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.

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

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.

HEAD P.G. Dept. of Chemistry & Research Centre Mahatma Gandhi College Thiruvananthapurace

Principal Mahatma Gandhi College Thiruvananthapuram

| 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 | | |

P.G. Dept. of Chemistry & Rescarch Cenue P.G. Dept. of Chemistry and the College Mahatma Gandhi College Thiruvananthapuram

| 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 | | |

- John States - The Lorenza - State

HEAD HEAD Research Centre Mahatma Gandhi College Thiruvananthatur of

Principal Máhatma Gandhi College Miruvananthapuram

wither.

| | 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 | | | |

HEAD & Research Centife HEAD & Research Centife College A St. Dept. of Chemistry & nonthic College Nahatma Ganothic Apurant Nahatma Santhapurant

| 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 |

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

Principal College Principal College Mahama Congentinguran

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

Principal Mahatma Gandhi College Thiruvananthapuram

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

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 .



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

Mahatma Gandhi Collese anamie Canoni Conce Thiruyananthapuran

1021.

Time 3.30-4.30 pm

Cosmetic Chemistry SI 11 Batch.I. (2021-22)

| Broken - Th | | |
|--|------------------------------------|----|
| 2. 34 pt 6.5. 235083 | 1. Gautham Mohan Y.M 2352011802) | 10 |
| 3 Wind High Str. 2350 83 | 2. Salmiya. S. 23520118032 | 10 |
| Wahning Provider of Sasing | 3 Anakha S.R 23520118008 | 10 |
| 5 Villing pring 15 2351183 | 4. Bhagya Soman U.S. 23520118051 | 10 |
| Lakhelmen Basing Jassing | 5. Adithya Vinod. 2352011037 | 7 |
| 17. Archanders 2. 25 1 93 | 6. Megha M.S. 23520118046 | 7 |
| 58 Charthervis 2 10 239 1/3 | 7. Chaithanyan R 23520118048 | 6 |
| 19 Broghar P.S. 285 MAR | 8. Sreelekshmi Sunil. 23520118055 | 8 |
| 10 Angetholica and Prig | 9. Grokul GI.R 28520118652 | |
| ERIE Rooms PS The Bar | 10 Lakshmi.B. 23520118045 | 9 |
| 12. Brothy RL 28 12/ 851180 | 11. Aneesh. S. 23520118041 | 10 |
| 43 Mayor B.S. L. S. C. 135711 8 | 12. Sonjith Suresh. 23520118033 | 10 |
| HH Bhadaanas 28117 23518. | 13. Paiyadersini P.S. 235201180H7 | 10 |
| 15 Employeer Press | 14 Anjali. P.S. 23520:18010 | 10 |
| P. F. Mahamara 2. 6.2351183 | 15 Adithya K.H 23520118004 | 9 |
| 46 Gangiadina 1 13351153 | 16 Athira B.S 23520118016 | 8 |
| 17. Ballathin E. 1. 12351183 | 17 Vychmany A.R. 23520118049 | 10 |
| 18. Manard J. Ju 22542 | 18 Silpa B.S. 23520118054 | 9 |
| 19 Redunder Upper 224548 | | 10 |
| 60 250 0 Far 1 2 2 251 0 | 20 Aswathy S.R 23520118015 | 10 |
| 1. 19 and 1. 20 population . 1 | 21 Aiswarya M.S. 23520118005 | 6 |
| 2 1130 harroldon a hasser 12 | & Aparna . S. Nair 23520118012 | 9 |
| 13 - 10 avallant in 10 25 5 19 | 23. Parually Nair A.V. 23520118029 | 8 |
| a frazennean paomila Arr 15 | 24 Jayanth J.S. 23520118025 | 10 |
| an arean even had id the ris | 25. Farsana sunil. 23520118020 | 10 |
| A STORE III | 26. Asya A.S. 23520118014 | 10 |
| CASH 10 / 10 | 27. Abhaya Vinesh. 23520118001 | 9 |
| Horsesh & Histilian a Jaid Br. | 28 Aiswarya B 23520 118006 | 8 |
| Millional Manager S | 29. Any en 23520118050 | 7 |
| Withman Dispat | 30 Crouri M.S 23520118043 | 7 |
| A same and | 31. Devilea A.J 23520118019 | 8 |
| 1 a day of the second s | 32. Crayathr, A.S 23520118058 | 8 |
| | | |

| Larmedie Aremielig | 13. |
|--|--------------------------------------|
| Batel. I Mo | |
| | Batch-II (2021-22) |
| | |
| 2352048034 10 | · 1. Abhimanyu H. 235211180017 |
| un 23520118003 9 | 2. Abinav V.R 2352111800210 |
| an 235201180#7 8 | 3. Abhiramy B.R 2352111800310 |
| 23520118017 7 | H. Drande A.B 23521118004 8 |
| brohn 23520118018 6 | 5. Ananthu unnithan 23521118005 8 |
| Le 23520118002 6 | 6. Anaswara P.S 235211180067 |
| 2 23520118015 9 | 7. Anyalikrishna K.M. 2352118007 9 |
| 28 23520118022 8 | 8. Anythe Ram 23521118008 10 |
| - 23520118623 9 | 9. Anathy S. 23521118009 10 |
| 28 23520118024 9 | 10 - Aswathy V.R 2352118010 10 |
| 23520118027 9 | 11. Bhaqya likshmi R. 23521118011 10 |
| 5 23520118030 8 | 12. Devendu S.N 25211801210 |
| od 235201180317 | 13. Ganga R. 23521118013 9 |
| 1.1e 23520118035- 8 | 14. Meenter P.S. 23521118014 9 |
| 13 23520118636 9 | US. Mithun G.M 2352118015 8 |
| 1 23520118638 10 | 16. Neha S.N 23521180167 |
| A. 23520118039 10 | 17. Praveen G. 23521180177 |
| ×14h 23520118040 9 | 18. Renjeth R.S 23521180187 |
| S.R 23520118042 8 | 19 Sivananda M. 2352118019 8 |
| · S· 235201180427 | 20. Siva renjana R.S 23521180209 |
| K.C 23520118553 6 | 21. Siya S. Nart 23521180218 |
| N 23520118056 6 | 22. sooray.S.S 23521180229 |
| A.L 23526118057.9 - | 23. Sravya S.S 2352118023 10 |
| - Ste | 24: Soeelikshmi BJ 235211802410 |
| HEAD - Control | 25. Sreelal L.S 2352118026 9 |
| Chomistry & Research Centre | 26. Abhilash J 2352118025 10 |
| 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 |
| Gandhi College 2 Marco C- | 30. Akhila B. 23521180207 |
| vananthapuram | 31. Amr. tha Rani P.K 235211803\$6 |
| 286 2.9 Jack p. C. B35 | 32. Ananthalerishnan A. 2352118032 8 |
| | 32. 1. 1 |

.

| | 14 13 | | |
|----------|---|-----------------|-------|
| | 14 | | |
| 1 | 1-E (2021-22 | e te | |
| | | (| |
| 34. | Aswathy S. Nour | 2352118034 | 10 |
| | B.S Adicles | 2252118035 | |
| | Devilca . B.V. | 2352118036 | |
| 37. | Deupriya R | 23521118037 | |
| 38- | nowrinanda k.A | 23521118038 | |
| 39. | kavya J | | |
| | krishnendu S. | 23521118039 | |
| 41. | | 23521118040 | |
| 110 | Megha Manoy R. | 23521118041 | |
| | | 23521180kg2 | / |
| | aandlana S.R. | 2552118043 | |
| der- | Pranav R.B. | 2352188044 | |
| | Rohil- S-S | 252118045 | |
| | Sabarinath S.P | 2352118046 | |
| 43. | Socerag S. | 2352116047 | 7 |
| Hos. | Dditha krishin A | 2552118048 | -6 |
| 29. | Anoop S- | 2352118049 | 7 |
| 56 | Aswathy Krishn | 2352118050 | 8 |
| 51. | Athira R.S | 2352118051 | 9 |
| 52. | Q.A Cropikrishnan | 2352118052 | -10 |
| 53. | Jagannath S. | 2352118053 | 10 |
| SH. | Vyshnaviv.s | 235218054 | 10_ |
| 55 - | Colard Lemas D.G. | 2352118055 | |
| CS la | R | 2200000 | 120 |
| 01.00 | HEAD | Level David - | |
| | P.G. Dept. of Chemistry & F Mahatma Gandhi | Research Gentre | 1 |
| 01.13 | Thiruvanantha | puram | |
| | 11- | n phillipping | |
| | a | Manund B | 10-4 |
| | Principal Colles | pall aida | 20- |
| | Mahatma Gandhi Colley Mahatma Gandhi Colley Mahatma Gandhi Colley | aduttya | 000-0 |
| 300 | he Thun | BILLIA B | 05-0 |
| - d de 1 | Cari P. R. S. Strang | Amerita | ő |
| ·8 (m) | Read Blanch 201 | Latterna a | 5 - |
| | | | |

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.

Principal

Mahatma Gandhi College Thiruvananthapuram

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.

Principal Mahatma Gandhi College Thiruvananthapuram

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.

:

Principal Mahatma Gandhi College Thiruvananthapuram

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.

Principal Mahatma Gandhi College Thiruvananthapuram

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

Principal Mahatma Gandhi College Thiruvananthapuram

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 |
| 34 | GOURI L AJI | II UG | 26 | and the |
| 35 | SARANYA V S | II UG | 05 | · Kanand ; |
| 36 | SHILPA ANIL | II UG | 23 | Bhelpatrif |
| 37 | AADHYA K V | IUG | 24 | derthye |
| 38 | AISWARYA M S | I UG | 26 | Inou |
| 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

0

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

3

4

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 |
| 20 | 15020118035 | ARAVIND A S |
| 28 | 15020118035 | ARDRA B S |
| 29 | 15020118038 | ASHTAMI A.S |
| 30 | | |
| 50 | 15020118038 15020118039 | ATHIRA .S BHAGYA S |

SRUTHI S Assistant Professor

100

Department of Economics Mahatma Gandhi College, TVPM

| 32 | 15020118040 | BHAVYA J.S |
|----|-------------|-------------------|
| 33 | 15020118041 | BIMAL S S |
| 34 | 15020118042 | DEVIKA R.H |
| 35 | 15020118043 | GANGA P K |
| 36 | 15020118044 | GAUTHAM. B. CHAND |
| 37 | 15020118045 | GAYATHRI S A |
| 38 | 15020118046 | GOKULA |
| 39 | 15020118047 | GOWRI M R |
| 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 |
| 47 | 15020118059 | SANDRA A S |
| 48 | 15020118062 | SHINI M.S |
| 49 | 15020118065 | SREELEKSHMI V S |
| 50 | 15020118069 | ARUNKRISHNAN U V |
| 51 | 15020118070 | GOURI G P |
| 52 | 15020118073 | THIRTHA K |
| 53 | 15020118075 | GOWTHAMLAL |

\$15 SRUTHI S

Assistant Professor Department of Economics Mahatma Gandhi College, TVPM

PRIVALG

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

| | 2021-22 | | 1 | | 1 + | | - |
|-------|------------------------|---|---------|---|-----------|-------|-----------|
| | | | | 157 | 1. 3 | | |
| | | | | | | | |
| Cer | rtificate course on A | dvanced Microeconomic | Theory | & its : | applicat | Hone | |
| | | SRUTHI S | T | or its a | applica | lions | - |
| | Start Date: | 1st June 2021 | | | | | - |
| - | End Date: | 5th July 2021 | - | | | | - |
| | Hours: | 30 hours | | | | | - |
| | No of Days | 10 days | | | | | _ |
| | Total no of reg studer | nts: 53 | | | | | - |
| | Time: | 4 pm to 7 pm | | | | | - |
| | Mode | Online via G-Meet | 1 | i | | | 4 |
| | | | | [| Leavely 1 | - | - |
| | | | Cla | and the second se | narks-: | | - |
| sl no | Register number | Name | Perform | | Term | Total | 1 |
| 1 | 15020118001 | ABHIJAYA V NAIR | 1.120 | | Paper | Grade | Du |
| 2 | 15020118002 | ABHIJITH M.S | A C | | 19 | A+ | Sent |
| 3 | 15020118003 | ΑDΗΙΤΗΥΑ Κ Α | В | | 18 | A | Albin |
| 4 | 15020118004 | AKASH R M | C | | 18 | A | Attilling |
| 5 | 15020118006 | AMITHA . A . J | | | 17 | Ba | A des |
| 6 | 15020118008 | ANJANA V | В | | 17 | Β. | Arotha A |
| 7 | 15020118010 | ANUJA.A.J | C | | 17 | C - | Ageto |
| 8 | 15020118011 | ARATHY CHANDRAN V B | В | | 18 | A | May |
| 9 | 15020118013 | DEVIKA Y S | С | | 81 | A | Ast |
| 10 | 15020118014 | LEKSHMI S | A | | 18.5 | Ato | 1 sept |
| 11 | 15020118015 | MEKHA S | В | | 18 | A | ferm |
| 12 | 15020118016 | NANDANA A S | В | | 19 | A+ | MAR |
| 13 | 15020118017 | NIVA A S | Α | | 18 | A | Mule |
| 4 | 15020118018 | RADHIKA R.S | В | | 17 | В | NO |
| .5 | 15020118022 | VISHNU. M | C | | 17 | B | Rilh |
| .6 | 15020118023 | ABHIJAY R | C | | 17 | C | Tishme |
| 7 | 15020118024 | ABHINAND S A | C | | 17 | C | Abhing |
| 8 | 15020118025 | ABHINAV KRISHNA D P | C | | 17 | CO | AlanD |
| 9 | 15020118026 | ADHITHYA SANKAR A A | Α | | 19 | At | BR |
| 0 | 15020118027 | AISWARYA V S | A | | 18 | A | Adh |
| 1 | 15020118028 | AJESH A I | A | | 18 | AD | Admany |
| 2 | 15020118029 | AKASH B MANOHAR | Α | | 18 | A | non. |
| 3 | 15020118030 | AKHIL S | A | | 18 | A | Park |
| 4 | 15020118031 | AMITHRAJITH.S.S | В | | 17 | BA | 0 |
| 5 | 15020118032 | ANANDU. A.S | В | | 17 | B | 00 |
| 5 | 15020118033 | the second se | C | | 17 | CU | Onte |
| , | 15020118035 | ARATHIBS | В | | 17 | BA | Many |
| | 15020118035 | ARAVIND A S | В | | | A | 2 mol |
| | 15020118036 | ARDRA B S | А | | 18 | A | shows |
| | 15020118037 | ASHTAMI A.S | В | | | A | Han' |
| - | 15020118038 | ATHIRA .S BHAGYA S | В | | 18 | 4 | aprice |

N.V.

| 32 | 15030110040 | | | | | |
|----|-------------|-------------------|---|----|---------|----------|
| 33 | 15020118040 | BHAVYA J.S | С | 17 | C. | Rhown |
| | 15020118041 | BIMAL S S | С | 17 | C | an |
| 34 | 15020118042 | DEVIKA R.H | С | | | and a |
| 35 | 15020118043 | GANGA P K | A | 17 | C. | Devika |
| 36 | 15020118044 | GAUTHAM. B. CHAND | В | 19 | At | the the |
| 37 | 15020118045 | GAYATHRI S A | B | 18 | A | - Any |
| 38 | 15020118046 | GOKUL A | A | 18 | A | to for |
| 39 | 15020118047 | GOWRI M R | | 18 | A | CALC . |
| 40 | 15020118048 | KARTHIKA P. NAIR | A | 18 | A | ber |
| 41 | 15020118049 | LAKSHMI SURESH | A | 19 | A+ | D. |
| 42 | 15020118050 | MALAVIKA. A.S | C | 19 | A+ | 210 |
| 43 | 15020118051 | MEGHA.S.KRISHNAN | В | 17 | B | han |
| 44 | 15020118052 | NIKHIL P SYAM | В | 18 | A | Mogha |
| 45 | 15020118053 | PRANAY PRASANTH | A | 18 | A | Duli |
| 46 | 15020118055 | RESHMA R.G | С | 17 | C | No |
| 47 | 15020118059 | | В | 18 | B | Rest |
| 48 | 15020118062 | SANDRA A S | В | 18 | A | Sandna |
| 49 | | SHINI M.S | C | 17 | CO | PLANE II |
| 50 | 15020118065 | SREELEKSHMI V S | A | 19 | At | 1 thanks |
| | 15020118069 | ARUNKRISHNAN U V | В | 18 | B | 1 l |
| 51 | 15020118070 | GOURI G P | В | 18 | B | OF T |
| 52 | 15020118073 | THIRTHA K | A | 18 | | HAN Like |
| 53 | 15020118075 | GOWTHAMLAL | A | 18 | At B | Le L |

Brades !- A+ - 95 Jahove A - 90 + 95 B - 85 6 90 C - 80 to 85

th

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

PRINCIPAL Mahatma Gandhi College Thiruvananthapuram

DD

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

trepaud

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

| 2 | 021- | -22 | | 1 | |
|---|-------------------|-------------------|------|------|---------------------------|
| Data analysis | using | GRETL | | - | |
| | RUIII | | | -1 | |
| aculty: | TAL II | uly 2021 | | - | |
| start Date: | 28th 5 | September 2021 | | - | |
| nd Date: | 32 hou | | | -1 | |
| Hours: | 27 da | | | -1 | |
| No of Days | | 1. | | - | |
| Total no of reg students: | 30 | | | - | |
| | | | | - 1- | 0 |
| MARK-SHEET | 1- | Name | Mar | ks | L. |
| Register number | 1.011 | ARYA A S | 18 | | in , |
| 55020118001 | the second second | | 18 | | and and |
| 55020118002 | ALFI | S NIMA. P | 1- | | idles |
| 55020118003 | ARU | ATHRI S | - | og | 200 |
| 55020118004 | GAY | JRI V NAIR | | 20 7 | Part |
| 55020118005 | GOU | SHNA. K. P | - | T | and the second |
| 55020118006 | KRIS | NA GEORGE | | 18 K | 2 Jex D |
| 55020118007 | LEE | RVATHY A S | 1 | 16 | 1.10 |
| 55020118008 | PAI | MALAVIKA | - | 16 | Are |
| 55020118010 | R.S | SHMA MOHAN | - | 20 | Contraction of the second |
| 55020118011 | RE | VATHY U S | _ | 20 | a mis |
| 55020118012 | RE | NIGDHA S | - | 17 | |
| 55020118014 | SI | JRYA PRAKASH | - | 19 | alar. |
| 55020118015 | | ICNESH M S | - | 18 | TADONE |
| 55020118016 | | ISHNU VARDHAN M S | | 18 5 | a buya |
| 55020118017 | | ADITHYA S PILLAI | | 17 | Liscoute |
| 55021118002 | | AISWARYA J R | - | 17 | . Ar |
| 55021118003 | ť | AKHILA G K | | 17 | Amp |
| 55021118004 | | ANJANA M | | 17 | A. |
| 55021118005 | | ARJUN J B | | 16 | Gut |
| 55021118000 | | DI DI UNIVA S | | 18 | BA |
| 55021118007 | | KRISHNA MURALEEDH | ARAN | 17 | V.D |
| 55021110000 | | KRISHNA PRIYA V V | | 17 | Ad |
| 55021110005 | | LAVANYA.S. A | | | Find |
| 55021118010 | 1 | LIUMOL.L. A | | 19 | 1 |
| 5502111801 | 2 | M M SREELAKSHMI | | 17 | Degra |
| 5502111801 | 2 | S MEGHA NAIR | - | 20 | Dot |
| 5502111801 | .5 | SOUFIYA BADAR | | 17 | - and |
| 5502111801 | 5 | C IN IN A A B | - | 20 | |
| 550211180 | 17 | WARSHA B M | 1.52 | 1 | - W |
| 29 550211180 30 550211180 | 17 | TILAI | | | |
| | | | | | |

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 |
| 8 | 23021118015 | GOURI R. | Germ |
| 9 | 23021118016 | JISHA L. | Jiste |
| 10 | 23021118018 | MEENAKSHI A.M. | Neeneler |
| 11 | 23021118019 | PARTHAN A.S. | Belly |
| 12 | 23021118020 | PARVATHY PRATHAP | panch |
| 13 | 23021118022 | SAJIN R. | Grater |
| 14 | 23021118024 | SNEHA A. | with |
| 15 | 11521118004 | ABHISHEK J.S. | Appropriete |
| 16 | 11521118007 | AJIL KRISHNAN G. | torneto |
| 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 |
| 59 | 13021118001 | ABHISHA U.R | - Harten - 10 |
| 60 | 13021118039 | SWATHY P.S | Self |
| 61 | 13021118010 | MEGHA VINAYAN | Megher |

| 62 | 13021118006 | GAYATHRI CHANDRAN J.S | (partir |
|----------------------|-------------|-----------------------|--------------------------------------|
| 63 | 13021118004 | ARYA NAIR | Jost Reyther |
| 64 | 13021118012 | NANDANA A.R | Net |
| 65 | 13021118013 | NANDANA BABU H. | and - |
| 66 | 13021118028 | SAFALYA S. | Solta |
| 67 | 13021118037 | SIDDHI SANTHOSH | And . |
| 68 | 13021118031 | SYAMA S.S | alunger |
| | | | the co |
| 69 | 1562111002 | ABHIRAM K.R | the |
| 70 | 1562111046 | ABHISHEK J. SANTHOSH | Aller |
| | | | |
| | | | <u></u> |
| 10000000000 | | N. | |
| | | A | |
| | | : Prin | cipal dhi College |
| | | Mahatma G | cipal andhi College anthapuram |
| | | Thiruvan | air |
| | | | |
| | | | |
| | - | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| an albuman an araa a | | | |
| | | | |
| la - e a Ricci and | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

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 |

. . . E | * · · ·

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 |
| 50 | 25021118019 | NANDANA S.A | 22 |
| 51 | 25021118022 | NAVAMI N.S. | 21 |
| 52 | 13021118009 | KRISHNA SAURABH S.G. | 23 |
| 53 | 13021118019 | ALBIN SANTHOSH | 23 |
| 54 | 13021118003 | ANAMIKA D.P | 22 |
| 55 | 13021118005 | DEVU A.S | 23 |
| 56 | 13021118014 | NEHA V.S | 22 |
| 57 | 13021118033 | JOSHNA JOHNSON | 23 |
| 58 | 13021118021 | ANANTHARAMAN D.P | 23 |
| 59 | 13021118001 | ABHISHA U.R | 22 |
| 60 | 13021118039 | SWATHY P.S | 21 |
| 61 | 13021118010 | MEGHA VINAYAN | 21 |
| 62 | 13021118006 | GAYATHRI CHANDRAN J.S | 23 |
| 63 | 13021118004 | ARYA NAIR | 23 |
| 64 | 13021118012 | NANDANA A.R | 23 |
| 65 | 13021118013 | NANDANA BABU H. | |
| 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

÷

| 69 | 1562111002 | ABHIRAM K.R | 22 |
|----------------------|------------|---|--|
| 70 | 1562111046 | ABHISHEK J. SANTHOSH | 21 |
| | | | |
| | | | |
| | | | |
| | | | providente d'alla de la contra d Internet de la contra |
| - (600 141 - 41 - 41 | | | |
| | | | |
| | | 4 | |
| | 1 | | |
| | | | // |
| | | MF | |
| | | K | |
| | | Princi | pai college |
| STATES | | hatma Ga | hapuram |
| | | Princi Mahatma Gai Thiruvana | DEI. |
| | | the second se | |
| 1 | | | |
| | | | |
| | | | |
| anter a contra | | | |
| | | | |
| l. | - | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

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)

Damkonwer. a 1400, Machumatus

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

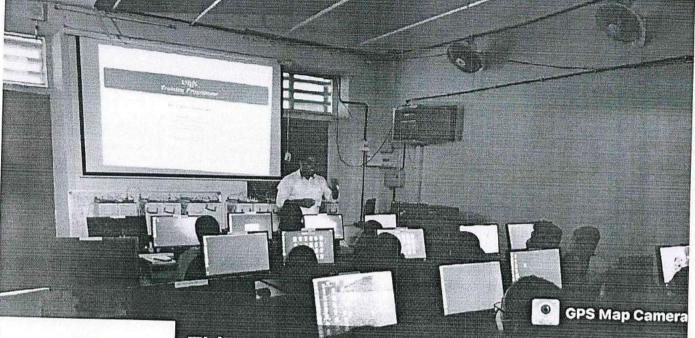
Signature of Course Coordinator S. & Redhebashrow

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

Daw leure a Daw leure anatwatus 6" Hol Madwatus

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.

Run kunt Run kunt For HOD/ Mathimatics

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 |
| 3 | ANASWARA.P | anaswaraponnu2004@gmail.com | 8289848835 |
| 4 | ARATHY R | arathyanir@gmail.com | 7025268701 |
| 5 | ARSHA PRASAD N | arshaprasadn@gmail.com | 8281520332 |
| 6 | ASWANI A.S | aswanivava222@gmail.com | 7558843603 |
| 7 | B AMAL BHASKAR | amalbhaskar9633@gmail.com | 9633621966 |
| 8 | GOWTHAM SANKAR S | gowthamsan2003@gmail.com | 8921077959 |
| 9 | HARIKRISHNAN D | harikrishnand1503@gmail.com | 8848110372 |
| 10 | NANDANA MUKUNDAN | nandana1145@gmail.com | 8593921145 |
| 11 | NANDU G.P | nandugp90489@gmail.com | 9778515692 |
| 12 | NEETHU S | neethus832@gmail.com | 9656984468 |
| 13 | NIDHUN S R | nidhunsr19@gmail.com | 8590801780 |
| 14 | SANUSH .S | sanushx3@gmail.com | 9446981164 |
| 15 | SARAN PRASAD V | saranvenkidesh@gmail.com | 6282218997 |
| 16 | SREELEKSHMI S S | sureshsumi72@gmail.com | 8075492870 |
| 17 | VAISHNAV. I | vaishnavsachu37@gmail.com | 8590337733 |
| 18 | VISHNU V. S | vishnuvichu4200@gmail.com | 9188311206 |
| 19 | ABHIJITH D | vavaabhijith00@gmail.com | 8943912119 |
| 20 | ADARSH RAGHAVAN | adarshraghavan8@gmail.com | 9961076209 |
| 21 | AFRAN S | afranafran102003@gmail.com | 6238961118 |
| 22 | AMAL KRISHNA M | amalkrishnam26@gmail.com | 8848800642 |
| 23 | AMALA UNNI B S | amalaunnibs@gmail.com | 8304931490 |
| 24 | AMALU AJAY | amaluamaloos19@gmail.com | 8086770030 |
| 25 | ANANTHA KRISHNAN | annustrixx@gmail.com | 9895263164 |
| 26 | ANUPAMA R.NAIR | anupamarnair62@gmail.com | 9495731220 |
| 27 | ASWANI A L | aswanivava007@gmail.com | 9778758339 |
| 28 | DEVI NANDANA .P.S | devinandanaps@gmail.com | 8590804931 |
| 29 1 | DHANUSH J | dhanushdinesh1315@gmail.com | 7591957671 |
| 30 0 | GAYATHRY P V | gayathrypv023@gmail.com | 8547734405 |
| 31 (| GOPIKA G | gopikagopuzz529@gmail.com | 9567238923 |
| 32 0 | GOURI | gourimeenu072@gmail.com | 7994026926 |
| 33 H | HARI MURALI | harimurali1221@gmail.com | 7356573047 |
| 34 J | OBITHA MOLJJ | jobithajobz@gmail.com | 9074243259 |
| 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 $(3 \times 5 = 15)$

٠.

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 |

Dam kommentue H.D. Marthantue

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

Go gle



Long 76.943107°

24/08/22 03:18 PM

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..

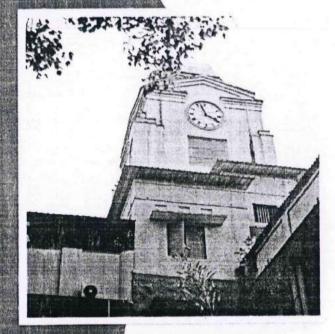


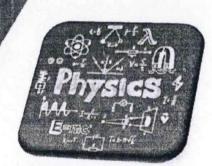
People

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 |
| 43 | 23020118043 | DETHAN R S | 19 | athings |
| 44 | 23020118044 | GAUTHAMY ANIL | 20 | Graphy |
| 45 | 23020118045 | KISHORE MADHAV | 20 | Roffice |
| 46 | 23020118046 | LEKSHMI PRADEEP. S | 18 | Lebson |
| 47 | 23020118047 | NANDA. S. S | 18 1 | 1225 |
| 48 | 23020118048 | PREETHI P.S. | 19 | - Cheath |
| 49 | 23020118049 | SABARIKANTH S S | 20 | Spin |
| 50 | 23020118051 | SNEHA P | 20 | SIR |
| 51 | 23020118052 | SYAMKUMAR. S | 17 | String T.O |
| 52 | 23020118053 | VISHAL. B | 17 | Aspalls |
| 53 | 23020118054 | JAZIM IBRAHIM | 18 | Twing Grahing |
| 54 | 23020118055 | NANDANA. A.S | 20 | ASprandana |
| 55 | 23020118056 | NOUREEN S N | 20 | Busen |
| 56 | 23020118057 | SREENADH.S | 19 | Decethe |
| 57 | 23020118058 | PRAVEENA V GOPAL | 19 | Inen- |
| 58 | 23021118001 | AARDRA N A | 18 | Ant |
| 59 | 23021118002 | ABHAY A.S | 18 | - Children |
| 60 | 23021118003 | ABHINAV H B | 20 | Advision |
| 61 | 23021118004 | ADARSH M.S | 20 | Aclassi |
| 62 | 23021118005 | AKHIL PRADEEP P B | 17 | A theohok |
| 63 | 23021118006 | AMAL KISHORE P | 15 | Amaplas |
| 64 | 23021118007 | AMBADI SURESH S S | 16 | Apolaes |
| 65 | 23021118008 | ANAND S | 15 | Am |
| 66 | 23021118009 | ARCHA M.S | 16 | Amos |
| 67 | 23021118010 | ARYA R L | 18 | A. min |
| 68 | 23021118011 | ASWIN A S | 17 | Esucia |
| 69 | 23021118012 | AVANTHIKA RAJESH | 17 | the sh- |
| 70 | 23021118013 | BHAGATH A .R | 18 | 1 pageaunt. |
| 71 | 23021118014 | GADHA M LEKSHMY | 18 | |
| 72 | 23021118015 | GOURI. R | 19 | Cartes |
| 73 | 23021118016 | JISHA. L | 19 | Julia |
| 74 | 23021118017 | KANCHANAKRISHNAN | 20 | malertu |
| 75 | 23021118018 | MEENAKSHI A M | 20 | - And R. |
| 76 | 23021118019 | PARTHAN.A.S | 18 | attentup. |
| 77 | 23021118020 | PARVATHY PRATHAP | 18 | The take deardear |
| 78 | 23021118021 | REMYA CHANDRAN R | 17 | Rawyo |

| 79 | 23021118022 | SAJIN R | 19 Pagen |
|-----|-------------|------------------|-----------------|
| 80 | 23021118023 | SIDHARTH J | 17 Southarth |
| 81 | 23021118024 | SNEHA A | 19 Jackels |
| 82 | 23021118025 | SREELEKSHMI B | 19 Saceleksbril |
| 83 | 23021118026 | A ASWAL | 17 Care |
| 84 | 23021118027 | ABHINAV.V.S | 17 Applinal |
| 85 | 23021118028 | ABIN .A.S. | 15 Asabin |
| 86 | 23021118029 | ADITHYA RAJU | 14 Alexin |
| 87 | 23021118030 | AKASH S K | 14 Alashar |
| 88 | 23021118031 | AKSHAY JOSHUA | 15 Alerthand |
| 89 | 23021118035 | ARJUN DEV. G | 16 Autopoli |
| 90 | 23021118036 | ASWIN DAS S G | 16 Aswighes |
| 91 | 23021118037 | ASWIN S M | 17 Jumpst |
| 92 | 23021118038 | GAUTHAM S NAIR | 18 200 |
| 93 | 23021118039 | GOKUL B S | 17 Jul BS |
| 94 | 23021118040 | GOPIKA L | 18 Gopton |
| 95 | 23021118041 | KARTHIKA .B.A | 19 Balleto |
| 96 | 23021118042 | KRISHNAJA. M | 19 0996 |
| 97 | 23021118043 | MEGHNA PRAMOD | 20 Technaz |
| 98 | 23021118044 | NIVEDA N V | 20 |
| 99 | 23021118045 | SNEHA S | 20 Snehas |
| 100 | 23021118046 | SRAVAN S P | 19 Sruthis. |
| 101 | 23021118047 | SRUTHI .S | 18 Samuel SP |
| 102 | 23021118048 | VISHNU B A | 19 |
| 103 | 23021118049 | ATHUL VIJAY V S | 18 Ahully |
| 104 | 23021118050 | BEENA.P | 18 Jon |
| 105 | 23021118051 | MEKHA .U | 19 Dalle |
| 106 | 23021118052 | RIJU. B. | 19 6.00 |
| 107 | 23021118053 | SAJITH.S | 17 alth |
| 108 | 23021118054 | VISHNU S | 17 Semu |
| 109 | 23019118038 | ASWANTH V S | 15 Auton |
| 110 | 23019118039 | ASWIN DEV J | 16 AM |
| 111 | 23019118040 | DILNA DAMODARAN | 16 |
| 112 | 23019118041 | GOVIND C | 14 boying |
| 113 | 23019118042 | HARIGOVIND J R | 18 bligon |
| 114 | 23019118043 | HARITHA L H | 18 thill |
| 115 | 23019118044 | JAGAN G PILLAI | 19 Jappfillai |
| 116 | 23019118045 | MARIA SEBASTIAN | 19 Jahrica |
| 117 | 23019118046 | ΝΙΚΗΙΤΗΑ Α Κ | 20 NUMBER |
| 118 | 23019118047 | S BIDHU BHOOSHAN | 20 6450 |
| 119 | 23019118048 | UDAYALAL R | 18 Mary |
| 120 | 23019118049 | VAISHNAVI PRASAD | 14 Varnaly |
| | 101 | | |

PRINCIPAL Mahatma Gandhi College Thiruvananthapurare

١.,

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 | | |
| 4 | 23020118004 | AJAY S | 1 | | | | |
| 5 | 23020118005 | AKSHAYA. A. S | | | | 1 | |
| 6 | 23020118006 | AMAL. A. NAIR | 1 | | | | |
| 7 | 23020118007 | ANJAI VINOD | 1 | | | | |
| 8 | 23020118008 | ANJANA JOSE. J | | 1 | | | |
| 9 | 23020118009 | ANOOP S | 1 | | | | |
| 10 | 23020118010 | APARNA J S | | 1 | | | 1 |
| 11 | 23020118011 | ARDRA S | | 1 | | | |
| 12 | 23020118012 | ARYA M.R. | | | | 1 | |
| 13 | 23020118013 | DEVA NARAYAN S | 1 | | | | |
| 14 | 23020118014 | GG KRISHNAN | 1 | | | | |
| 15 | 23020118015 | KARTHIKA. S. NAIR | \checkmark | | | | |
| 16 | 23020118016 | LEKSHMI SURESH | | | 1 | 1 | 1 |
| 17 | 23020118017 | MUJEEB RAHUMAN.S | | | | 1 | |
| 18 | 23020118018 | NANDANA GOPAN | 1 | | | | |
| 19 | 23020118019 | NIKITHA SYAM | \checkmark | | | | _ |
| 20 | 23020118020 | PALLAVI A D | | \checkmark | | | |
| 21 | 23020118021 | PRANAV. P | \checkmark | | | | _ |
| 22 | 23020118022 | REMYA B | | | 1 | | |
| 23 | 23020118023 | RENJITH LAL. S. B | 1 | | | | _ |
| 24 | 23020118024 | ROHITH U | | | | 1 | - |
| 25 | 23020118025 | ROOPADM | 1 | | | | - |
| 26 | 23020118026 | SOORAJ S | 1 | | | | |
| 27 | 23020118027 | VISAKH S | | ✓ | | | |
| 28 | 23020118028 | VISAKH.B | | 1 | | | |
| 29 | 23020118029 | АВНІЛТН М | | 1 | | - | _ |
| 30 | 23020118030 | ABHIRAMI B S | | \checkmark | | | _ |
| 31 | 23020118031 | ABHISHEK P B | \checkmark | | | | |
| 32 | 23020118032 | ABHISHEK. A | 1 | | | | - |
| 33 | 23020118033 | ADHWAITH.S.J | | | 1 | | |
| 34 | 23020118034 | AKSHAY .J.M | | | \checkmark | | |

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

L.

| 35 | 23020118035 | ANAND P NAIR | 1 | | | |
|----|-------------|--------------------|------------------|--|--------------|---|
| 36 | 23020118036 | ANIKA M S | 1 | | | |
| 37 | 23020118037 | ANOOP A S | 1 | | | |
| 38 | 23020118038 | ARATHY. L .S | | 1 | | |
| 39 | 23020118039 | ASWIN G L | \checkmark | | | |
| 40 | 23020118040 | ASWIN J S | | | \checkmark | |
| 41 | 23020118041 | ASWIN M S | | | \checkmark | |
| 42 | 23020118042 | BHARATHKRISHNA P | | | \checkmark | |
| 43 | 23020118043 | DETHAN R S | | | \checkmark | |
| 44 | 23020118044 | GAUTHAMY ANIL | 1 | | | |
| 45 | 23020118045 | KISHORE MADHAV | \checkmark | | | |
| 46 | 23020118046 | LEKSHMI PRADEEP. S | | | \checkmark | |
| 47 | 23020118047 | NANDA. S. S | \checkmark | 1 | | |
| 48 | 23020118048 | PREETHI P.S. | 1 | | | |
| 49 | 23020118049 | SABARIKANTH S S | | | 1 | |
| 50 | 23020118051 | SNEHA P | 1 | | | |
| 51 | 23020118052 | SYAMKUMAR. S | 1 | | | |
| 52 | 23020118053 | VISHAL. B | | 1 | | |
| 53 | 23020118054 | JAZIM IBRAHIM | 1 | | | |
| 54 | 23020118055 | NANDANA. A.S | ~ | | | |
| 55 | 23020118056 | NOUREEN S N | 1 | | | |
| 56 | 23020118057 | SREENADH.S | *(-a+*)*(*()=>=) | 1 | | |
| 57 | 23020118058 | PRAVEENA V GOPAL | 1 | | | |
| 58 | 23021118001 | AARDRA N A | 1 | | | |
| 59 | 23021118002 | ABHAY A.S | | | 1 | and the second se |
| 60 | 23021118003 | ABHINAV H B | 1 | | 1 | |
| 61 | 23021118004 | ADARSH M.S | 1 | | | |
| 62 | 23021118005 | AKHIL PRADEEP P B | 1 | | | |
| 63 | 23021118006 | AMAL KISHORE P | | and the second second | 1 | |
| 64 | 23021118007 | AMBADI SURESH S S | 1 | | - 14 | |
| 65 | 23021118008 | ANAND S | 1 | | 1 | |
| 66 | 23021118009 | ARCHA M.S | 1 | | Ì | - |
| 67 | 23021118010 | ARYA R L | | | \checkmark | |
| 68 | 23021118011 | ASWIN A S | 1 | | | |
| 69 | 23021118012 | AVANTHIKA RAJESH | 1 | | 1.1.1.1.1.1 | |
| 70 | 23021118013 | BHAGATH A .R | 1 | | - | |
| 71 | 23021118014 | GADHA M LEKSHMY | | | | |
| 72 | 23021118015 | GOURI. R | \checkmark | | | 1 |
| 73 | 23021118016 | JISHA. L | | | | te contra a |
| 74 | 23021118017 | KANCHANAKRISHNA | 1 | ······································ | | |
| 75 | 23021118018 | MEENAKSHI A M | | | | |

| 76 | 23021118019 | PARTHAN.A.S | | | | | |
|-----|--|------------------|--------------|--------------|--------------|---|--|
| 77 | 23021118020 | PARVATHY PRATHAP | | | | | |
| 78 | 23021118021 | REMYA CHANDRAN | | | | | |
| 79 | 23021118022 | SAJIN R | 1 | | | | |
| 80 | 23021118023 | SIDHARTH J | 1 | | - | | |
| 81 | 23021118024 | SNEHA A | | \checkmark | | | |
| 82 | 23021118025 | SREELEKSHMI B | \checkmark | | | | |
| 83 | 23021118026 | A ASWAL | | 1 | | | |
| 84 | 23021118027 | ABHINAV.V.S | | | | 1 | |
| 85 | 23021118028 | ABIN .A.S. | \checkmark | | | | |
| 86 | 23021118029 | ADITHYA RAJU | | | 1 | | |
| 87 | 23021118030 | AKASH S K | 1 | | - | | |
| 88 | 23021118031 | AKSHAY JOSHUA | 1 | | | | |
| 89 | 23021118035 | ARJUN DEV. G | \checkmark | | | | |
| 90 | 23021118036 | ASWIN DAS S G | \checkmark | | | | |
| 91 | 23021118037 | ASWIN S M | | \checkmark | | | |
| 92 | 23021118038 | GAUTHAM S NAIR | 1 | | | | |
| 93 | 23021118039 | GOKUL B S | 1 | | | | |
| 94 | 23021118040 | GOPIKA L | | | 1 | | |
| 95 | 23021118041 | KARTHIKA .B.A | | | 1 | | |
| 96 | 23021118042 | KRISHNAJA. M | 1 | | | | |
| 97 | 23021118043 | MEGHNA PRAMOD | | | | | |
| 98 | 23021118044 | NIVEDA N V | \checkmark | | | | |
| 99 | 23021118045 | SNEHA S | | | | | |
| 100 | 23021118046 | SRAVAN S P | 1 | | | | |
| 101 | 23021118047 | SRUTHI .S | 1 | | | | |
| 102 | 23021118048 | VISHNU B A | 1 | | | | |
| 103 | 23021118049 | ATHUL VIJAY V S | | | \checkmark | | |
| 104 | 23021118050 | BEENA.P | 1 | | | | |
| 105 | 23021118051 | MEKHA .U | | 1 | | | |
| 106 | 23021118052 | RIJU. B. | 1 | | | | |
| 107 | 23021118053 | SAJITH.S | | | | | |
| 108 | 23021118055 | VISHNU S | 1 | | | | |
| 109 | 23019118038 | ASWANTH V S | | | | | |
| 110 | 23019118039 | ASWIN DEV J | 1 | | | | |
| 111 | 23019118040 | | | | | | |
| 112 | 23019118040 | GOVIND C | | | | | |
| 113 | 23019118041 | | 1 | | | | |
| 114 | 23019118042 | | | 1 | | | |
| 115 | + + | | 1 | | | | |
| 115 | and the second s | AND STRACTION | 1 | | | | |

D)

| 35 | 23020118035 | ANAND P NAIR | 1 | | | |
|----|-------------|--------------------|--------------|---|--------------|---|
| 36 | 23020118036 | ANIKA M S | \checkmark | | | |
| 37 | 23020118037 | ANOOP A S | 1 | | | |
| 38 | 23020118038 | ARATHY. L .S | | 1 | | |
| 39 | 23020118039 | ASWIN G L | 1 | | | |
| 40 | 23020118040 | ASWIN J S | | | 1 | |
| 41 | 23020118041 | ASWIN M S | | | 1 | |
| 42 | 23020118042 | BHARATHKRISHNA P | | | \checkmark | |
| 43 | 23020118043 | DETHAN R S | | | 1 | |
| 44 | 23020118044 | GAUTHAMY ANIL | 1 | | | |
| 45 | 23020118045 | KISHORE MADHAV | 1 | | | |
| 46 | 23020118046 | LEKSHMI PRADEEP. S | | | 1 | |
| 47 | 23020118047 | NANDA. S. S | 1 | | | |
| 48 | 23020118048 | PREETHI P.S. | 1 | | | |
| 49 | 23020118049 | SABARIKANTH S S | | | 1 | |
| 50 | 23020118051 | SNEHA P | 1 | | | |
| 51 | 23020118052 | SYAMKUMAR. S | 1 | | | |
| 52 | 23020118053 | VISHAL. B | | 1 | | |
| 53 | 23020118054 | JAZIM IBRAHIM | \checkmark | | | |
| 54 | 23020118055 | NANDANA. A.S | 1 | | | |
| 55 | 23020118056 | NOUREEN S N | 1 | | | |
| 56 | 23020118057 | SREENADH.S | | 1 | | |
| 57 | 23020118058 | PRAVEENA V GOPAL | 1 | | | |
| 58 | 23021118001 | AARDRA N A | 1 | | | |
| 59 | 23021118002 | ABHAY A.S | | | 1 | |
| 60 | 23021118003 | ABHINAV H B | 1 | | | |
| 61 | 23021118004 | ADARSH M.S | 1 | | | |
| 62 | 23021118005 | AKHIL PRADEEP P B | 1 | | | |
| 63 | 23021118006 | AMAL KISHORE P | | | 1 | |
| 64 | 23021118007 | AMBADI SURESH S S | 1 | | | |
| 65 | 23021118008 | ANAND S | 1 | 1 | | |
| 66 | 23021118009 | ARCHA M.S | 1 | | | 1 |
| 67 | 23021118010 | ARYA R L | | 1 | 1 | 1 |
| 68 | 23021118011 | ASWIN A S | 1 | | 1 | |
| 69 | 23021118012 | AVANTHIKA RAJESH | V . | | | |
| 70 | 23021118013 | BHAGATH A .R | 1 | | | |
| 71 | 23021118014 | GADHA M LEKSHMY | | | | |
| 72 | 23021118015 | GOURI. R | 1 | | | 1 |
| 73 | 23021118016 | JISHA. L | | | | |
| 74 | 23021118017 | KANCHANAKRISHNA | 1 | | | |
| 75 | 23021118018 | MEENAKSHI A M | | - | - | |

| 117 | 23019118046 | ΝΙΚΗΙΤΗΑ Α Κ | | 1 | and the state of the second |
|-----|-------------|------------------|---|---|-----------------------------|
| 118 | 23019118047 | S BIDHU BHOOSHAN | | 1 | - E |
| 119 | 23019118048 | UDAYALAL R | | | · 🗸 |
| 120 | 23019118049 | VAISHNAVI PRASAD | 1 | | |

HEAD DEPARTMENT OF MYSICS

MAHAI BUGBAURI COLLEGE THRUVANANI HAPURAN

Loover PRINCIPAL Mahatma Gandhi College Thiruvananthapuram

Ň

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

TA Today

Stewart I, and Joines V

Principal Mahatma Gandhi College Thiruvananthapuram

(storthing - Starbure Stimulas and Recognition Hudger, Paladi and Lange Starburg Stimulas and Recognition Hudger, Paladi

ADD ON COURSE DEPARTMENT OF PSYCHOLOGY TRANSACTIONAL ANALSYSIS 2021-2022

MAX MARKS:20

ANSWER THE FOLLOWING

1. Non verbal communication is

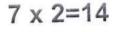
- 2. Active listening is
- 3. Proxemics is
- 4. Paraphrasing is
- 5. Ego grams are
- 6. Strokes is

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





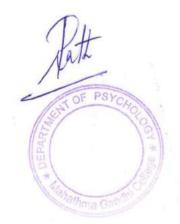
| | Department of Psychology Add on Course Transactional Analysis 2021- 2022 | | | | | | |
|---------|---|------------|---------------|--|--|--|--|
| SI. No. | Name of the Student | Total mark | Mark obtained | | | | |
| 1. | Aiswarya S S | 20 | 18 | | | | |
| 2. | Anakha S | 20 | 19 | | | | |
| 3. | 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 | | | | |
| 17. | Каvya S | 20 | 17 | | | | |
| 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 | | | | |

Conce Conchrati

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

Principal Mahatma Gandhi College

- 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.

Principal Mahatma Gandhi College Thiruvananthapuram



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 |

P. J. D

| | | 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 |
| 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

De Prattikke & Nai

| | 8 | 021-22 | 39.65 | | |
|-----------------------|-----------------------------|------------|--|-------------------------|-------|
| | Add on Course | Yosa and S | tres Management | / | at of |
| and the second second | | ug . | 1 | 37 Kicshna Prasad | 1 |
| | el sinto | NO TO | St. Aniali, Mohan, M | 33. Rahul R | |
| | service the | 2011 | M- amila to | 34. R. DEVAPRIYA | ī |
| | 1. Arsha A.S | TU DC | Ante | 35. KARTHIK. V. NAIR | gast. |
| | 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 |
| | 5. Alewaryc. Sl. | TI D. | alet . | 39. Lekshmi B | TI |
| | 6. Aparana K.N | ttipc | ARE | 40 Abin. P.B | 7 |
| | 5. Scorya, B. Raj | TDDC | Contrust in the | 41 Raisa Sumayya R | I |
| | 7. Vaishakhi D.V | TOC | Vaulshakhi | 42 Atswaiiya Aari | Is |
| | 9. kavya. S | Toc | (k) | 43 Ajmiyer - A-S | IS |
| 1. | 8. Anakha. N | ITI DC | Andelas | 44 Asceathi . P. | IS |
| - | 10. Lekshmi B | TTI DC | 1 ekstrin | 45 Goues R | Ist |
| - | 11. DILEEP.T.S | TDC | Carley | A6 Jana.M.J | Ist |
| | 12. Hegha J.s | III DC | Aleghey- | 47 Muhammeel Ashik | Jst |
| h | 13. Sankeerthana . S | TIDC | Santreekthe | 48 Nandana Naie. C.S | Ist |
| | H. Swathy. J. Das | TH DC | B | 49 Thomas. Biju | Ist |
| 12 | 15. Alehisami Raj . A.G | TTDC | Alihizami | 50 Akisa. 7. Rojan | Ist t |
| | 16. Adharsh. A.s | M D c | delight in College | 51 Alveena Mary Byi | I S |
| | 17 AKHIL: A.L | TDC | Alkhi | 52 Amna Thajuden | IS |
| | 18. Gopilca J.R - | III De | (griles) | 53 Anontha keishnan A.T | Ist |
| | 19. Anjali Mohom.M | Шрс | Anjalia | 54 Anjalt. S.L | TSt |
| | 20 . Sanderp chandran . B.M | II DC | Samelup | 55 Apaina. Vijay | IS |
| | 21. Dipin . D.S | шыс | Lipin . | 56 Ardra. S. kumar | Ist |
| | 22. Gayathey Venay | ILD | Gayathy. | 57 Aswani. Deva. A.L | Jst |
| | 23. Sasasmathi Deni.k | II oc | Sarasurathiteus | 58 Jiney P. Joy. | Ist |
| | 2 Suaj Sengh | TTDC | Amapungh | 59 Lekshmi Sanal | 25 |
| _ | 25. Syam kungar. S.S | TTDC | Syang | 60 Megha. br. Mair | Ist |
| | 26. Aneesta Grace | III De | Arice | 61 Promav. B.G | Zst |
| | 27 Kaishna Dev | IL DC | dolshing | 62 Rahi R. place | jst |
| | 28 DOEL DOUGLAS | I De | the financial statements and the | 63 Rajo.R. | 1.2+ |
| | 29. Noundana V | TIL PC | Nandant | KA SUL TD | rSt |

- 20.27 9 10 forshue TT DC Refuel Dunprigs I bc Kasthiks II DC andres The TOC A. III DC fekshal TTOC the Istoc Od marting Istoc Istpc Asman istbe Arniya. estoc PrAswathy . Grange. stoc Jan Mo. stDC unfit. +DC Blandant ... DC thomas DC -Alisa DC cst pc Auma Many Birry. Arma Frayadur. Ist DC IzaliSL stoc estoc Reporter yay .. Andrefine stDc st DC An mile stoc Lehsmilge. st DC Premark. stpc tpc Rahi R ... pc AKSA + DC and T. st Ne