay, mouth odour is

a. Abrasive

b. Dentifrice

c. Dental cone

8. A toothpaste ingredient, Rennou TM is

a. Anti-hypersensitivity agent

b. Fluoride

c. Antibacterial agent

9. Which of the following is not the oral cavity disease

a. Mouth ulcer

b. Goiter

c. Bleeding gums

10 The saponification of a fat or oil is done using ______ solution for hot process.

a. KOH B. NaOH c. HCl

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SUMMARY REPORT OF ADD-ON COURSE - CHEMISTRY OF COSMETICS (2021-2022)

Considering the huge applications and harmful effect of cosmetics, the department of chemistry started an Add on course on chemistry of cosmetics in the academic year 2021-2022, hundred and eleven students were enrolled for the course. Classes conducted from 08/06/2021 to 15/03/22 for 30 hours. In this course we concentrated on the the chemistry aspects of cosmetics. After the completion of the course, students were assessed by written examination. Those who secured 60% marks and above in written examinations were honoured by certificates .



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Time 3.30-4.30 pm

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	Batch-II (2021-22)
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5 23520118030 8	12. Devendu S.N 25211801210
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atma Gandhi College liruvananthapuram	27. Abhinav S. 235211802710
At 2 Avaula -	25. Abin Dos M.B 2352118028 9
1	29. Aduthya L.R. 2352118028 8
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Mushroom Cultivation Department of Botany 2021 – 22



MAHATMA GANDHI COLLEGE

THIRUVANANTHAPURAM

POST GRADUATE DEPARTMENT OF BOTANY & RESEARCH CENTER

NOTICE

ADD-ON COURSE -MUSHROOM CULTIVATION

Dear students,

We are excited to announce the introduction of an Add-On course titled "Mushroom Cultivation" for the academic year 2021-2022. This course aims to provide students with an in-depth understanding of mushroom cultivation techniques and their practical applications.

Details of the Add-On Course:

Course Duration: 3 months

Start Date: 02/07/2021

End Date: 28/10/2021

Time: 0 hr

Venue: Room 55

Registration Details

Last Date for Registration: 25/06/2021

Seats are limited, and admission to the course will be on a first-come, first-served basis. Interested students are encouraged to register at the earliest to secure their spot.

For any queries or additional information, please contact the course coordinator, Head, Department of Botany at the department office between 10:00 AM to 4:00 PM on weekdays.

Warm regards,

Head, Department of Botany

Principal Mahatma Gandhi College Thiruvananthapuram

OBJECTIVES OF THE COURSE

- Understanding Mushroom Biology: Studying mushroom cultivation involves gaining a deep understanding of the biology, life cycle, and growth requirements of different mushroom species.
- Cultivating Edible Mushrooms: One of the main objectives of studying mushroom cultivation is to produce edible mushrooms for consumption and commercial purposes. This involves learning about the specific cultivation techniques, substrate preparation, spawn production, and environmental conditions required for different mushroom species.
- Disease Management: Studying mushroom cultivation includes researching and developing strategies for the prevention and management of diseases that can affect mushroom crops. This objective focuses on understanding common pathogens, identifying disease-resistant strains, implementing proper sanitation practices, and exploring alternative disease control methods.
- Economic Viability and Market Development: This objective includes conducting market research, evaluating consumer preferences, analyzing production costs, and exploring value-added product development to support successful commercialization and entrepreneurship in the mushroom industry.

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EXPECTED OUTCOMES OF THE COURSE

- Increased Knowledge and Understanding: Studying mushroom cultivation leads to a deeper understanding of mushroom biology, cultivation techniques, and the factors influencing mushroom growth and development.
- Improved Cultivation Techniques: Through research and study, new and improved cultivation techniques can be developed. Improved techniques can result in higher yields, better quality mushrooms, and more efficient production processes.
- Enhanced Disease Management Strategies: Research on mushroom cultivation helps in identifying and developing effective strategies for disease prevention, early detection, and management.
- Sustainable Cultivation Practices: Studying mushroom cultivation promotes the development and adoption of sustainable practices. This includes exploring alternative and renewable substrates, implementing recycling and waste management strategies, minimizing the use of synthetic inputs, and reducing the environmental footprint of mushroom cultivation.
- Increased Commercial Viability: By improving cultivation techniques, optimizing production processes, and developing marketable products, the profitability and competitiveness of mushroom farming can be enhanced. This benefits farmers, entrepreneurs, and the overall mushroom industry.
 - Training and Education Opportunities: Studying mushroom cultivation creates opportunities for training programs, workshops, and educational resources.

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COURSE STRUCTURE

DURATION

30 Hrs

ASSESSMENT & CERTIFICATION : The trainee will be tested for his skill, knowledge and attitude during the period of training and at the end of the training programme including practical examinations.

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MUSHROOM CULTIVATION

SYLLABUS

(Total 30 hrs) -

History and introduction of Edible and Poisonous mushrooms. A

Common Indian mushrooms. A

Systematic position, morphology, distribution, structure of Agaricus and Pleurotus. 8

MODULE-II

Nutritional value, medicinal value and advantages- types- milky, straw, button and poisonous mushrooms

Production level, economic return, Foreign exchange from Mushroom cultivating countries and A international trade.

MODULE-III

Cultivation of Paddy straw mushroom, Oyster mushroom, white button mushroom and milky X mushrooms

Spawn making, Substrate preparation, Maintenance and Harvesting 4

> Composting

MODULE-IV

> Diseases- Common pests, disease prevention and control measures- Agaricus, Pleurotus and Volverilla.

Processing and storage of mushrooms

Field Study: Visit to a mushroom cultivating Laboratory and handson training for processing.

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MODULE-I

(10 hrs)

(10 hrs)

(5 hrs)

(5 hrs)

MAHATMA GANDHI COLLEGE

POST GRADUATE DEPARTMENT AND RESEARCH CENTRE OF BOTANY

THIRUVNANTHAPURAM

ADD ON COURSE -2021- 2022

LIST OF STUDENTS-MUSHROOM CULTIVATION

SL.NO	NAME OF STUDENT	CLASS/ SEMESTER
1	JIJI NELSON S	II PG
2	NAVAMI ASOK A S	IIPG
3	SAJILA A S	II PG
4	AKHILA A G	I PG
5	APARNA B	IPG
6	APARNA CHANDRAN J S	I PG
7	AISHWARYASP	III UG
8	AISWARYA.S	III UG
9	AMRITHAKRISHNAA.S	III UG
10	ANJANA.A.B	III UG
11	ARSHASA	III UG
12	ASHTAMY.B.S	III UG
13	DEVENDUB.S.	III UG
14	GAYATHRYM.S	III UG
15	JANCY.C.S	III UG
16	MOHAMMEDSHANS	III UG
17	NIKHILAA.A	III UG
18	РООЈААЈІТН	III UG
19	SANGEETHASR	III UG
20	SIMI.M.S	III UG
21	RESHMA BAIJU	III UG
22	AROMALKRISHNA.R.S	II UG
23	HARISARANSJ	II UG
24	SASWATHY	II UG
25	SARANGISSUNIL	II UG
26	SOURAVS	II UG
27	SREEJYOTHI.B.S	II UG
28	ARCHASANIL	II UG

29	MOSESMATHEW	II UG
30	SAILEKSHMI.V.S	II UG
31	NAUSHINA.J	II UG
32	ANANDHU A S	II UG
33	AKASH V	II UG
34	GOURI L AJI	II UG
35	SARANYA V S	II UG
36	SHILPA ANIL	II UG
37	AADHYAKV	IUG
38	AISWARYAM S	IUG
39	AKSHAYNP	IUG
40	AKSHAYA.A. M	IUG
41	AMALA	IUG
42	ANANDUKRISHNA.P	IUG
43	ANANTHUA	IUG
44	ARCHAS	IUG
45	AVANI.V.T	IUG
46	DEVIPRAKASH	IUG
47	DEVIKAD	IUG
48	DHANUSH.I.S	IUG
49	GOPIKASM	IUG
50	MUHSINANS	IUG

HEAD OF THE DEPARTMENT

PRINCIPAL

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MAHATMA GANDHI COLLEGE THIRUVANANTHAPURAM

POST GRADUATE DEPARTMENT & RESEARCH CENTRE OF BOTANY

ADD ON COURSE- MUSHROOM CULTIVATION

QUESTION PAPER

2021-2022 Academic year

Duration: 1 hr

Marks: 30

PART A - (Answer all 5; 1 marks each = 5 marks)

- 1. Define "composting" in the context of mushroom cultivation.
- 2. Name one common pest associated with mushroom cultivation.
- 3. Which mushroom type has significant medicinal values?
- 4. What is the systematic position of Agaricus?
- 5. Why is substrate preparation vital in mushroom cultivation?

PART B - (Answer any 5; 2 marks each = 10 marks)

- 6. Mention two common pests found in mushroom cultivation.
- 7. Explain the significance of mushroom storage.
- 8. Discuss the challenges and opportunities associated with mushroom cultivation in the modern age.
- Briefly explain the historical significance of mushrooms in culinary and medicinal uses.
- 10. Describe the difference between edible and poisonous mushrooms.
- 11. Explain the nutritional benefits of consuming mushrooms.
- 12. Why is mushroom cultivation considered economically beneficial for farmers?

PART C - (Answer any 3; 5 marks each = 15 marks)

- 13. Provide a detailed account of the systematic position, distribution, and structure of Pleurotus.
- 14. Discuss the various types of mushrooms mentioned in the module and their unique characteristics.
- 15. Elaborate on the importance of substrate preparation and its role in ensuring a successful mushroom yield.
- 16. Describe the challenges associated with composting in mushroom cultivation.
- 17. What are the common diseases found in Pleurotus, and how can they be

prevented?

Principal Mahatma Gandhi College Thiruvananthapuram

MAHATMA GANDHI COLLEGE

POST GRADUATE DEPARTMENT AND RESEARCH CENTRE OF BOTANY

THIRUVNANTHAPURAM

ADD ON COURSE - 2021 - 2022

MARK LIST OF STUDENTS - MUSHROOM CULTIVATION

SL.NO	NAME OF STUDENT	CLASS/ SEMESTER	MARK	SIGNATURE
1	JIJI NELSON S	II PĠ	28	Kil.
2	NAVAMI ASOK A S	II PG	21	Mavanni
3	SAJILA A S	II PG	23	Barile
4	AKHILA A G	I PG	20	Đ.
5	APARNA B	I PG	19	ApuntB
6	APARNA CHANDRAN J S	I PG	24	
7	AISHWARYA S P	III UG	26	Assurand
8	AISWARYA .S	III UG	29	Ask.
9	AMRITHA KRISHNA A.S	III UG	08	Atte
10	ANJANA. A. B	III UG	22	luis
11	ARSHA S A	III UG	26	Acuta
12	ASHTAMY.B.S	III UG	29	Astranoi
13	DEVENDU B.S.	III UG	06	Danie
14	GAYATHRY M. S	III UG	22	boon
15	JANCY.C.S	III UG	26	dant
16	MOHAMMED SHAN S	III UG	28	Granno
17	NIKHILAA. A	III UG	23	Nikhila
18	POOJA AJITH	III UG	24	ROOF
19	SANGEETHA S R	III UG	20	Butter
20	SIMI . M . S	III UG	08	Semimohan)
21	RESHMA BAIJU	III UG	19	1 Robins In
22	AROMAL KRISHNA .R.S	II UG	21	human
23	HARISARAN S J	II UG	26	Horsensa.
24	S ASWATHY	II UG	24	Towalky
25	SARANGI S SUNIL	II UG	22	· blashnelm
26	SOURAV S	II UG	06	Sanar
27	SREEJYOTHI. B. S	II UG	20	Chicalyon
28	ARCHA S ANIL	II UG	19	Rehe

· `29	MOSES MATHEW	II UG	.26	Noses Markan
30		II UG		Ritchi
31	SAILEKSHMI. V.S		28	Sandersh
	NAUSHIN A.J	II UG	06	Ataushin A-S
32	ANANDHU A S	II UG	22	Anandhu.
33	AKASH V	II UG	24	Akas
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35	SARANYA V S	II UG	05	· Kanand ;
36	SHILPA ANIL	II UG	23	Bhelpatrif
37	AADHYA K V	IUG	24	derthye
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39	AKSHAY N P	I UG	28	Akshar
40	AKSHAYA. A. M	I UG	20	Appeniis
41	AMAL A	I UG	21	Amatia
42	ANANDU KRISHNA. P	I UG	06 0	Ananch
43	ANANTHU A	I UG	22	Anafton.
44	ARCHA S	I UG	23	Archas
45	AVANI.V.T	I UG	26	Avani V.I
- 46	DEVI PRAKASH	I UG	28	Del
47	DEVIKA D	I UG	20	Devika
48	DHANUSH.I.S	IUG	08	Shint
49	GOPIKA SM	I UG	06	Gopikason
50	MUHSINA N S	I UG	23	Mubal

HEAD OF THE DEPARTMENT

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PRINCIPAL

Principal Mahatma Gandhi College Thiruvananthapuram

Applied Micro – Economic Theory Department of Economics 2021 – 22



Mahatma Gandhi College Thiruvananthapuram

Department of Economics

DVANCED ICROECONOMIC HEORY AND ITS PPLICATIONS

uration O hours

culty **Tuthi S.** sistant Professor ot. of Economics College, Tvpm

ested students may contact the rtment



Certificate Course

Commencing from 01.06.2021

From

The HOD

Department of Economics

Mahatma Gandhi College, Tvpm.

31st March 2021

Thiruvananthapuram

To

The Principal

Mahatma Gandhi College, Tvpm.

[Request for the approval of Add on course for the next academic year 2021-2022]

Sir/Ma'am,

The department id planning to offer an add on course during the academic year 2021-2022 under the title "EC 31: Certificate course on Advanced Microeconomic Theory & its application". Smt Sruthi S, Assistant Professor, Department of Economics, Mahatma Gandhi college will be the course coordinator as well as the instructor. We have planned for a 30 hr course via online mode. The targeted group is the Economics Graduate students. The details of the course are attached herewith.

Thanking You

Yours' sincerely

HoD

PRIVA L G Head of the Department PG Department of Economics Mahatma Gandhi College Thiruvananthapuram

EC 31: Certificate course on Advanced Microeconomic Theory & its application

FC 21. Cartificate course on Advanced Microsconomic Theory & its

EC 31: Certificate course on Advanced Microeconomic Theory & its application

Academic Year 2021-2022 Mahatma Gandhi College Thiruvananthapuram

Description of the course:

This is a course designed for students who are pursuing a degree in economics and have already taken introductory courses in micro. While these courses provide the basic toolkit of economics along with the standard results deemed important for a solid education in economics, applied economic analysis will help students in using the economics toolkit to address questions that they are interested in asking or see outside their classrooms in the real world. Why do investment bankers make so much money? Why is Delhi so polluted? Why do we have dowry system in India? Why do fish vendors sell fish at a lower price at night? Even seemingly noneconomic questions like: Why do people apologize? Why there exist sex selective abortions? And do religious rituals help enforce social contracts. Students will be encouraged to work and refine research questions, critically read literature, collect data and develop analytic frameworks to extract insights from data.

Course Material: There are no prescribed textbooks for this course. But to get started with the course, please go through:

1) What use is Economic Theory, an essay by Dr. Hal Varian.

2) Trial, Error and the God complex, a talk by Tim Hartford on the importance of empirics.

You would also do well to get a copy/ebook of Applied Economics-thinking beyond stage one by Thomas Sowell. This book will give a primer on how to think like an economist (and not just take exams like one).

The course is not based on the book, but you will benefit greatly from insights that it provides.

Further Information about the course: The rest of the material will be provided through the course in the form of slides, readings, videos and data sets. The content of these will depend on the specific topics/questions/issues that will be taken up in the course (in consultation with you).

Course Objectives

At the end of the course successful students should be able to:

1. Reduce real life problems to questions that can be evaluated using the toolkit of economics.

2. Set up simple economic models.

3. Identify good data sources, collect data, and perform basic statistical and econometric analysis.

4. Develop a sense of the standard of evidence required to make a strong claim.

Instructors and Hours (30 hrs)

Instructor : Sruthi S, Assistant Professor, Department of Economics Preferred Contact : sruthi@mgcollegetvm.org

Session plan Week

1

2

General Topic

Readings

C.O.R.E and Sydnester

- Introduction: course goal and objectives
- Economics of Public Goods and Policies
- The games are introduced
 - Public goods
 provision game
 - Economics of Markets and role of game theory in analysing real world situations
 - Introducing Game theory
 - Market Game
 - Prisoner's Dilemma
 O
 - Economics of Markets and role of game theory in analysing real world situations.
 - Discussions on a realworld issue. Preferably a current local issue. (Graded)

Presentations and course overview.
Submission of end-

term research paper.

C.O.R.E and Sydnester [Beautiful mind movie discussion is recommended]

Hal. R Varian and C.O.R.E

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Pead of the Department PG Department of Economics Mahatma Gandhi College Thiruvananthaguram SRUTHI S Assistant Professor Department of Economics Mahatma Gandhi College, TVPM

EC 31: Certificate course on Advanced Microeconomic Theory & its application

Course Intended Learning Objectives

(Aim) Course Intended Learning Outcomes

Teaching and Learning Activities

Assessment/Activities

Basic understanding of Microeconomics in analysing the real-world scenarios

Class lectures, Games and group discussion

- On line lecture
- One Term paper or Article
- One class presentation based on the research paper or any real world microeconomic issue.
- Class participation

Scheme of Evaluation1 and Grading

Evaluation is comprised of continuous assessment, all of which will be internal (100%). Internal evaluation is comprised of:

- Classroom participation (10%)
- End-term research paper (65% for undergraduate-level and 50% for graduate-level): The article or the term paper should have a maximum of 2 to 3 pages. The paper should include the following components:
- 1. Introduction/background: Present your research topic.
- 2. Relevant pictures should be included

3. The microeconomic concept given in the class should be explained with proper justification [No two papers should address the same issue]

Academic Integrity:

Academic Honesty, Cheating, and Plagiarism: As per University policy. Attendance Policy: As per University policy

SRUTHI S Assistant Professor Department of Economics Mahatma Gandhi College, TVPM

PRINCIPAL

Mahatma Gandhi College Thiruvananthapuram

140D

Head of the Depar PG Department of Economics Mahatma Gandhi College Thiruvananthapuram

	2021-22	
Certi	ficate course on Advar	ced Microeconomic
certi		
	Theory & its app	SRUTHI S
1	Faculty: Start Date:	1st June 2021
	End Date:	5th July 2021
	Hours:	30 hours
	No of Days	
		10 days 53
	Total no of reg students: Time:	
	Mode	4 pm to 7 pm
	Iviode	Online via G-Meet
	STUDENT LIST	PILASANTH PILASANT
sl no	Register number	Name
1	15020118001	ABHIJAYA V NAIR
2	15020118002	ABHIJITH M.S
3	15020118003	ΑΟΗΙΤΗΥΑ Κ Α
4	15020118004	AKASH R M
5	15020118006	AMITHA . A . J
6	15020118008	ANJANA V
7	15020118010	ANUJA.A.J
8	15020118011	ARATHY CHANDRAN V E
9	15020118013	DEVIKA Y S
10	15020118014	LEKSHMIS
11	15020118015	MEKHA S
12	15020118016	NANDANA A S
13	15020118017	NIVA A S
14	15020118018	KADHIKA R.S
15	15020118022	VISHNU. M
16	15020118023	ABHIJAY R
17	15020118024	ABHINAND S A
18	15020118025	ABHINAV KRISHNA D P
19	15020118026	ADHITHYA SANKAR A A
20	15020118027	AISWARYA V S
21	15020118028	AJESH A I
22	15020118029	AKASH B MANOHAR
23	15020118030	AKHIL S
24	15020118031	AMITHRAJITH.S.S
25	15020118032	ANANDU. A.S
26	15020118032	ARATHI B S
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SRUTHI S Assistant Professor

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Department of Economics Mahatma Gandhi College, TVPM

32	15020118040	BHAVYA J.S
33	15020118041	BIMAL S S
34	15020118042	DEVIKA R.H
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38	15020118046	GOKULA
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40	15020118048	KARTHIKA P. NAIR
41	15020118049	LAKSHMI SURESH
42	15020118050	MALAVIKA, A.S
43	15020118051	MEGHA.S.KRISHNAN
44	15020118052	NIKHIL P SYAM
45	15020118053	PRANAY PRASANTH
46	15020118055	RESHMA R.G
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\$15 SRUTHI S

Assistant Professor Department of Economics Mahatma Gandhi College, TVPM

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Head of the Department PG Department of Economics Mahatma Gandhi College Thiruvananthapuram

1.

PRINCIPAL

Mahatma Gandhi College Thiruvananthapuram

Outline for the Term paper.

Due July 5th

A **social dilemma** is a collective action situation in which there is a conflict between individual and collective interest. Usually has two properties:

A. each individual receives a higher payoff for a socially defecting choice ... than for a socially cooperative choice, no matter what the other individuals do, but

B. all individuals are all better off if all cooperate than if all defect.

More technically, it is a collective action situation in which the Nash equilibrium results in outcomes below the Pareto optimal.

Pareto Optimal: an outcome is Pareto optimal if there is no alternative outcome that makes some individuals better off and leaves all other individuals at least as well off.

What is the Pareto optimal choice? What is the Nash equilibrium? Your work: Identify a social dilemma in your everyday life. Construct a simple model with special emphasis on how you derive the payoffs. Talk about the complexities that your model misses out on. Think of a 'social/cultural' mechanism that can help alleviate the dilemma. Either find examples of such mechanisms out in the world, or explain how will you go about setting up such a mechanism. Then address these questions: Will this be a fool proof mechanism? Will it always work? Will it create other problems that need to be solved?

Assistant Professor Department of Economics Mahatma Gandhi College, TVPM

Head of the Department PG Department of Economics Mahatma Gandhi College Thiruvananthapuram

PRINCIPAL Mahatma Gandhi College Thiruvananthapuram

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-	End Date:	5th July 2021	-				-
	Hours:	30 hours					-
	No of Days	10 days					_
	Total no of reg studer	nts: 53					-
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SRUTHI S Assistant Professor Department of Economics Mahatma Gandhi College, TVPM

PRINCIPAL Mahatma Gandhi College Thiruvananthapuram

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Termpaper maeks on 20

Head of the Department PG Department of Economics Mahatma Gandhi College Thiruvananthapuram

REPORT

EC 31: Certificate course on Advanced Microeconomic Theory & its application

The course started on 1st of June 2021. It was scheduled as a 30 hrs, 10 days course with 3 hr sessions on each day. The course aimed at bridging the gap between the regular classroom course and the world outside. To help students in their process of thinking like an Economist was the main objective. 53 undergraduate students participated in the course. The classroom participation was very good. The students after few sessions of the class started connecting the dots and were able to point out the economics behind many real-world scenarios in their daily life.

Existence of dowry in our society and the economics behind was the **topic chosen** for classroom interaction. Many students expressed their views and insights. Why is Delhi so polluted? Why do we have dowry system in India? Why do fish vendors sell fish at a lower price at night? Even seemingly noneconomic questions like: Why do people apologize? Why there exist sex selective abortions? And do religious rituals help enforce social contracts. Were the other set of problems that were discussed as part of the course.

There were 53 students and hence the group were able to identify 53 different topics of current relevance. The students were encouraged to think outside the box and go local in addressing the social dilemma problems.

SRUTHI S Assistant Professor Department of Economics Mahatma Gandhi College, TVPM

PRINCIPAL Mahatma Gandhi College Thiruvananthapuram

PRINCIPAL College Mahatma Gandhi College Thiruvananthapuram PROVIEG Head of the Department

PG Department of Economics Mahatma Gandhi College Thiruvananthapuram

Data Analysis using GRETL Department of Economics 2021 – 22



Mahatma Gandhi College Thiruvananthapuram

Department of Economics



elb

DATA ANALYSIS USING GRETL

Faculty Sruthi S. Assistant Professor Dept. of Economics MG College, Tvpm

Course Duration 30 hours

> Starting from 15.07.2021

Interested students may contact the department

Mahatina Gandhi College Thiruvananthapuram

From

The HOD

Department of Economics

Mahatma Gandhi College, Tvpm.

То

The Principal

Mahatma Gandhi College, Tvpm.

[Request for the approval of Add on course for the academic year 2021-2022]

Sir/Ma'am,

The department is planning to offer an add on course during the academic year 2021-2022 under the title **"EC 32 Data Analysis using GRETL".** Smt Sruthi S, Assistant Professor, Department of Economics, Mahatma Gandhi college will be the course coordinator as well as the instructor. We have planned for a 30 hr course via online. The targeted group is the Economics Graduate students. The details of the course are attached herewith.

Thanking You

Yours' sincerely

HoD

2021-2022

EC 32: Data Analysis Using GRETL

Academic Year 2021-22 Mahatma Gandhi College Thiruvananthapuram

2021-22					
	Data analysis us	ing GRETL			
	Faculty:	SRUTHI S			
	Start Date:	15th July 2021			
	End Date:	28th September 2021			
Hours:		32 hours			
	No of Days	27 days			
	Total no of reg students:	30			
	STUDENTS LIST				
sl no	Register number	Name			
1	55020118001	AISWARYA A S			
2	55020118002	ALFIS			
3	55020118003	ARUNIMA, P			
4	55020118004	GAYATHRI S			
5	55020118005	GOURI V NAIR			
6	55020118006	KRISHNA. K. P			
7	55020118007	LEENA GEORGE			
8	55020118008	PARVATHY A S			
9	55020118010	R.S.MALAVIKA			
10	55020118011	RESHMA MOHAN			
11	55020118012	REVATHY U S			
12	55020118014	SNIGDHA S			
13	55020118015	SURYA PRAKASH			
14	55020118016	VIGNESH M S			
15	55020118017	VISHNU VARDHAN M S			
16	55021118002	ADITHYA S PILLAI			
17	55021118003	AISWARYA J R			
18	55021118004	AKHILA G K			
19	55021118005	ANJANA M			
20	55021118006	ARJUN J B			
21	55021118007	KARTHIKA S			
22	55021118008	KRISHNA MURALEEDHARAN			
23	55021118009	KRISHNA PRIYA V V			
24	55021118010	LAVANYA.S. A			
25	55021118011	LIJIMOL.L. A			
26	55021118012	M M SREELAKSHMI			
27	55021118013	S MEGHA NAIR			
28	55021118015	SOUFIYA BADAR			
29	55021118016	SWATHY S KUMAR			
30	55021118017	VARSHA B M			

Faculty in charge

Mahatma Gandhi College Thiruvananthapuram

PRIT LG

Head of the Department PG Department of Economics Mahatma Gandhi College Thiruvananthapuram

SRUTHI S Assistant Professor Department of Economics Mahatma Gandhi College, TVPM

EC 32: Data Analysis using GRETL

Readings

- Required Textbook: Wooldridge, J. M. (2009). Introductory Econometrics: A modern approach, 6th edition, Cengage Learning, India. [JW]
- Stock, J. H. & Watson, M. W. (2019). Introduction to Econometrics, 4th edition, Pearson [SW].
- Damodar N Gujarati and Dawn C Porter (2009): Basic Econometrics, Fifth Edition, McGraw Hill International Edition. [GJ]
- Damodar N Gujarati (2011): Econometrics by Example, First Edition, Palgrave, MacMillan.[GJX]
- AH Studenmund: Using Econometrics: A Practical Guide, Fifth Edition, Pearson Education [SM]

Assessment

Evaluation will be 50% (internal lab exam in GRETL), 40% (Internal Written Exam: MCQ) and 10% for attendance and class participation.

Assessments:

You will have several assessments throughout the course. The classes will include lecture, lab sessions and the assessment will also be done continuously based on your performance in understanding the software and also your efficiency in understanding various econometric problems using GRETL.

Exams: There will be no assignment for the course. There will be a final exam (40% of your grade). The final exam will be held according to university schedule.

Academic Integrity: Academic Honesty, Cheating, and Plagiarism as per university policy.

Attendance Policy: As per University policy for any other regular course degree course. Course Contents

Syllabus

30 Hrs

Head of the beautonene PG Department of Tconomic Mahatma Gandhi College Thiomananthaouram

Module I: Simple Linear & Multiple Regression Model

SRUTHTS Assistant Professor Department of Economics Mahatma Gandhi College, TVPM

10 Hrs

Introduction to Econometrics -The concept of PRF & SRF -Significance of stochastic error term-Method of ordinary least squares- Assumptions underlying the method of least squares-Properties of estimators- Gauss Markov Theorem-Coefficient of determination, r2 -Hypothesis testing- t and F tests-P value- Practical versus statistical significance-PredictionMultiple coefficients of determination R2 and adjusted R2-Hypothesis testing-Testing the overall significance of the regression model-F test

Module III: Econometric Problems and their testing

10 Hrs

Multicollinearity- Nature, consequences, detection and remedial measures-Autocorrelation-Nature, consequences, detection, and remedial measures- Heteroskedasticity-Nature, consequences, detection and remedial measures.

Module III: Dummy Variable Regression Model

10 Hrs

Dummy variable-ANOVA models-ANCOVA models-Dummy variable trap-Dummy variables and seasonal analysis-Structural analysis-Piecewise linear regression.

Important: This syllabus is intended to give the student guidance in what may be covered during the semester and will be followed as closely as possible. However, the instructor reserves the right to modify, supplement and make changes as the course needs arise.

Multiple Regression Analysis: Further Issues
JW: Chapter 6
Multiple Regression Analysis with Qualitative Information

JW: Chapter 7 and SW: Chapter 11

Heteroskedasticity

Prepared by

SRUTHI S Assistant Professor Department of Economics Mahatma Gandhi College, TVPM

Head of the Department PG Department of Economics Mahatma Gandhi College Thiruvananthapuram

PRINCIPAL Mahatma Gandhi College Thiruvananthapuram

Department of Economics Mahatma Gandhi College, Tvpm

Data analysis using GRETL (EC 32)

September 15th 2021

NAME: SECTION:

paper with answerkey restion

Instructions: Calculators are allowed. Total Marks: 20 points.

- 1. [1 point] In the equation $y = \beta_0 + \beta_1 x + u$, β_0 is the ______
 - (a) dependent variable
 - (b) independent variable
 - (c) slope parameter

(d) intercept parameter

- 2. [1 point] If an independent variable in a multiple linear regression model is an exact linear combination of other independent variables, the model suffers from the problem of
 - (a) perfect collinearity
 - (b) homoskedasticity

- (c) the independent variables have no exact linear relationships among them
- (d) the regression model relies on the method of random sampling for collection of data
- 5. [1 point] A model suffers from the problem of endogeneity if
 - (a) OLS estimators are not predicted precisely.
 - (b) The unobservables do not have constant variance.
 - (c) Zero conditional mean assumption does not hold.
 - (d) When x_i is uncorrelated with u
 - **6.** [1 point] True or False: The estimate $\hat{\sigma}$ is interesting because it is an estimate of the standard deviation of the unobservables affecting y. In other words, it estimates the standard deviation in y after the effect of x has been taken out and is called the standard error (s.e.). **True**
 - 7. [1 point] True or False: The term "linear" in a multiple linear regression model means that the equation is linear in the independent variables. False
 - **8.** [1 point] True or False: The regression model, ceosalary = $\hat{\alpha}_0 + \hat{\alpha}_1 ceoten + \hat{\alpha}_2 ceoten^2 + \hat{\alpha}_3 gender$ violates the assumption MLR.3. False
 - **9.** [1 point] True or False: Overspecifying a model that satisfies MLR. 1. through MLR. 4. has undesirable effects on the unbiasedness and efficiency of OLS estimators. False
 - 10.[1 point] True or False: MLR. 3. rules out certain relationships between explanatory variables and MLR. 4. rules out relationships between unobservables and regressors. True
 - 11. [2 points] True or False: Larger the sampling variance in x in an SLR model, larger the sampling variance for OLS estimators. False
 - 12. [2 points] CEO salary and return on equity regression model looks like the following

salary = 963.191 + 18.501roe $n = 209, R^2 = 0.0132$

The percentage of salary variations for CEO's salary left unexplained by roe is

- (a) 13.2%
- (b) 1.32%

(c) 98.68%

(d) 18.501% Ans: C

13. Using data on 5000 college students, the following equation was estimated by OLS

colGPA = 1.467 - 0.0128hsperc + 0.00192sat $n = 5000 R^2 = 0.23.4$ where *co/GPA* is measured on a 4-point scale, *hsperc* is the percentile in the high school graduating class (defined so that, for example, *hsperc* = 5 means the top 5% of the class), and *sat* is the combined math and verbal scores on the student achievement test.

(a) [2 points] The predicted college GPA when hsperc = 20 and sat = 1,050 is:

- i. 2.676
- ii. 3.227
- iii. 2.978

iv. 3.576 Ans: ii

- (b) **[2 points]** Suppose that two high school graduates, A and B, graduated in the same percentile from high school, but Student A's SAT score was 140 points higher (about one standard deviation in the sample). What is the predicted difference in college GPA for these two students?
 - i. 0.2688
 - ii. 1.0934
 - iii. 0.3012
 - iv. 0.2072 Ans: i
- (c) [2 points] Holding *hsperc* fixed, what approximate difference in SAT scores leads to a predicted *colgpa* difference of .50, or one-half of a grade point?

eraduates, A a

- i. 338
- ii. 200
- iii. 220
- iv. 260 Ans: iv

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SRUTHI S Assistant Professor Department of Economics Mahatma Gandhi College, TVPM

Venified by

Head of the Department PG Department of Economics Mahatma Gandhi College Thiruvananthapuram

PRINCIPAL Mahatma Gandhi College Thiruvananthapuram

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ACULTY:

SRUTH S Assistant Professor Department of Economics Mahatma Gandhi College, TVPM

PRINCIPAL Mahatma Gandhi College Thiruvananthapuram

PRIVA L G Head of the Department PG Department of Economics Mahatma Gandhi College Thiruvananthapuram

REPORT EC 32: Data Analysis Using GRETL

This is a course designed for final year undergraduate B A Economics or any M.A Economics student who has done a basic course in Econometrics in their undergraduate programme. Only PG students registered for the course. The course is designed to extend students' knowledge of basic econometric concepts and techniques learnt in Econometrics.

GRETL is a powerful free statistical software that allows us numerous ways to analyse, manipulate and present data. This course is designed to provide an introduction to this software, which can perform both basic as well as advanced statistical analyses. It is **not** intended to explain you the statistical and/or econometric methods. Students will be introduced to some basic features of GRETL (e.g., learning how to do data analysis using econometric tools) leading to efficient data management skills.

Due to the lack of availability of laptops students attended the online classes and used the nearby Akshaya centres and took help from their neighbourhood to access GRETL. The COVID-19 restrictions did affect the delivery of the course but within these limitations the course was of benefit to students especially during their project work. Final exam was conducted offline at the campus and was an MCQ type exam. At that time lab exam was also conducted and evaluated in the campus itself. Most of the students did very well as very basic econometric analysis were only asked for. The course intends to equip students to apply statistical and econometric analysis in their project works.

The students suggested for more lab hours and the department rectified that in the upcoming courses. Further the department has decided to bring in more U G students as well for the course next year.

SRUTHI S Assistant Professor Department of Economics Mahatma Gandhi College, TVPM

PRINCIPAL Mahatma Gandhi College Thiruvananthapuram

PRIYA L G Head of the Department PG Department of Economics Mahatma Gandhi College Thiruvananthapuram

English for Career Department of English 2021 – 22

Notice

The P.G department of English is planning to conduct an Add on course English for career from August 2022 onwards. Students who are interested please contact the course co-ordinators Vani Jyothi and Aparna .R. Menon, Dept of English.

GOPAL Associate Professor and Head P.G. Dept. of English Mahatma Gandhi College Research Guide, University of Kerala Thiruvananthapuram

Prihcipal Mahatma Gandhi College Thiruvananthapuram

1

COURSE DURATION: 30 HOURS From August 2022 onwards

Interested students please contact Department of English

ENGLISH FOR CAREER

ADD ON COURSE ON

MAHATMA GANDHI COLLEGE, TRIVANDRUM DEPARTMENT OF ENGLISH

ON

SYLLABUS

ADD- 0N COURSE: ENGLISH FOR CAREER

No. of instructional hours per week: 2.5 (Total :30 hours)

Module 1

Phonetics and Phonology

Elements of Phonology- pitch, intonation, stress, accent

Module 2

Listening and Speaking Skills

Building up interpersonal skills- confidence building measures through speaking exercises- Interview skills- Grammar for effective speaking

Module 3

Business Writing

Reports, CVs and resumes, letters, job applications, memos, notices, minutes-

Grammar for effective writing

Module 4

Corporate communication

Roleplay, Presentation, Group Discussion- Body language

Dr. VIDYA RAJAGOPAL Associate Professor and Head P.G. Dept. of English Mahatma Gandhi College Research Guide, University of Kerala Thirnyananthapuram

DEPARTMENT OF ENGLISH MAHATMA GANDHI COLLEGE THIRUVANANTHAPURAM ADD-ON COURSE ENROLMENT LIST (2022-23)

The following students of UG 2021-23 batch enrolled for the Add-on Course (English for Career) offered by the Department of English.

SI No.			signature
1	23021118001	AARDRA A.S.	Aarde
2	23021118002	ABHAY A.S.	A-6Leye.
3	23021118005	AKHIL PRADEEP	Achit
4	23021118007	AMBADI SURESH S.S.	Henberger.
5	23021118008	ANAND S.	atraid S
6	23021118009	ARCHA M.S	Kache N.S.
7	23021118014	GADHA M. LEKSHMY	Gradhe
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15	11521118004	ABHISHEK J.S.	Appropriete
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17	11521118017	ARYA A.S.	ASUDAS
18	11521118018	ARYA J.	Asua
19	11521118022	DEVANAND S.R	Devanand
20	22021118001	ADWAITH J.S.	Dinth
21	22021118002	AKHIL S.S.	ALL DE
22	22021118004	AMRUTHENDU M.	Agnouthendu
23	22021118006	ARATHY R.	ading
24	22021118007	ARSHA PRASAD	Coffee
25	22021118011	HARIKRISHNAN D.	Hoenkowho

26	22021118012	NANDANA MUKUNDAN	Narde
27	22021118014	NEETHU S.	Nerthy.
28	22021118018	SARAN PRASAD	long.
29	22021118021	VISHNU V.S	Stichar
30	15921118001	ABHIMA T.	Alahim
31	15921118002	ADITH B.A	SAAdrib
32	15921118006	AROMAL.S.	Atomato
33	15921118007	ASWIN UNNI	Dewin
34	15921118008	AVANI ANIL	Kershnalsing
35	15921118010	KRISHNAPRIYA R.R.	Nonaghung Bigen
36	15921118011	NANDHANA SAJEEV	Nanaharna.
37	15921118013	NANDIKA M.S.	Mandeka
38	15921118014	PARVATHY KRISHNA S.S.	Posvathyforthe
39	15921118015	PRANAV S.	Doct-
40	15921118016	PRANAV P.	Rand
41	15921118019	SOORYA S. NAIR	Doorja, S. Novy,
42	15921118020	VYSHNAVI D.	Withmaye
43	15921118022	ABHIRAM S.	bletter
44	15921118023	ACHUTH BALAKRISHNAN	Balanth
45	25021118001	ADITHYAN R.	-Delethyan -
46	25021118002	AMRITHA U.R	A
47	25021118005	HARISREE A.S. NAIR	Hanspee
48	25021118013	ATHUL SURESH	p. Hursh
49	25021118014	DEVIKA A.V	1 cui togat
50	25021118019	NANDANA S.A	No.
51	25021118022	NAVAMI N.S.	Navanie
52	13021118009	KRISHNA SAURABH S.G.	And man
53	13021118019	ALBIN SANTHOSH	Atban
54	13021118003	ANAMIKA D.P	Manako
55	13021118005	DEVU A.S	Paut
56	13021118014	NEHA V.S	AP
57	13021118033	JOSHNA JOHNSON	Jashga Johnson
58	13021118021	ANANTHARAMAN D.P	b. A. abamaster
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Mahatma Gandhi College, Thiruvananthapuram ADD-ON COURSE: ENGLISH FOR CAREER

Max marks : 25

I. Answer all questions.

Mark the stress of the following words:
 a. examination b. photo c. teacher d. musician e. college

2. Prepare the minutes of a shareholders' meeting in a company.

3. Which are the consonant sounds in English? Give an example each.

(3x5 = 15 marks)

II. Answer the following :

4. Prepare a cover letter and resume for applying for the post of Executive Chef in a reputed restaurant.

 $(1x \ 10 = 10 \ marks)$

MAHATMA GANDHI COLLEGE DEPARTMENT OF ENGLISH ADD-ON COURSE (2021-22): ENGLISH FOR CAREER MARKLIST

SI No.	Candidate code	Name	Marks (out of 25)
1	23021118001	AARDRA A.S.	23
2	23021118002	ABHAY A.S.	23
3	23021118005	AKHIL PRADEEP	20
4	23021118007	AMBADI SURESH S.S.	23
5	23021118008	ANAND S.	22
6	23021118009	ARCHA M.S	23
7	23021118014	GADHA M. LEKSHMY	22
8	23021118015	GOURI R.	23
9	23021118016	JISHA L.	23
10	23021118018	MEENAKSHI A.M.	22
11	23021118019	PARTHAN A.S.	22
12	23021118020	PARVATHY PRATHAP	23
13	23021118022	SAJIN R.	20
14	23021118024	SNEHA A.	20
15	11521118004	ABHISHEK J.S.	20
16	11521118007	AJIL KRISHNAN G.	22
17	11521118017	ARYA A.S.	23
18	11521118018	ARYA J.	23
19	11521118022	DEVANAND S.R	22
20	22021118001	ADWAITH J.S.	23
21	22021118002	AKHIL S.S.	22
22	22021118004	AMRUTHENDU M.	21
23	22021118006	ARATHY R.	20
24	22021118007	ARSHA PRASAD	23
25	22021118011	HARIKRISHNAN D.	19
26	22021118012	NANDANA MUKUNDAN	23
27	22021118014	NEETHU S.	23
28	22021118018	SARAN PRASAD	23
29	22021118021	VISHNU V.S	23
30	15921118001	ABHIMA T.	22
31	15921118002	ADITH B.A	23
32	15921118006	AROMAL.S.	23
33	15921118007	ASWIN UNNI	22

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MAHATMA GANDHI COLLEGE DEPARTMENT OF ENGLISH ADD-ON COURSE (2021-22): **ENGLISH FOR CAREER** MARKLIST

34	15921118008	AVANI ANIL	22
35	15921118010	KRISHNAPRIYA R.R.	21
36	15921118011	NANDHANA SAJEEV	22
37	15921118013	NANDIKA M.S.	23
38	15921118014	PARVATHY KRISHNA S.S.	22
39	15921118015	PRANAV S.	22
40	15921118016	PRANAV P.	23
41	15921118019	SOORYA S. NAIR	23
42	15921118020	VYSHNAVI D.	22
43	15921118022	ABHIRAM S.	22
44	15921118023	ACHUTH BALAKRISHNAN	23
45	25021118001	ADITHYAN R.	23
46	25021118002	AMRITHA U.R	22
47	25021118005	HARISREE A.S. NAIR	21
48	25021118013	ATHUL SURESH	22
49	25021118014	DEVIKA A.V	22
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53	13021118019	ALBIN SANTHOSH	23
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66	13021118028	SAFALYA S. 2	
67	13021118037	SIDDHI SANTHOSH	22
68	13021118031	SYAMA S.S	22

MAHATMA GANDHI COLLEGE DEPARTMENT OF ENGLISH ADD-ON COURSE (2021-22): ENGLISH FOR CAREER MARKLIST

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Add-on Course(2021-22): ENGLISH FOR CAREER REPORT

The Add-on course offered by the Department of English, Mahatma Gandhi College titled,English for Career, was formally inaugurated on 12 August 2022. Principal, Dr V.M.Anandakumar presided over the function. DrChitra V.S, HoD in-charge delivered thewelcome address. The inaugural session was handled by Sri Renjith Babu(Senior IELTS Trainer, SantamonicaPvt Ltd, on the topic 'English Language for SelfEvolution'.

70 students from our various UG programmes enrolled for the course. The classes were conducted as 30 minute sessions, during zero hours on weekdays. The course focused on enhancing the language skills of students with special emphasis on career. Certificates were provided to the students on the successful completion of the course.

Dr. VIDYA RAJAGOPAL Associate Professor and Head P.G. Dept. of English Mahatma Gandhi College Research Guide, University of Kerala Thiruwananthapuram

Mahatma Gandhi College Thiruvananthapuram



LATEX Programming Department of Mathematics 2021 – 22

Notice

Mahatma Gandhi College ,Thiruvananthapuram

Department of Mathematics

Starting an Add-on Course on

LaTex Programming

for the academic Year 2021-22

Interested students can join the Program

Contact - Dr K Radhakrishnan (9447018612)

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Prihcipal Mahatma Gandhi College Thiruvananthapuram

Mahatma Gandhi College, Thiruvananthapuram Department of Mathematics

Add-on Course on LATEX Programming (Course Code : MGMM01, Program Code : AD02) (2021-22)

Aim of the Course : To make awareness of LATEX documentation program toPG students of various Science department of the college.

Duration of the Course : 30 Hours

Total Intake : 18 Students

Mode of Selection : On merit basis (from the applicants)

Syllabus

Module 1 Introduction to UNIX Commands

Introduction to Linux Operating System, Basic UNIX commands – login, directory structure and commands, different file related commands, different file editors, related commands etc.

Module 2 Introduction to LATEX

Computer typesetting using LATEX, running LATEX, different fonts, alignments, setting tabs, underline, setting margins, different documentclasses, special symbols, footnotes, drawing tables, multi columns, multi rows, drawing lines, itemizing, enumerating

Module 3 Mathematical Symbols

Creating mathematical articles, different mathematical symbols and notations, fractions, matrices, arrays, equations, Greek symbols, defining commands, theorems.

Mahatma Gandhi College Thiruvananthampam

Romlerman R HoD, anathr

Mahatma Gandhi College, Thiruvananthapuram Department of Mathematics

Add-on Course on LATEX Programming (2021-22)

List of Participants

SI.	Name	Phone No	Email-ID	Class
No				Class
1	ABHIRAMI. A	9188010829	abhiramiammu2110@gmail.com	II MSc Physics
2	ADWAITHA J H	7306946887	adwaithahari12@gmail.com	II MSc Physics
3	ANAKHALEKSHMI V S	9526459721	anakhalekshmi8@gmail.com	II MSc Physics
4	APARNA SANKAR R S	8590602107	sankaraparna16.3@gmail.com	II MSc Physics
5	ARATHY AJ	6282323931	arathyaj3@gmail.com	II MSc Physics
6	ARDRA.A.K	8943850039	ardrachinnu2000@gmail.com	II MSc Physics
7	ASWIN R.L.	9633656070	aswinrlchempoor4@gmail.com	II MSc Physics
8	DEVIKA J A	7034063400	devikaja29@gmail.com	II MSc Physics
9	HARSHA S	9645416423	jharsha95@gmail.com	II MSc Physics
10	K A HARITHA	8075122646	haritha23hari@gmail.com	II MSc Physics
11	KASYAP S ASHTTAMAN	8606767095	ashttaman2@gmail.com	II MSc Physics
12	KEERTHANA P.S	8129136368	keerthanaps2016@gmail.com	II MSc Physics
13	KEERTHI VIKRAMAN	9061919135	kcerthiv734@gmail.com	II MSc Physics
14	MEENAKSHI. C. S	9188494305	meenakshisanal013@gmail.com	II MSc Physics
15	NANDITHA M KESH	8590490118	nandithamurukesh@gmail.com	II MSc Physics
16	RESHMA SANTHOSH J.S	7593916171	reshmasanthoshjs2018@gmail.com	II MSc Physics
17	SALMA SURUMI	8086594232	salmasurumi99@gmail.com	II MSc Physics
18	VARSHA. R	9947130486	varshar1648@gmail.com	II MSc Physics

Signature of HOD Ram Kumur. R

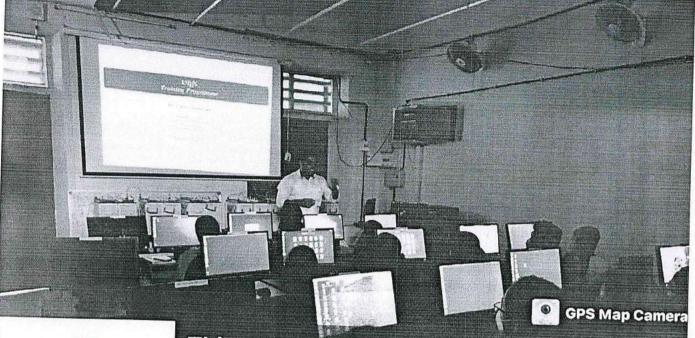
Signature of Course Coordinator S. & Redhebashrow

Principal Mahatma Gandhi College Thiruvananthapurant





Thiruvananthapuram, Kerala, India GWJV+V78, M G College Rd, Sree Nagar, Kesavadasapuram, Thiruvananthapuram, Kerala 695004, India Lat 8.532222° Long 76.943095°





Thiruvananthapuram, Kerala, India GWJV+V78, M G College Rd, Sree Nagar, Kesavadasapuram, Thiruvananthapuram, Kerala 695004, India Lat 8.532223° Long 76.943131° 19/08/22 11:13 AM

Mahatma Gandhi College

Department of Mathematics

Add on Course on Latex Programming (2021-22) Examination, August, 2022

Time: 3 Hours

Max. Marks: 25

Answer all the questions Each question carries 5 marks

I. Write a latex file to obtain the following output:

Mahatma Gandhi College, Thiruvananthapuram Fifth Semester BSc. Examination, February, 2020

Theory of Equations and Vector Analysis

Time : 1 hours

Total Marks: 10

- 1. One root of $x^3 7x^2 + 17x 11 = 0$ is $3 \sqrt{-2}$. Find other roots.
- 2. If $\alpha_1, \alpha_2, \ldots, \alpha_n$ are the roots of the equation $a_0x^n + a_1x^{n-1} + \cdots + a_{n-1}x + a_n = 0$, find the value of $\alpha_1 + \alpha_2 + \cdots + \alpha_n$.
- 3. If α , β and γ are the roots of the equation $x^3 + px^2 + qx + r = 0$, form the equation whose roots are $\alpha \frac{1}{\beta\gamma}$, $\beta \frac{1}{\gamma\alpha}$ and $\gamma \frac{1}{\alpha\beta}$.
 - 4. Verify Green's theorem in the plane for

$$\int_C \left(xy \, dx + x^2 \, dy \right)$$

where C is the curve enclosing the region bounded by the parabola $y = x^2$ and the line y = x.

- 5. (a) State Stoke's theorem.
 - (b) State Descarate's rule of sign.

II. Write a latex file to obtain the following output:

The following table gives the perimeter and area of some two dimensional structures.

Sl.No.	Structure	Dimension	Perimeter	Area
1.	Triangle	Sides a, b, c	a+b+c	$\sqrt{s(s-a)(s-b)(s-c)}$
2.	Rectangle	Sides l, b	2(l+b)	lb
3.	Square	Side a	4a	a^2
4.	Circle	Radius r	$2\pi r$	πr^2

Remarks:

- 1. For triangle, $s = \frac{a+b+c}{2}$.
- 2. For circle, value of $\pi = \frac{22}{7}$.

III. Write a latex file to obtain the following output:

The Fourier integral representation of a function f(x) is defined as

$$f(x) = \frac{1}{\pi} \int_0^\infty \left(A(s) \cos sx + B(s) \sin sx \right) ds$$

where

$$A(s) = \int_{-\infty}^{\infty} f(x) \cos sx \, dx$$
$$B(s) = \int_{-\infty}^{\infty} f(x) \sin sx \, dx$$

Note that this representation is possible if

- 1. f(x) is piecewise continuous in every finite integral
- 2. f(x) has right-hand derivative and left-hand derivative at every point
- 3. f(x) is absolutely integrable

IV. Write a	latex file t	o obtain	the fo	llowing output:	
-------------	--------------	----------	--------	-----------------	--

No.	Planet	Diameter(km)
1	Mercury	4878
2	Venus	12104
3	Earth	12756
4	Mars	6794
5	Jupiter	142984

Based on this data, answer the following questions:

1. Find the average diameter of these planents. Use the formula

$$\bar{x} = \frac{x_1 + x_2 + \dots + x_n}{n}.$$

2. If $r = \frac{d}{2}$ where r is radius and d is diameter, then find the radius of earth.

V. Write a latex file to obtain the following output:

The system of equations

$$x + y - z = 1$$
$$x - y + z = 1$$
$$x + y + z = 1$$

can be written in matrix form as

$$\begin{bmatrix} 1 & 1 & -1 \\ 1 & -1 & 1 \\ 1 & 1 & 1 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix}.$$

Note that the system of equations AX = B has

- 1. solution if and only if rank(A) = rank(AB)
- 2. unique solution if rank(A) = rank(AB) = n, the number of variables
- 3. many solutions if rank(A) = rank(AB) < n, the number of variables

Mahatma Gandhi College, Thiruvananthapuram **Department of Mathematics**

Add-on Course on LATEX Programming (2021-22)

Mark List of Examination

Maximum Marks : 25

S1.	Name	Marks
No		
1	ABHIRAMI. A	22
2	ADWAITHA J H	.23
3	ANAKHALEKSHMI V S	22
4	APARNA SANKAR R S	20
5	ARATHY AJ	21
6	ARDRA.A.K	24
7	ASWIN R.L.	23
8	DEVIKA J A	23
9	HARSHA S	20
10	K A HARITHA	22
11	KASYAP S ASHTTAMAN	32 Ab
12	KEERTHANA P.S	21
13	KEERTHI VIKRAMAN	23
14	MEENAKSHI. C. S	24
15	NANDITHA M KESH	24
16	RESHMA SANTHOSH J.S	22
17	SALMA SURUMI	20
18	VARSHA, R	21

Signature of HOD Ramkumur R

Signature of Course Coordinator A. K. Radbeh

Principal Mahatma Gandhi College Thiruvananthapuram

Mahatma Gandhi College, Thiruvananthapuram Department of Mathematics

Report on Add-on Course on LATEX Programming

2021-22

The Department of Mathematics invited application for the Latex program and 18 students of II year MSc Physics class were selected for the course. The Principal of the College inaugurated the programme on 08-06-2022. 30 hours of classes on LATEX programme were given to the participants. The classes wee taken by Dr. K. Radhakrishnan, Associate Professor, Department of Mathematics and Dr. Ullas Chandran, S V, Assistant Professor, Department of Mathematics, MG College, Thiruvananthapuram. The evaluation and feed back session was conducted on 26-08-2022. The certificates for the participants were issued on 29-08-2022 by the Principal.

Head of the Department

Rankum R

Course Coordinator M-K, Radheland

Principal

LINUX Operating System Department of Mathematics 2021 – 22

Notice

Mahatma Gandhi College ,Thiruvananthapuram

Department of Mathematics

Starting an Add-on Course on

Introduction to LINUX operating System

for the academic Year 2021-22

Interested students can join the Program Contact - Dr Ullas Chandran S V (8891711284)

Principal

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Mahatma Gandhi College, Thiruvananthapuram Department of Mathematics

Add-on Course on Introduction to Linux Operating System (Course Code : MGMM02, Program Code : UG-01) 2021-22

Aim of the Course : To make awareness of Linux operating system and UNIX commands to UG students of First year BSc Mathematics Students of the college.

Course Outcomes:

CO1:To understand the basics of the operating systems UNIX and LINUX CO2: To understand the file management using these operating systems CO3.To understand file permission and ownerships

Duration of the Course : 30 Hours

Total Intake : 40 Students

Mode of Selection : Interested students of I BSc Mathematics Class

Syllabus

Module 1 Introduction to UNIX and LINUX

History and development of Unix and Linux, Comparisor of Unix and Linux distributions, Accessing the command line interface (Terminal)

Basic UNIX commands - login, directory structure and commands, different file related commands, different file editors, related commands etc.

Module 2 File Management

Understanding the file system hierarchy. Listing files and directories (ls), Changing directories, Creating, coping, moving and deleting files. Working with text files, text editing with text editors. Searching for texts in files.

Module 3

File Permissions and Ownerships

Understanding UNIX file permissions, Modifying file permissions (chmod, chown), Special permissions, Creating and extracting compressed files, Managing archives with tar.

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and the second second Principal Mahatma Gandhi College Thiruvananthapuram

MAHATMA GANDHI COLLGE, THIRUVANANTHAPURAM DEPT.OF MATHEMATICS

Add-on course on Introduction to Linux Operating System

List of participats

SL.No.	Name	email id	Phone no.
1	AKSHAY. A	akshayajay0724@gmail.com	9605303823
2	AMRUTHENDU M	aammu4107@gmaail.com	7736040866
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4	ARATHY R	arathyanir@gmail.com	7025268701
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30 0	GAYATHRY P V	gayathrypv023@gmail.com	8547734405
31 (GOPIKA G	gopikagopuzz529@gmail.com	9567238923
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33 H	HARI MURALI	harimurali1221@gmail.com	7356573047
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35 N	M S ATHUL	athulmurukan18@gmail.com	9188355387
36 5	SANGEETH KRISHNA. S. R	krishnasangeeth146@gmail.com	7593011586
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SANKAR GANESH	sankarmsstark@gmail.com	9778545408
38 N	NAVEENA V	naveenavinayan@gmail.com	6238450225
	SIKHA S	sikhasudhin002@gmail.com	7736065945
	EENA.V.KUMAR	veenakumar581@gmail.com	7907239385

Principal Mahatma Gandhi College Thiruvananthapuram

Time: 2 Hours

Maximum Marks: 40

Instruction: Answer all questions

Part-A

Multiple Choice Questions (MCQs) Each carry 1 mark $(5 \times 1 = 5)$

1. Which of the following is not a Linux distribution?

- a) Ubuntu
- b) Fedora
- c) Apache

d) CentOS

2. What is the default shell in most Linux distributions?

a) Bash

b) Zsh

c) Fish

d) Ksh

3. Which command is used to list all files including hidden ones in Linux?

- a) Is-h
- b) Is-a
- c) Is-I
- d) Is-R

4. In Linux, what does the command 'chmod 755 file.txt' do?'

a) Gives read and write permissions to the owner, and read-only permissions to others.

b) Gives read, write, and execute permissions to the owner, and read-only permissions to others.

c) Gives read, write, and execute permissions to the owner, group, and others

d) Gives read-only permissions to the owner, and read, write, and execute permissions to others.

5. Which command is used to install packages in Debian-based Linux distributions?

a) apt-get

b) yum

c)/pacman

d) zypper

Part-B

Short Answer Questions. Each carries 5 marks $(3 \times 5 = 15)$

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6. Explain the difference between 'rm' and 'rmdir' commands in Linux.

7. How do you check the disk space usage on a Linux system?.

8. Describe the purpose of the 'grep' command in Linux.

Part-C

(Long Answer Questions. Each carries 10 marks $(2 \times 10 = 20)$)

- 9. Explain the directory structure of a typical Linux system. Include the purpose of commonly found directories.
- 10. Describe the steps involved in creating a new user account in Linux. Also, explain how to grant sudo privileges to this user.

Mahatma Gandhi College Thiruvananthapuram

MAHATMA GANDHI COLLEGE, THIRUVANANTHAPURAM DEPARTMENT OF MATHEMATICS Add-on course on LINUX operating System(MGMM02) Marklist of Assessment

SL.NO.	NAME	Marks (out of 20)
1	AKSHAY. A	20
2	AMRUTHENDU M	20
3	ANASWARA.P	20
4	ARATHY R	20
5	ARSHA PRASAD N	18
6	ASWANI A.S	20
. 7	B AMAL BHASKAR	18
8	GOWTHAM SANKAR S	20
9	HARIKRISHNAN D	20
10	NANDANA MUKUNDAN	20
11	NANDU G.P	20
12	NEETHU S	20
13	NIDHUN S R	15
14	SANUSH .S	17
15	SARAN PRASAD V	20
116	SREELEKSHMI S S	17
17	VAISHNAV. I	14
18	VISHNU V. S	15
19	ABHIJITH D	15
20	ADARSH RAGHAVAN	17
21	AFRAN S	15
22	AMAL KRISHNA M	14
23	AMALA UNNI B S	20
24	AMALU AJAY	20
25	ANANTHA KRISHNAN	13
26	ANUPAMA R.NAIR	18
27	ASWANI A L	20
28	DEVI NANDANA .P.S	19
29	DHANUSH J	14
30	GAYATHRY P V	20
31	GOPIKA G	20
32	GOURI	20
33	HARI MURALI	17
34	JOBITHA MOL J J	19
	M S ATHUL	20
36	SANGEETH KRISHNA. S. R	15
37		20
38	NAVEENA V	20
39	SIKHA S	20
	VEENA.V.KUMAR	20

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Principal Mahatma Gandhi College Thiruvananthapuram

Mahatma Gandhi College, Thiruvananthapuram

Department of Mathematics

Report of Add-on Course on Introduction to LINUX Operating System

2021-22

The Department of Mathematics conducted an add-on course on Introduction to LINUX Operating System for the first year students of the BSc Mathematics class of this college. The Principal of the College inaugurated the programme on 25-10-2021. 30 hours of classes on LINUX operating system and UNIX commands were given to the participants. The classes were taken by faculty of the Department of Mathematics, MG College, Thiruvananthapuram. The evaluation and feedback session was conducted on 24-08-2022. The certificates for the participants were issued by the Principal.

Head of the Department

Course Coordinator

Head Department of Mathematics Mahatma Gandhi Cellego Thiruvananthapuram

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Timeline and Evolution of Physics Department of Physics 2021 – 22

Add-on Course on TIMELINE AND EVOLUTION OF PHYSICS: From Ancient to the Modern

A course on how modern physics

came to be what it is today, and how it continues to grow more and more fascinating....



Principles

What are the key principles that decode the secrets of the nature...

Experiments

What were those milestone experiments that threw light over the unknown realms of nature..

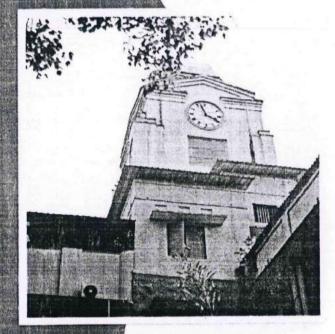


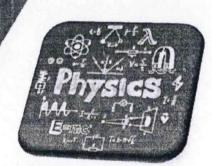
People

Who were those great minds who played key roles in paving the milestones, and what were the paths they took...



DEPARTMENT OF PHYSICS





PRINCIPAL Mahatma Gandhi Collega Thiruvananthapuram

Enrollment List Of students 2021 - 22

SI No:	Candidate Code	Name of the Candidate
1	23020118001	ABHIRAMI R.SEKHAR
2	23020118002	ABHISHEK G S
3	23020118003	ADITHYAN . S
4	23020118004	AJAY S
5	23020118005	AKSHAYA . A . S
6	23020118006	AMAL. A. NAIR
7	23020118007	ANJAI VINOD
8	23020118008	ANJANA JOSE. J
9	23020118009	ANOOP S
10	23020118010	APARNA J S
11	23020118011	ARDRA S
12	23020118012	ARYA M.R.
13	23020118013	DEVA NARAYAN S
14	23020118014	GG KRISHNAN
15	23020118015	KARTHIKA. S. NAIR
16	23020118016	LEKSHMI SURESH
17	23020118017	MUJEEB RAHUMAN.S
18	23020118018	NANDANA GOPAN
19	23020118019	NIKITHA SYAM
20	23020118020	PALLAVI A D
21	23020118021	PRANAV. P
22	23020118022	REMYA B
23	23020118023	RENJITH LAL. S. B
24	23020118024	ROHITH U
25	23020118025	ROOPA D M
26	23020118026	SOORAJ S
27	23020118027	VISAKH S
28	23020118028	VISAKH.B
29	23020118029	ABHUITH M
30	23020118030	ABHIRAMI B S
31	23020118031	ABHISHEK P B
32	23020118032	ABHISHEK. A
33	23020118033	ADHWAITH.S.J
34	23020118034	AKSHAY J.M
35	23020118035	ANAND P NAIR
36	23020118036	ANIKA M S

37	23020118037	ANOOP A S
38	23020118038	ARATHY. L .S
39	23020118039	ASWIN G L
40	23020118040	ASWIN J S
41	23020118041	ASWIN M S
42	23020118042	BHARATHKRISHNA P
43	23020118043	DETHAN R S
44	23020118044	GAUTHAMY ANIL
45	23020118045	KISHORE MADHAV
46	23020118046	LEKSHMI PRADEEP. S
47	23020118047	NANDA. S. S
48	23020118048	PREETHI P.S.
49	23020118049	SABARIKANTH S S
50	23020118051	SNEHA P
51	23020118052	SYAMKUMAR. S
52	23020118053	VISHAL. B
53	23020118054	JAZIM IBRAHIM
54	23020118055	NANDANA. A.S
55	23020118056	NOUREEN S N
56	23020118057	SREENADH.S
57	23020118058	PRAVEENA V GOPAL
58	23021118001	AARDRA N A
59	23021118002	ABHAY A.S
60	23021118003	ABHINAV H B
61	23021118004	ADARSH M.S
62	23021118005	AKHIL PRADEEP P B
63	23021118006	AMAL KISHORE P
64	23021118007	AMBADI SURESH S S
65	23021118008	ANAND S
66	23021118009	ARCHA M.S
67	23021118010	ARYA R L
68	23021118011	ASWIN A S
69	23021118012	AVANTHIKA RAJESH
70	23021118013	BHAGATH A .R
71	23021118014	GADHA M LEKSHMY
72	23021118015	GOURI. R
73	23021118016	JISHA, L
74	23021118017	KANCHANAKRISHNAN
75	23021118018	MEENAKSHI A M
76	23021118019	PARTHAN.A.S
77	23021118020	PARVATHY PRATHAP

78	23021118021	REMYA CHANDRAN R
79	23021118022	SAJIN R
80	23021118023	SIDHARTH J
81	23021118024	SNEHA A
82	23021118025	SREELEKSHMI B
83	23021118026	A ASWAL
84	23021118027	ABHINAV.V.S
85	23021118028	ABIN .A.S.
86	23021118029	ADITHYA RAJU
87	23021118030	AKASH S K
88	23021118031	AKSHAY JOSHUA
89	23021118035	ARJUN DEV. G
90	23021118036	ASWIN DAS S G
91	23021118037	ASWIN S M
92	23021118038	GAUTHAM S NAIR
93	23021118039	GOKUL B S
94	23021118040	GOPIKA L
95	23021118041	KARTHIKA .B.A
96	23021118042	KRISHNAJA. M
97	23021118043	MEGHNA PRAMOD
98	23021118044	NIVEDA N V
99	23021118045	SNEHA S
100	23021118046	SRAVAN S P
101	23021118047	SRUTHI .S
102	23021118048	VISHNU B A
103	23021118049	ATHUL VIJAY V S
104	23021118050	BEENA.P
105	23021118051	MEKHA .U
106	23021118052	RIJU. B.
107	23021118053	SAJITH.S
108	23021118054	VISHNU S
109	23019118038	ASWANTH V S
110	23019118039	ASWIN DEV J
111	23019118040	DILNA DAMODARAN
112	23019118041	GOVIND C
113	23019118042	HARIGOVIND J R
114	23019118043	HARITHA L H
115	23019118044	JAGAN G PILLAI
116	23019118045	MARIA SEBASTIAN
117	23019118046	NIKHITHA A K
118	23019118047	S BIDHU BHOOSHAN

119	23019118048	UDAYALAL R
120	23019118049	VAISHNAVI PRASAD

PRINCIPAL Mahatma Gandhi College Thiruvananthapuram

Syllabus

(30 Hours)

TIMELINE AND EVOLUTION OF PHYSICS : From Ancient to the Modern

PRINCIPLES

Aristotelian ideas - Archimedes principle - Heliocentrism - Laws of motion - Snell's law - Coulomb's law - Kinetic theory of gas - Ohm's law - Laws of electromagnetism - Laws of Thermodynamics -Radioactivity - Theory of relativity: special and general - Planck's quantum hypothesis - Uncertainty principle - Hubble's law - Big bang theory - Standard Model - Quantum gravity

EXPERIMENTS

Newton's discovery of spectrum - Cavendish's weighing of Earth-Joule's demonstration of conservation of energy - Foucault pendulum -Young's double-slit experiment - Discovery of x-rays - Michelson-Morley experiment - Thomson's experiment - Millikan's oil drop experiment - Stern-Gerlach experiment - Rutherford gold foil experiment - Rosalind Franklin's DNA radiograph - Large Hadron Collider - LIGO experiment

PEOPLE

Anaximander - Archimedes - Galileo Galilei - Isaac Newton - Michael Faraday - James Clark Maxwell - Max Planck - Ernest Rutherford - Niels Bohr - Albert Einstein - Erwin Schrodinger - Louis de Broglie - Werner Heisenberg - Paul Dirac - Richard Feynman - S. Chandrasekhar - S N Bose - C V Raman

References

Physics in 50 Milestone moments by James Lees (Quad Books)

Science: A history in 100 experiments by John Gribbin and Mary Gribbin (William Collins)

Test Paper

- 1. The property of object at rest to remain at rest is known as
 - a) Inertness
 - b) Inertia
 - c) Resistance
 - d) sluggishness
- 2. Coulomb's Law is valid for _____
 - a) Only point charge
 - b) For both point charge and distributed charge
 - c) Only distributed charges
 - d) Neither distributed nor point charge
- 3. What is thermodynamics?
 - a) study of the relationship between heat and other forms of energy
 - b) study of the conversion of chemical energy to other forms of energy
 - c) study of the relationship between mechanical energy to other forms of energy
 - d) study of the conversion of mechanical energy to other forms of energy
- 4. In Young's Double Slit Experiment, if instead of monochromatic light white light is used, what would be the observation?
 - a) The pattern will not be visible
 - b) The shape of the pattern will change from hyperbolic to circular
 - c) Colored fringes will be observed with a white bright fringe at the center
 - d) The bright and dark fringes will change position
 - 5. According to the Big Bang theory, the universe has expanded from
 - a) very high-density and low-temperature state
 - b) very high-density and high-temperature state
 - c) very low-density and high-temperature state
- 6. What did Rutherford conclude from his gold foil experiment?

a) Alpha particles are much smaller than gold atoms.

b) Alpha-particles are doubly-charged helium ions.

c) Radius of the nucleus is about 10^5 times less than the radius of the atom.

d) Most of the Alpha-particles passed through the gold foil.

7. What are gravitational waves?

a) Faint ripples in space time

b) Fourth dimension which is hard to fathom

c) Collision which sends ripples across the universe

d) Both a and b.

8. What is the uncertainty principle proposed by Werner Heisenberg?

a) The principle that states that the position and velocity of a particle cannot be measured simultaneously with infinite precision

b) The principle that states that the energy and time of a particle cannot be measured simultaneously with infinite precision

c) The principle that states that the mass and charge of a particle cannot be measured simultaneously with infinite precision

d) The principle that states that the temperature and pressure of a particle cannot be measured simultaneously with infinite precision

9. The Snell's law can be derived from which type of incidence?

a) Incidence angle

b) Reflected angle

c) Refracted angle

d) Oblique incidence

10. According to Planck's quantum theory, what is the smallest unit of energy that can be emitted or absorbed by an atom?

a) Photon

b) Electron

c) Proton

d) Neutron

Test Paper Marks

				1
SI No:	Candidate Code	Name of the Candidate	20	
1	23020118001	ABHIRAMI R.SEKHAR	20	Abhilton
2	23020118002	ABHISHEK G S	18	Allego
3	23020118003	ADITHYAN . S	18	Aaci
4	23020118004	AJAY S	19	440
5	23020118005	AKSHAYA . A . S	17	4 Star
6	23020118006	AMAL, A. NAIR	17	Addet
7	23020118007	DONIV IALNA	18	Anga lui -
8	23020118008	ANJANA JOSE. J	19	Dangeur
9	23020118009	ANOOP S	20	Anoop
10	23020118010	APARNA J S	20	Chprena
11	23020118011	ARDRA S	20	- haber
12	23020118012	ARYA M.R.	18	Ariga
13	23020118013	DEVA NARAYAN S	15	Teourneep
14	23020118014	GG KRISHNAN	16	Sistman la
15	23020118015	KARTHIKA. S. NAIR	16	antia
16	23020118016	LEKSHMI SURESH	17	6 Bassi
17	23020118017	MUJEEB RAHUMAN.S	17	Maparhann
18	23020118018	NANDANA GOPAN	17	Dalana pan
19	23020118019	NIKITHA SYAM	18	NT
20	23020118020	PALLAVI A D	19	To Park
21	23020118021	PRANAV. P	18	Banar
22	23020118022	REMYA B	18	Jany-
23	23020118023	RENJITH LAL. S. B	19	Labrith
24	23020118024	ROHITH U	20	Robert
25	23020118025	ROOPA D M	20	Boop-
26	23020118026	SOORAJ S	20	lever D
27	23020118027	VISAKH S	17	Visbah
28	23020118028	VISAKH.B	17	Val e u
29	23020118029	АВНІЛТН М	19	ABREATEN
30	23020118030	ABHIRAMI B S	18	change
31	23020118031	ABHISHEK P B	18	Abysherp
32	23020118032	ABHISHEK. A	18	Altesticis
33	23020118033	ADHWAITH.S.J	19	Adwaith
34	23020118034	AKSHAY .J.M	19	Ahshay
35	23020118035	ANAND P NAIR	17	Anongr
36	23020118036	ANIKA M S	17	Anika

37	23020118037	ANOOP A S	18	Anoop
38	23020118038	ARATHY. L .S	18	Staffing
39	23020118039	ASWIN G L	19	Asubahn
40	23020118040	ASWIN J S	17	Agrun
41	23020118041	ASWIN M S	17	Asurin
42	23020118042	BHARATHKRISHNA P S.	19	Thatathering
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PRINCIPAL Mahatma Gandhi College Thiruvananthapurare

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Dr. PADMA KUMAR H Associate Professor Department of Physics Mahatma Gandhi College Thiruvananthapuram-695004 3

Feedback Analysis

SI No:	Candidate Code	Name of the Candidate	Excellent	Very good	Good	Satisfactory	po or
1	23020118001	ABHIRAMI R.SEKHAR	1				-
2	23020118002	ABHISHEK G S	1				
3	23020118003	ADITHYAN. S			1		
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34	23020118034	AKSHAY .J.M			\checkmark		

Dr. PADMA KUMAR H Associate Professor Department of Physics Mahatma Gandhi College Thiniyananthapuram-695004

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HEAD DEPARTMENT OF MYSICS

MAHAI BUGBAURI COLLEGE THRUVANANI HAPURAN

Loover PRINCIPAL Mahatma Gandhi College Thiruvananthapuram

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Dr. PADMA KUMAR H Associate Professor Demandent of Physics M. Hannel, Judhi College T. Statument and Society

Report

The course was conducted for 120 students. Discussions were conducted on daily activities based on Newton's laws of motion and gravity. The importance on laws of thermodynamics and its applications along with simple problems were also attended in the course. The formation of Universe, the big bang theory was discussed. The famous experiments like Newton's discovery of spectrum - Joule's demonstration of conservation of energy, Young's double-slit experiment, Michelson-Morley experiment , Thomson's experiment, Millikan's oil drop experiment, Stern-Gerlach experiment were discussed. The discussion was also carried on eminent people like Archimedes, Isaac Newton, Michael Faraday, James Clark Maxwell -Max Planck, Ernest Rutherford, Neil's Bohr, Albert Einstein, S. Chandrasekhar, S N Bose - C V Raman etc. Students were exposed to the world of science specifically physics with the basic ides in the subject and importance and contribution of physics to our day today life. Students were satisfied with the course.



DERAR THE HI - PHYSICS

PRINCIPAL Mahatma Gandhi College Thiruvananthapuram

Transactional Analysis Department of Psychology 2021 – 22

THIRUVANANTHAPURAM



OF PSYCHOLOGY

Add on course on Transactional Analysis

REGISTER DOW: course coordidator: dr.prathibha 5 Nair ph:9446323061 Classes handled by Dr.Prathibha S Nair(MC College) Sri Matius Vengal(Sanjeevani Befrienders)

Po

TRANSACTIONAL ANALYSIS - PEOPLE MANAGEMENT SKILLS WITH

TA Total Hours: 30

Course Outcomes:

CSO1: Students will become familiar with basics of Transactional Analysis

CSO2: Students can identify People Management Skills in schools and workplaces

Module I 10 Hours

Identifying areas of People management in Schools, work

places 360° interpersonal relationship in schools, workplaces

Non Verbal Communication - Body Movement or

Kinesics, Physical characteristics, Vocal quality, Proxemics, Artifacts and Environment . Listening and Responding – Active Listening,

Giving Feedback, Paraphrasing

Module 2 10 Hours

TA introduction, Ego states, Structure model, Contamination and Exclusion, Diagnosis of ego states, Ego grams

Motivation — Structure, Stimulus and Recognition Hunger . Emotional intelligence



Module 3. 10 Hours

Transaction - definition, types, rules

Strokes - Definition, types, stroke economy

Life Position - Definition ,Ok ness , 4 position , Social

Time Structuring and effective life

Reference

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Principal Mahatma Gandhi College Thiruvananthapuram

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ADD ON COURSE DEPARTMENT OF PSYCHOLOGY TRANSACTIONAL ANALSYSIS 2021-2022

MAX MARKS:20

ANSWER THE FOLLOWING

1. Non verbal communication is

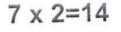
- 2. Active listening is
- 3. Proxemics is
- 4. Paraphrasing is
- 5. Ego grams are
- 6. Strokes is

1 x 6=6

- 6. What are the various ego states?
- 7. What is the ego structure model?
- 8. What is motivation and its structure?
- 9. What is hunger? Explain stimulus and recognition
- 10. What is emotional intelligence?
- 11. What is contamination and exclusion?

12. Explain body movember or kinesics in non verbal communication

Principal





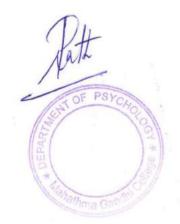
	Department of Psychology Add on Course Transactional Analysis 2021- 2022						
SI. No.	Name of the Student	Total mark	Mark obtained				
1.	Aiswarya S S	20	18				
2.	Anakha S	20	19				
3.	Aparna K N	20	18				
4.	Arsha A S	20	17				
5.	Adharsh A S	20	16				
6.	Sandeep Chandran	20	20				
7.	Soorya B Raj	20	20				
8.	Bhagya R Nair	20	18				
9.	Dileep T S	20	20				
10.	Megha J S	20	15				
11.	Lekshmi B	20	18				
12.	Deepika R S	20	17				
13.	Sankeerthana S	20	16				
14.	Gopika Anil Kumar	20	18				
15.	Vaishaki D V	20	19				
16.	Saraswathi Devi K	20	19				
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18.	Syam Kumar S S	20	18				
19.	Gopika J R	20	19				
20.	Akhil A L	20	19				
21.	Krishna Chandran	20	16				
22.	Nandana V	20	18				
23.	Swathi J Das	20	17				
24.	Rahul R	20	19				
25.	Abhirami Raj A G	20	20				
26.	R Devapriya	20	17				
27.	Aneeta Grace	20	17				
28.	Anagha Ashok	20	18				
29.	Vyshna G	20	17				
30.	Anjali Mohan M	20	19				
31.	Divya M	20	19				
32.	Sooraj Singh	20	17				
33.	Gayathri	20	18				
34.	Krishna Dev	20	19				
35.	Doel Douglas	20	18				
36.	Dipin D S	_ 20	19				
37.	Krishna Prasad	20	17				
38.	Karthik V Nair	20	18				

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Principal Mahatma Gandhi College Thiruvananthapuram REPORT OF ADD ON COURSE ON TRANSACTIONAL ANALYSIS. (2021-22)

THE SPECIFIC TITLE OF THE COURSE WAS 'PEOPLE ENHANCEMENT SKILLS WITH TA'. THE COURSE COMPRISED OF 30 HOURS. 38 STUDENTS HAD ENROLLED FOR THE COURSE. THIS COURSE WAS CONDUCTED IN ASSOCIATION WITH SANJEEVANI BEFRIENDERS WITH WHOM MOU IS SIGNED. TA TRIVANDRUM CHAPTER RUNS IN SANJEEVANI BEFRIENDERS. THE COURSE WAS TAKEN BY SRI MATIUS VENGAL OF SANJEEVANI AND DR PRATHIBHA S NAIR, HEAD OF THE DEPARTMENT OF PSYCHOLOGY WHO IS A BTA HOLDER

Mahatma Gandhi College Thiruvananthapuram



Anjale IN DC 30. Anjali. Mohan. M III DC 32. Dinga M 33 Surag Sengh Anis II DC 34 GAYATHRY VINAY NARAYAN TEDC Ansh TT pc 35 Kaisboa Der S.A. TIDO 35 DOEL DOUGLAS NIDC 3\$. Dipm. D.S. 38. Keishna Prasad Krishen TI DC. Karthik III DC 28 · KARTHIK V.NAIR 1 VCI III Mahatma Gandhi College Principal PRATHIBHA SNAGR Thiruvananthapuram COURSE LO-ORDINATOR. M. AND DOION MALANN 101 11 1-0- T St. Prince D. S. almal Aret 18 50

Yoga and Stress Management Department of Psychology 2021 – 22

MAHATMA GANDHI COLLEGE THIRUVANANTHAPURAM

Department of Psychology

ADD on course on

Yoga and Stress Management 2021-22

Register now :

Course Coordinatior : Dr.Prathibha S Nair Phone : 9446323061

ADD-ON COURSE – YOGA AND STRESS MANAGEMENT

Duration: 30 hours

Instructor: Dr. Prathibha S Nair

Department of Psychology

Mahatma Gandhi College, Thiruvananthapuram

Course Outcomes

CSO1. To familiarize with the concept of yoga. CSO2. Effectively use Yoga Asanas for stress management.

Module-wise topics:

Module 1: Introduction

Duration:10 hours

 Relevance of Yoga in Modern Life- Misconceptions about Yoga – Secular Nature of Yoga

Module 2: Stress

Duration:10 hours

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- Definition of stress
- Causes of Stress Symptoms of Stress Physical-Psychological-Behavioral
- Coping with Stress relaxation- life style management.

+ DEP

Module 3: (Theory and Practicals)

Duration:10 hours

- Basic Relaxation Techniques
- Simple meditation Techniques
- Basic Pranayama Techniques
- Yoga Nidra
- Basic Asanas (Postures).

References

Iyengar, B.K.S (2011) Light on yoga. Harper Collins Publishers, New Delhi Tamini, I.K (2011) Commentary - Harper Collins Publishers, New Delhi Swami Vivekananda, (2004). Raja Yoga revised. Cosmo Publication, New Delhi.

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ADD ON COURSE <u>DEPARTMENT OF PSYCHOLOGY</u> <u>YOGA AND STRESS MANAGEMENT</u> 2021-2022

MAX MARKS:20

ANSWER THE FOLLOWING

- 1.Relevance of yoga in modern life
- 2. Basic relaxation techniques
- 3. Simple meditation techniques
- 4. What is yoga nidra?
- 5. What are the basic asanas?

3 x 5=15

6. What is stress? Mention its types and causes. Also mention its symptoms

5 x 1=5

Principal Mahatma Gandhi College Thiruvananthapuram



		Add on Course and Stress Manage 2021-2022	
SI	Name of the Student	Total	Mark obtained
1	Arsha BS	20	18
2	Bhagya R Nair	20	19
3	Deepika R S	20	18
4	Gopika Anil Kumar	20	17
5	Aiswarya S S	20	16
6	Apsara KN	20	20
7	Vaishaki DV	20	20
8	Kavya S	20	18
9	Anagha N	20	20
10	Lekshmi B	20	15
11	Dileep T S	20	18
12	Megha J S	20	17
13	Sankeerthana S	20	16
14	Abhirami Raj A G	20	18
15	Swathi J Das	20	19
16	Adharsh A S	20	19
17	Akhil A L	20	17
18	Gopika J R	20	18
19	Anjali Mohan M	20	19
20	Sandeep Chandran B M	20	19
21	Dipin D S	20	16
22	Gayathri	20	18
23	Saraswathi Devi K	20	17
24	Sooraj Singh	20	19
25	Syam kumar SS	20	20
26	Aneeta Grace	20	17
27	Krishna Dev	20	17
28	Doel Douglas	20	18
29	Nandana V	20	17
30	Krishna Chandran	20	19
31	Divya M	20	19
32	Krishnaprasad	20	17
33	Rahul R	20	18
34	R Devapriya	20	19
35	Karthik V Nair	20	18
36	Anakha S	20	19
37	Vaishna G	20	17 10GY 4
38	Anagha Ashok	20	18

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		Add on Course and Stress Manage 2021-2022	
SI	Name of the Student	Total	Mark obtained
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3	Deepika R S	20	18
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5	Aiswarya S S	20	16
6	Apsara KN	20	20
7	Vaishaki DV	20	20
8	Kavya S	20	18
9	Anagha N	20	20
10	Lekshmi B	20	15
11	Dileep T S	20	18
12	Megha J S	20	17
13	Sankeerthana S	20	16
14	Abhirami Raj A G	20	18
15	Swathi J Das	20	19
16	Adharsh A S	20	19
17	Akhil A L	20	17
18	Gopika J R	20	18
19	Anjali Mohan M	20	19
20	Sandeep Chandran B M	20	19
21	Dipin D S	20	16
22	Gayathri	20	18
23	Saraswathi Devi K	20	17
24	Sooraj Singh	20	19
25	Syam kumar SS	20	20
26	Aneeta Grace	20	17
27	Krishna Dev	20	17
28	Doel Douglas	20	18
29	Nandana V	20	17
30	Krishna Chandran	20	19
31	Divya M	20	19
32	Krishnaprasad	20	17
33	Rahul R	20	18
34	R Devapriya	20	19
35	Karthik V Nair	20	18
36	Anakha S	20	19
37	Vaishna G	20	17
38	Anagha Ashok	20	18

P. J. D

39	Lekshmi B	20	19
40.	Abin P.B	20	18
41.	Raisa Sumayya R	20	17
42.	Aiswarya Aavi	20	19
43.	Ajmiya A S	20	18
44.	Aswathy .P	20	17
45.	Gouri R	20	17
46.	Jana M J	20	20
47.	Muhammed Ashik	20	20
48.	Nandana Nair C S	20	20
49.	Thomas Biju	20	19 .
50.	Aksa T Rajan	20	18
51.	Alveena Mary Biju	20	18
52.	Amna Thajudheen	20	17
53.	Ananthakrishnan A T	20	19
54.	Anjali S. L	20	18
55.	Aparna Vijay	20	19
56.	Ardra S Kumar	20	18
57.	Aswani Deva A. L	20	18
58.	Jincy P Roy	20	17
59.	Lekshmi Sanal	20	19
60.	Megha G Nair	20	19
61.	Pranav B G	20	20
62.	Rahi R Nair	20	18
63.	Rejo R	20	19
64.	Sivani J R	20	18
65.	Stephy. Justine	20	19

Principal Mahatma Gandhi College Thiruvananthapuram



REPORT OF ADD ON COURSE ON YOGA AND STRESS MANAGEMENT (2021-22)

THIS ADD-ON COURSE WAS INTRODUCED TO STUDENTS TO BENEFIT THE TEACHINGS OF YOGA IN STRESS MANAGEMENT. 65 STUDENTS ENROLLED FOR THE COURSE AND COMPLETED THE COURSE. THE COURSE COMPRISED OF 30 HOURS. THE STUDENTS WERE TAUGHT BOTH THE THEORY AND PRACTICALS. THE COORDINATOR OF THE COURSE WAS DR PRATHIBHA S NAIR, HEAD OF THE DEPARTMENT OF PSYCHOLOGY.

Principal Mahatma Gandhi College Thiruvananthapuram

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	2. Bhaqya · R. Nair	TDC	Bhagua	36. Arakba.s	12 19
	3. Deepika . R. S	TT DC	Leepika.	37. Vystma. G	Ĩ
	4. Gopila Anilkamas	TIDC	Conto	88. Anakha Ashok	n
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h	13. Sankeerthana . S	TIDC	Santreekthe	48 Nandana Naie. C.S	Ist
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	23. Sasasmathi Deni.k	II oc	Sarasurathiteus	58 Jiney P. Joy.	Ist
	2 Suaj Sengh	TTDC	Amapungh	59 Lekshmi Sanal	25
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