



# SREE NARAYANA COLLEGE KANNUR

ACCREDITED BY NAAC WITH 'A' GRADE (AFFILIATED TO KANNUR UNIVERSITY)

Sree Narayana College Kannur, P.O. Thottada, Kannur, Kerala, India - 670 007

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🌐 [www.sncollegekannur.ac.in](http://www.sncollegekannur.ac.in)



## 1.2 Academic Flexibility

### 1.2.1 Add on /Certificate/Value added programs

**2022-23**

**Sree Narayana college, Kannur**

NACC Re- Accredited with A Grade, CGPA : 3.04

POST GRADUATE AND RESEARCH  
DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE 2022-23

# Hygiene Product Making

Course Co-ordinator

**Mrs. Sreya P**

Asst. Professor & HOD

Dept. Of Chemistry



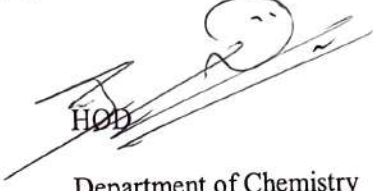
**Register now**

SREE NARAYANA COLLEGE, KANNUR  
PG AND RESEARCH DEPARTMENT OF CHEMISTRY

NOTICE

Date : 02/12/2022

All students of B.Sc fourth and sixth semester and I semester MSc are here by informed that Department is organizing a ' **Certificate Course on Hygiene Product Making** ' from Monday 13<sup>th</sup> December 2022. The interested students can register for the course. For more details contact course co- ordinator Mrs. Sreya P.

  
HOD  
Department of Chemistry

Contact : Mrs. Sreya P  
Assistant Professor of Chemistry  
Mob :9447760744



SREE NARAYANA COLLEGE, KANNUR

PG AND RESEARCH DEPARTMENT OF CHEMISTRY

Certificate Course 2022- 23

**Hygiene Product Making : CH22- CCHPM**

*Course code* : CH22- CCHPM  
*Duration* : 30 Hours  
*Course Co-ordinator* : Mrs. Sreya P

***Learning Outcomes***

*On successful completion of this course, students should be able to*

- *Understand basic idea of composition of soaps*
- *Acquire distinctive knowledge of detergents*
- *Familiarize the components and production of sanitizers*
- *Acquire practical skill in making soaps, detergents and sanitizers*

***COURSE SYLLABUS***

**Unit 1: Composition of Soaps (8hr)**

History of soaps, chemical composition of soaps, difference between soaps and synthetic detergent. fatty acids and oils, hard and soft soap, saponification and neutralization, cleaning action, preparation of different types of soaps. organic soaps, evaluation of various physicochemical characteristics. Determination of total fatty matter (TFM), total alkali, percent (%) of chloride and pH- importance of pH balancing, Analysis of moisture content. WHO standards. environmental impact, health and safety factors

**Unit 2: Production of Detergent powder (5 hr)**

Composition of detergents, sodium carbonate, LABSA (linear alkyl benzen sulphonic acid), sodium lauryl ether sulphate, trisodium phosphate, sodium tripolyphosphate, carboxymethyl cellulose, sodium

sulphate, brighter, colour granules and perfume., biodegradable detergents, surfactants, classification of surfactants, cationic and anionic detergents. Advantages and disadvantages of synthetic detergents over soaps, fillers using in detergent making.

### Unit 3: Composition of Handwash (4 hr)

Composition of Handwash, sodium Laurel ether sulphate, Coco diethanolamine, alpha olefin sulphonate, glycerol, sodium chloride, tri ethanolamine, perfume and water soluble colour. action on micro organisms. Qualities of a good handwash, importance of personal hygiene.

### Unit 4: composition of dishwash (3hr)

Composition of dishwash. linear alkyl benzene sulphonic acid, SLES, sodium hydroxide, carbamide, sodium sulphate, essential oil. Quality of a good dishwash.

### Unit 5: Practicals (10 hr)

Laboratory scale preparation of soaps, Handwash, dishwash, detergents and sanitizers. Determination of iodine value of oil and saponification value, determination of moisture content of fats and oils .pH value checking.

#### Evaluation pattern

Type of questions and marks in the examination

	Total questions	No. Of questions to be answered	Marks of each questions	Total marks	Practical
Very short answer	4	3	1	3	15
Short answer	6	4	2	8	
Short essay	4	2	3	6	
Essay	2	1	8	8	
				25	
					Total 40

**Eligibility for Certificate:** Students having a minimum mark of 20 (theory+ practical) is eligible for certificate

SREE NARAYANA COLLEGE, KANNUR  
PG AND RESEARCH DEPARTMENT OF CHEMISTRY

Certificate Course 2022- 23  
Hygiene Product Making : CH22- CCHPM

Time table 2022-23

Time	Monday	Tuesday	Wednesday	Thursday	Friday
Theory 8.45 - 9.45	PS	MS	UKS	AN	PS
Practical 3.30- 5.00	PS+ AN	UKS+ PS	PS+ KTG	PS+ JK	PS + VVP

PS - Mrs. Sreya P

UKS - Dr. Sumitha Chandran U K

AN - Mrs. Aparna N

JK - Dr. Jithesh K

KTG - Mrs. Geethadevi K T

VVP - Dr. Vinisha Valsaraj P

MS - Mr. Mahesh S

SREE NARAYANA COLLEGE, KANNUR  
PG AND RESEARCH DEPARTMENT OF CHEMISTRY

Certificate Course 2022- 23

**Hygiene Product Making : CH22- CCHPM**

**Enrolled Student List**

Sl No.	Reg no.	Name
1	CH22CC 01	Abhinraj P P
2	CH22CC 02	Fida Faizal
3	CH22CC 03	Fathimathul Khadeeja Shahama
4	CH22CC 04	Neha M
5	CH22CC 05	Maneesha C
6	CH22CC 06	Sneha T C
7	CH22CC 07	Anaswara k
8	CH22CC 08	Samanya P
9	CH22CC 09	Jinsiya C H
10	CH22CC 10	Hridhya T K
11	CH22CC 11	Aparna V
12	CH22CC 12	Ragapriya A
13	CH22CC 13	Anagha sasi
14	CH22CC 14	Sreelakshmi M
15	CH22CC 15	Aiswarya A
16	CH22CC 16	Adheena k
17	CH22CC 17	Aditya m
18	CH22CC 18	Aiswarya m r
19	CH22CC 19	Amaya vinod m
20	CH22CC 20	Anagha p
21	CH22CC 21	Anaina sudheer
22	CH22CC 22	Anamika k
23	CH22CC 23	Anaswara
24	CH22CC 24	Anjitha sajeevan
25	CH22CC 25	Anupama rajarathnam
26	CH22CC 26	Anusree p
27	CH22CC 27	Anwaya c p
28	CH22CC 28	Archana k
29	CH22CC 29	Aswana n
30	CH22CC 30	Ayush k
31	CH22CC 31	Bhuvana m nambiar
32	CH22CC 32	Chaithra nellikka madappally
33	CH22CC 33	Fathimath shahadiya
34	CH22CC 34	Gaadha madhavan
35	CH22CC 35	Ghatha v
36	CH22CC 36	Janya janardhanan
37	CH22CC 37	Lakshmi radhakrishnan

38	CH22CC 38	Manjima manoj
39	CH22CC 39	Nandana kallakudian
40	CH22CC 40	Navya m
41	CH22CC 41	Navya raghvan
42	CH22CC 42	Niranjana v
43	CH22CC 43	Reva prasanth
44	CH22CC 44	Sahal k p
45	CH22CC 45	Sangeeth c
46	CH22CC 46	Saptha m k
47	CH22CC 47	Sneha sajeev
48	CH22CC 48	Thrishna k k
49	CH22CC 49	Sudev C
50	CH22CC 50	Sneha O



# SREE NARAYANA ATTENDANCE

CLASS ..... MONTH December 2022 & January 2023

Ad. No.	Sl. No.	Name	Date																								
			12/12	13/12	14/12	15/12	16/12	17/12	18/12	19/12	20/12	21/12	22/12	23/12	24/12	25/12	26/12	27/12	28/12	29/12	30/12	31/12	1/1	2/1	3/1	4/1	5/1
44		Sahal K.P	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x					
45		Sangeetha C	x	x	x	x	a	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x					
46		Saptha M.K.	x	a	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x					
47		Socha Sajuv	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x					
48		Thyishna K.K.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x					
49		Sudav C	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x					
50		Sruba O	x	x	x	x	x	x	x	x	x	a	x	x	x	x	x	x	x	x	x	x					

**SREE NARAYANA COLLEGE, KANNUR**  
**PG AND RESEARCH DEPARTMENT OF CHEMISTRY**

**Certificate Course 2022- 23**  
**Hygiene Product Making : CH22- CCHPM**

Time : 2 hrs

Marks: 25

**Section A**

( answer any three questions. Each question carries 1 mark)

1. Expand TFM
2. Give an example for surfactants
3. Write any two qualities of a good hand wash
4. What is the function of SLES. (1 x3 =3)

**Section B**

( answer any four questions. Each question carries 2 marks)

5. what is the difference between soaps and synthetic detergents
6. What is the importance of biodegradable detergents.
7. Write down the composition of dish wash
8. Why personal hygiene is important
9. Differentiate between cationic and anionic detergents.
10. What is meant by soft soap. (2 x4 = 8)

**Section C**

( answer any two questions. Each question carries 3 marks)

11. Write a note on cleaning action of soaps
12. What are the advantages and disadvantages of synthetic detergents over soaps.
13. Which are different components of a hand wash. What is their function
14. What are the environmental impacts of soaps and detergents (3 x 2= 6)

**Section C**

( answer any one questions. Each question carries 8 marks)

15. How will you evaluate a) total fatty matter b) total alkali c) percent of chloride of a soap
16. Discuss about the preparation of hand wash ( 1 x 8 = 8)

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Certificate Course 2022- 23  
Hygiene Product Making : CH22- CCHPM

Mark list

Sl No.	Reg no.	Name	Theory (25)	Practical (15)	Total (40)
1	CH22CC 01	Abhinraj P P	18	15	32
2	CH22CC 02	Fida Faizal	25	15	40
3	CH22CC 03	Fathimathul Khadeeja Shahama	25	15	40
4	CH22CC 04	Neha M	22	15	37
5	CH22CC 05	Neha M	21	15	36
6	CH22CC 06	Maneesha C	21	15	36
7	CH22CC 07	Sneha T C	20	15	35
8	CH22CC 08	Anaswara k	22	15	37
9	CH22CC 09	Samanya P	22	15	37
10	CH22CC 09	Jinsiya C H	24	15	39
11	CH22CC 10	Hridhya T K	23	15	38
12	CH22CC 11	Aparna V	21	15	36
13	CH22CC 12	Ragapriya A	22	15	37
14	CH22CC 13	Anagha sasi	24	15	39
15	CH22CC 14	Sreelakshmi M	24	15	39
16	CH22CC 15	Aiswarya A	23	15	38
17	CH22CC 16	Adheena K	24	15	39
18	CH22CC 17	Aditya M	24	15	39
19	CH22CC 18	Aiswarya M R	22	15	37
20	CH22CC 19	Amaya vinod M	21	15	36
21	CH22CC 20	Anagha P	16	15	31
22	CH22CC 21	Anaina sudheer	25	15	40
23	CH22CC 22	Anamika k	24	15	39
24	CH22CC 23	Anaswara	15	15	30
25	CH22CC 24	Anjitha sajeevan	23	15	38
26	CH22CC 25	Anupama rajarathnam	21	15	36
27	CH22CC 26	Anusree P	19	15	34
28	CH22CC 27	Anwaya c P	23	15	38
29	CH22CC 28	Archana K	18	15	33
30	CH22CC 29	Aswana N	24	15	39
31	CH22CC 30	Ayush K	13	15	28
32	CH22CC 31	Bhuvana M nambiar	14	15	29
33	CH22CC 32	Chaithra nellikka madappally	21	15	36
34	CH22CC 33	Fathimath shahadiya	12	15	27
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37	CH22CC 36	Janya Janardhanan	21	15	36

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38	CH22CC 38	Manjima Manoj	18	15	33
39	CH22CC 39	Nandana Kallakudian	16	15	31
40	CH22CC 40	Navya M	19	15	34
41	CH22CC 41	Navya Raghvan	20	15	35
42	CH22CC 42	Niranjana V	21	15	36
43	CH22CC 43	Reva Prasanth	22	15	37
44	CH22CC 44	Sahal K P	17	15	32
45	CH22CC 45	Lijin K	16	15	31
46	CH22CC 46	Saptha M K	21	15	36
47	CH22CC 47	Sneha Sajeev	20	15	35
48	CH22CC 48	Thrishna K K	18	15	33
49	CH22CC 49	Sudev C	19	15	34
50	CH22CC 50	Sneha O	20	15	35



**Post Graduate & Research Department of Chemistry**

**Sree Narayana College, Kannur**

NAAC Reaccredited with A grade

**Certificate of Completion**

Awarded to

{{.....}}

**For successfully completing the certificate course .....  
conducted by Post Graduate and Research Department of Chemistry, and Internal Quality  
Assurance Cell, Sree Narayana College, Kannur, from ..... to .....**

H. O. D. Chemistry

Principal

SREE NARAYANA COLLEGE, KANNUR  
PG AND RESEARCH DEPARTMENT OF CHEMISTRY

Certificate Course 2022- 23

**Hygiene Product Making : CH22- CCHPM**

**Report**

Conducted certificate Course in association with IQAC on the topic Hygiene product Making from 13.12.2022 to 10.01.2023. About 50 students of our department enrolled for the programme. Certificates were issued to students who successfully completed the course. Syllabus includes theory and practicals behind the various hygiene products that we use in our day to day life. Mrs. Sreya P was the coordinator of the programme.



Students after the completion of their certificate course conducted an exhibition and sale of the products they made. As an extension of this course , our students gave training on hygiene product making to near by kudumbasree units.



This comprehensive training programme equipped our students with knowledge and skills necessary to produce high quality hygiene products ,focusing on theoretical foundations, practical applications and industry regulations.



# Sree Narayana College, Kannur

NAAC Re-accredited with A Grade, CGPA: 3.04

## PG AND RESEARCH DEPARTMENT OF COMMERCE

IN ASSOCIATION WITH  
IQAC

ADD-ON COURSE  
2022-23



# TALLY + GST



### ABOUT THE COURSE

The "Tally with GST" course is a comprehensive and essential program designed to equip students, individuals and businesses with the knowledge and skills required to effectively manage their financial transactions in compliance with the Goods and Services Tax (GST) system. This comprehensive course covers essential topics such as GST implementation, tax compliance, invoice creation, and financial reporting using Tally

### TOPICS COVERED

- ✓ Introduction to Tally
- ✓ GST Basics
- ✓ GST Registration and Invoicing
- ✓ GST Return Filing

## **Syllabus for the Course**

### **TALLY PLUS GST**

**Course Duration:** 30 Hours

**Modules:** 3

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#### **Module 1: Basics of Tally and Accounting (10 Hours)**

##### **1.1 Introduction to Tally**

- **Overview of Tally and its uses.**
- **How to create and manage a company in Tally.**

##### **1.2 Basic Accounting Concepts**

- **Types of accounts (Personal, Real, Nominal).**
- **Golden rules of accounting.**

##### **1.3 Recording Transactions**

- **Sales, purchases, payments, and receipts entries.**
  - **Basic reports like Balance Sheet and Profit & Loss.**
- 

#### **Module 2: GST Setup and Transactions in Tally (10 Hours)**

##### **1.1 Introduction to GST**

- **What is GST and its types (CGST, SGST, IGST).**
- **How GST works in business.**

##### **1.2 Configuring GST in Tally**

- **Enabling GST in Tally.**
- **Creating GST-ledgers and tax rates.**

##### **1.3 Recording GST Transactions**

- **Sales and purchases with GST.**
  - **GST reports like GSTR-1 and GSTR-3B.**
- 

#### **Module 3: Advanced Features in Tally with GST (10 Hours)**

##### **1.1 Managing Inventory**

- **Creating stock items and categories.**
- **Recording stock transactions.**

##### **1.2 Advanced GST Features**

- **Reverse Charge Mechanism (RCM).**
- **GST for service providers and composition dealers.**

### **1.3 Finalizing Accounts**

- **Year-end adjustments and filing GST returns**

**PG AND RESEARCH DEPARTMENT OF COMMERCE**

**ADD-ON CERTIFICATE COURSE**

**TALLY PLUS GST**

**DETAILS OF ENROLLED STUDENTS**

<b>SL NO.</b>	<b>NAME OF THE STUDENT</b>
1	ASHWAMI K
2	AISWARYA TV
3	ANU KRISHNA. K
4	YADHUKRISHNA PS
5	AVANYA RAJITH
6	SWETHA . K
7	VISMAYA VIVEK
8	MEGHA BABURAJ
9	SANDHRA RAJEEV
10	SWETHA PC
11	ASHLY K V
12	NIHARA RAGESHAN
13	VYSHNAV P P
14	ANAMIKA
15	ANEENA
16	ANJIMA
17	ANURAG C V
18	ANUROOP
19	ANURUDH
20	APSARA
21	ARJUN N C
22	ARUNDATHI
23	ATMAJ
24	DIYA
25	ALEKHYA
26	ANGEL
27	ANUPRIYA
28	ARJUN K
29	DIVYA V R
30	JASNA JALEEL
31	JEEVANA
32	KRISHNANJANA
33	ANUGRAH MV
34	ANURAJ K
35	ARUNIMA C V
36	DEVADATHAN.C
37	DEVANANDHA P
38	DEVANJANA P K
39	DEVI THEERTHA K

40	DEVIKA M
41	DHIYA K
42	ANUGRAH MV
43	ARYA K
44	ASRITH K V
45	AVANTHIKA.R
46	AVANTIKA PRAMOD VISWANATHAN
47	CHAITHRA VINOD
48	DIYA PRAKASH
49	DIYA SUJITH
50	FATHIMA SHIFA M K
51	GOPIKA C
52	HANEENA HASHM P
53	HANNA MUHAMMED ALI
54	JAIDEEP P
55	JIBINA A
56	AMRUTHA K
57	ANIRUDH A
58	ANUGRAH A
59	ANURAG K
60	AMRUTHA K
61	NAKSHATHRA P
62	NANDANA K
63	NIVEDYA P P
64	HRIDHIKRAJ K
65	HRISHIDA HARI
66	KRISHNAPRIYA M
67	NAMITHA K
68	AISWARYA HEMANTH
69	JYOTHIKA V

# CERTIFICATE

OF COMPLETION

PROUDLY  
PRESENTED TO:

*{{ Full Name }}*

For successfully completing the 30 Hour Add on Course on TALLY + GST  
conducted by the PG and Research Department of Commerce and Internal  
Quality Assurance cell, Sree Narayana College, Kannur from June 2022 to  
March 2023 with A+ Grade

\_\_\_\_\_  
HoD, Commerce



\_\_\_\_\_  
Principal



# Sree Narayana College, Kannur

NAAC Re-accredited with A Grade, CGPA: 3.04

## PG AND RESEARCH DEPARTMENT OF COMMERCE



ADD-ON COURSE  
2022-23

# PRACTICAL ACCOUNTING AND TAX PRACTICE



### ABOUT THE COURSE

The Practical Accounting and Tax Practice Course is designed to provide students with a comprehensive understanding of accounting principles and taxation concepts. This course equips participants with the knowledge and skills necessary to succeed in accounting and tax-related professions.

### TOPICS COVERED

- ✓ Fundamental Accounting Principles
- ✓ Taxation Essentials
- ✓ Practical Application
- ✓ Compliance and Regulation

**"SYLLABUS - Diploma in Practical Accounting and Tax Practice [DPATP]  
Code - COM -1327**

**1. Academic system of Accounting [Journal - Ledger System]**

Basic Principles of Accounting - Journalizing, Ledger Posting, Balancing, Preparation of Trial Balance and Finalization of Accounts (Preparation of Trading Account, Profit and Loss Account and Balance Sheet.)

**2. PRACTICAL ACCOUNTING 1. Day Book - Ledger System of Accounting**

with detailed application of GST. Preparation of Day Book (Conversion of Academic System to Practical System). Ledger Posting, Balancing, Preparation of Trial Balance, Schedules for Purchase, Sales, Sundry Debtors, Sundry Creditors and other Accounts- Valuation of Closing Stock-Preparation of Final Accounts (Trading Account - Profit and Loss Account and Balance Sheet)- Other necessary statements to be produced before the Tax Authorities and Management. Application of GST, Preparation of Statements of Purchases, Sales, Input Tax, Output Tax, preparation of GST Returns and E-Filing. 2. Cash Book - Subsidiary Book - Ledger System

This system of practical accounting contains accounts of large scale organizations having different Departments like Purchase Department, Sales Department, Cash Department etc. and a Group of Accountants working in different Departments. 3. Preparation of Cash Book - Purchase Day Book - Sales Day Book, Purchase and Sales Returns Books, Bills Receivable Book, Bills Payable Book and Journal Proper (Detailed Study) General Ledger - Debtors Ledger, Creditors Ledger, Purchase Register, Sales Register, Cheque Receivable Register- Cheque Payable Register etc...Preparation of Schedules - Trial Balance, Computation of Stock, Depreciation, Bad Debts and Discounts etc. Preparation of Final Accounts. 4. Preparation of Bank Reconciliation Statement (Practical)

5. Preparation of Project Report for obtaining Overdraft from Banks. 6. Practical accounting of different types of business organisations:

a) Generation of the account of a TEXTILE shop based on Shop Inspection Report (SIR) b) Preparation of the accounts of a Jewellery from available information. c) Preparation of the accounts of a non trading organization (Hospital) d) Preparation of the accounts of a financial institution (Money Lending institution) 7. Rectification of different types of accounting errors. 8. Introduction: KGST Act 1963, & Rules - Historical data- need for the introduction of VAT system in India - Single point tax, - points of levy- schedules in KGST- ST, AST, - Surcharge, Forms - Goods and Service Tax: Difference between direct and indirect tax - single point Tax system and multi point Tax system - Introduction to GST - Constitutional Amendment for GST - objectives - understanding the concept of GST - subsuming of multiple taxes in the present system - salient features of GST - destination based Tax - dual GST to be levied by the Centre and State simultaneously - CGST-SGST (UTGST)-IGST-. Advantages of GST - Difference between direct and indirect tax - single point Tax system and multi point Tax system -.

9. Section wise analysis of GST (with related Rules and Forms) Module 1. S1 Short title- extent and commencement - S2 Definitions: Aggregate turn over - business - business vertical - input tax - out put tax - inward supply - outward supply - composite supply - mixed supply - consideration - input service distributor - input service - nonresident taxable person - reverse charge - tax return preparer - credit note, debit note, exempt supply - export of goods, - export of service, IGST, import of goods - import of service - input service - input service distributor - input tax - input tax credit - inward supply - place of supply - outward supply - continuous supply of goods - service - reverse charge - zero rated supply, - works contract - Module 2. S3 Officers under this Act, - S4. appointment, - S5 powers etc. Module-3: S7. Levy & Collection: Supply - S8. tax liability on composite and mixed supplies S9. Charging Section - Reverse charge - levy and collection of tax - S 10. Tax liability on composite and mixed supplies - Rules - GSTCMP 01 and all other forms - effective date of composition levy - conditions - validity - rate of composition. S11. Power to grant exemptions. Module 4. Time and Value of Supply: S12-13 - Time of Supply of goods/services - S 14. Change in rate of tax in respect of supply of goods or services. S15. Value of taxable supply - Module 5. Input Tax Credit: S16 - Eligibility for input Tax credit - conditions for taking input tax credit S17 apportionment of credit and blocked credits S18. Availability of credit in special circumstances S19. taking input tax credit in respect of inputs and capital goods sent for job works. S20 Distribution of credit by input service distributor - Module 6. Registration: S22 - Persons liable for registration S23. Persons not liable for registration - S24. Compulsory registration in certain cases. S25. Procedure for registration S26. Deemed registration - S27. Special provisions relating to casual taxable persons and non resident taxable persons - S28. Amendment of registration - S29. Cancellation of registration - Module 7. Tax Invoice, Debit and Credit Notes: S31 - Tax invoice - S32 - Prohibition of unauthorized collection of tax - S33. Amount of tax to be indicated in tax invoice and other documents - S34. Debit and Credit Notes. - Module 8. S35. Accounts and other records - 36 Period of retention of accounts. Module 9.

Returns; S37 - Furnishing details of outward supplies. - S38. Furnishing details of inward supplies - S39. Submission of returns (R59) - S40. First Return - S41 Claim of input tax credit and provisional acceptance thereof - S42. Matching, reversal and reclaim of input tax credit - S43. Matching, reversal and reclaim of output tax liability. - S44 Annual return - S45. final returns - S46. Notice to return defaulters - S47 Levy of late fee - S48 GST Practitioners - Module 10. Payment of Tax: S49 Payment of tax, interest,

penalty and other amounts - S50 interest on delayed payment of tax - S51. TDS - S 52 Collection of tax at source - S53. Transfer of input tax credit - Module 11. S54 Refund - Module 12. Assessment: S59 - Self assessment - S60 Provisional Assessment - S61. Scrutiny of returns - S62. Assessment of non filers of return - S63 Assessment of unregistered persons - Module 13. Audit: S65 - Audit by tax authorities Module 14. Inspection, Search, Seizure and Arrest S67 Inspection, Search, seizure and arrest - S68 inspection of goods in movement - S69. Power to arrest - S70 Power to summon persons to give evidence and produce documents - S71. Access to business premises - Module 15. Demand and Recovery. S73 Determination of tax not paid or short paid - S74 Determination of tax not paid or short paid by fraud - S76 Tax collected but not deposited to government - S79 Recovery of tax and procedure - Module 16. S85 to S94 Liability to pay tax in certain cases - S95 to 106 - Advance ruling - 107-121 - appeals and revision - Module 17 S122 - 138 Offences and penalties. Module 18. Integrated Goods and Services Tax Act - 2017 Module 19. S4. Authorisation of officers of State Tax or union Territory tax as proper officers in certain circumstances Module 20. S7 - interstate supply - S8 - intra state supply - S9 supplies in territorial waters - S-10 - Place of supply of goods other than supply of goods imported in to or exported from India. S11 - Place of supply of goods imported in to or exported from India. S.12: Place of supply of services where location of supplier and recipient is in India. S.13 - Place of supply of services where location of supplier or location of recipient is outside India. Module 21. S14. Special provision for payment of tax by a supplier of online information and database access or retrieval services. Module 22. S15. Refund of integrated tax paid on supply of goods to tourist leaving India. S16. Zero rated supply - S17: Apportionment of tax and settlement of funds. Module 23. S18: Transfer of input tax credit S19: Tax wrongly collected and paid to central government or state government. 10. Income Tax Act and Rules: Module 1. Short Title, Extent, Commencement Module 2. Definition - Assessee, Assessment Year, Person, (Individual, HUF, Firms, Companies, AOP/BOI, Local Authority, Every Artificial Juridical person) Previous Year - Capital - Assets - transfer - Module 3. Heads of Income - Gross Total Income, Deductions, Total Income, Agricultural Income, Aggregate Income - (80c) - Income Tax Rates - Slab Rate, Flat Rate, Special Rates, Scope of Total Income - Residential Status - Calculation of tax - Rebate on Agricultural Income - Module 4. Charging Section - Regular Tax Rates, Tax Deducted / Collected at Source, Advance Tax, Self Assessment of Tax - Processing of Returns of Income. - Heads of Income - 1 Salary 2 House Property 3. Business or Profession 4 Capital Gains 5 Other Sources - Exemptions. 11. ES - Registration, Calculation, Contribution, Filing - Salary Statement. 12. EPF - Registration, Rates of Contribution and Calculation, PF Statement - Filing details, Salary Statement, TDS etc. 13. TALLY ERP-9 SYLLABUS Meaning of Accounting - Definition of Accounting - Features of accounting - objectives of accounting - Book keeping and accounting - Advantages and limitations of accounting. MODULE -1 Introduction to Accounting Definition - Types of Accounts - Classification of Accounts Rules of Accounting - Journal - Ledger - Journalizing - Ledger posting - Balancing - Trial balance Final Accounts, Final Accounts with Adjustments. Introduction to computerized accounting: computerized accounting Vs. Manual accounting - Tally 9 - Features of Tally - Screen components - Creation of company - selecting a company - altering / modifying company creation details - deleting a company - F11 Features - F12 Configuration MODULE-2 Accounts and Vouchers - Account groups: - Pre-defined groups creating single & multiple groups - creation of primary account groups - creating ledger accounts in single & multiple - displaying, altering and deleting account groups and ledgers - Accounting vouchers - entering transactions in accounting vouchers - bill wise details - altering and deleting a voucher entry - creating new voucher types - modifying an existing voucher - bank reconciliation statement - balance sheet - profit and loss account - trial balance - day books - account books - statement of accounts - list of accounts MODULE -3 Voucher Type: - Type of vouchers - Creating/Customizing new voucher type - Displaying voucher type - Alerting voucher type - Deletion of voucher type MODULE -4 Accounts with inventory: - Enabling F11 and F12 - stock category - stock group - single / multiple creation of stock category and stock group - creation of units of measurement - creating single / multiple stock items - creating godowns - displaying, altering and deleting stock groups, units, items and godowns - cost categories - cost centers - creating cost categories and cost centers - displaying, altering and deleting cost categories and cost centers - purchase / sales orders - inventory vouchers - using inventory vouchers - using accounting vouchers with inventory details (invoice mode) - inventory reports - stock summary - inventory books - statement of inventory. MODULE-5 Introduction of GST - CGST, SGST, IGST, Activating GST, GST ledgers, party ledger creation with GST, Purchase (Inward Supply) & sales (Outward Supply) under GST MODULE-6 Manufacturing, budget and currency: - Manufacturing - Bill of Materials - Manufacturing Journal - Cost estimates - Budget - type of budget - Budget creation - Alteration and Deletion of budget - Currency creation - Adjustment of forex gain/loss - Creation of journal voucher class for forex gain/loss. MODULE-7 - Final Accounts Reports: - Profit and loss account - Balance sheet - Trial balance - Daybook - Account book - Statement of accounts - Tax report. MODULE-8. E-Return Filing - GST & Income Tax.

**BATCH - I**

<b>SL NO</b>	<b>NAME</b>	<b>CLASS</b>
1	AKSHAY BABU K V	SECOND M.COM
2	ASHRAYA RAJEEV	SECOND M.COM
3	MUHAMMED SHANID E M	SECOND M.COM
4	VISHNUPRIYA B C	SECOND M.COM
5	ANDREA AJITH	THIRD B.COM COOP
6	ASWANI A	THIRD B.COM COOP
7	K AFEEFA	THIRD B.COM COOP
8	VANDANA PADMAKUMAR	THIRD B.COM COOP
9	ANAGHA K	THIRD B.COM FIN
10	ANAGHA RAJEEVAN AV	THIRD B.COM FIN
11	ANOOP A	THIRD B.COM FIN
12	APARNA SUJITH	THIRD B.COM FIN
13	ARJUN P	THIRD B.COM FIN
14	ARYASREE P	THIRD B.COM FIN
15	ASWANTH K	THIRD B.COM FIN
16	AVANI ANIL	THIRD B.COM FIN
17	CHANDANA SATHIARENJAN	THIRD B.COM FIN
18	DHIYA M P	THIRD B.COM FIN
19	DIYA M	THIRD B.COM FIN
20	FASNA V P	THIRD B.COM FIN
21	GEETHIKA K P	THIRD B.COM FIN
22	JESIKA JENILKUMAR	THIRD B.COM FIN
23	KEERTHANA M K	THIRD B.COM FIN
24	MALAVIKA SAJEEVAN	THIRD B.COM FIN
25	MILEEN JOSEPH	THIRD B.COM FIN
26	NANDANA ANISH	THIRD B.COM FIN
27	NANDANA DHANANJAYAN	THIRD B.COM FIN
28	NANDANA K	THIRD B.COM FIN

29	NANDHANA E V	THIRD B.COM FIN
30	NISHEEDAS	THIRD B.COM FIN
31	PRANAV M R	THIRD B.COM FIN
32	RITHUSREE VINOD	THIRD B.COM FIN
33	RIYA P	THIRD B.COM FIN
34	SANGEETHA M	THIRD B.COM FIN
35	SANJANA K	THIRD B.COM FIN
36	SHARIKA S KUMAR	THIRD B.COM FIN
37	SNEHA HARIDAS	THIRD B.COM FIN
38	SRAVANA K	THIRD B.COM FIN
39	SREETHA RAMESH	THIRD B.COM FIN
40	SREEYUKTHA V	THIRD B.COM FIN
41	SREYA K	THIRD B.COM FIN
42	VAISHAKI T V	THIRD B.COM FIN

**BATCH - II**

<b>SL NO</b>	<b>NAME</b>	<b>CLASS</b>
1	ABHIRAM P V	FIRST B.COM COOP
2	ADITHYA P	FIRST B.COM COOP
3	C AKSHAYA	FIRST B.COM COOP
4	GOPIKA T K	FIRST B.COM COOP
5	MEGHA E	FIRST B.COM COOP
6	SNEHA K K	FIRST B.COM COOP
7	SREENANDANA T	FIRST B.COM COOP
8	ADITI DINESH	FIRST B.COM FIN
9	ANUPRIYA M V	FIRST B.COM FIN
10	ANUSHKA ASHOK	FIRST B.COM FIN
11	ANUSREE PRADEEP	FIRST B.COM FIN
12	ARJUN RAJAN	FIRST B.COM FIN
13	AVANITIKA PRAMOD	FIRST B.COM FIN
14	DIYA SUJITH	FIRST B.COM FIN
15	JAIDEEP P	FIRST B.COM FIN
16	LAYA PP	FIRST B.COM FIN
17	MANASA MANOJ	FIRST B.COM FIN
18	NANDA K	FIRST B.COM FIN
19	POURRNAMI PRAKASH	FIRST B.COM FIN
20	RABEEH K	FIRST B.COM FIN
21	RENISHA A C	FIRST B.COM FIN
22	SHEENA P C	FIRST B.COM FIN
23	ABHIRAMI P	SECOND B.COM COOP
24	ADARSH GOVIND	SECOND B.COM COOP
25	AISWARYA A	SECOND B.COM COOP
26	AJANYA C M	SECOND B.COM COOP
27	AKSHAY K	SECOND B.COM COOP
28	AMBIKA P	SECOND B.COM COOP

29	ANUKRISHNA L	SECOND B.COM COOP
30	APOORVA K	SECOND B.COM COOP
31	ARJUN S	SECOND B.COM COOP
32	ASHLY K V	SECOND B.COM COOP
33	AVANYA RAJITH	SECOND B.COM COOP
34	DRISHYA PRADEEP	SECOND B.COM COOP
35	GOKUL A	SECOND B.COM COOP
36	NANDANA SATHEESH	SECOND B.COM COOP
37	NANDANA T	SECOND B.COM COOP
38	NOVA GRACE	SECOND B.COM COOP
39	PRANAVIYA C H	SECOND B.COM COOP
40	VISMAYA VIVEK	SECOND B.COM COOP
41	VYSHNAV P P	SECOND B.COM COOP
42	YADHU KRISHNA P S	SECOND B.COM COOP
43	ALEKHYA SANTHOSH	SECOND B.COM FIN
44	GOPITHA SHIVANANDAN	SECOND B.COM FIN
45	HANIMA HAREESH	SECOND B.COM FIN
46	MEGHNA PRAKASH	SECOND B.COM FIN
47	NAMITHA MOHAN	SECOND B.COM FIN
48	NILNA SUNDAR	SECOND B.COM FIN
49	VISHNUPRIYA K	SECOND B.COM FIN

# CERTIFICATE

OF COMPLETION

PROUDLY  
PRESENTED TO:

*{{ Full Name }}*

For successfully completing the 30 Hour Add on Course on TALLY + GST  
conducted by the PG and Research Department of Commerce and Internal  
Quality Assurance cell, Sree Narayana College, Kannur from June 2022 to  
March 2023 with A+ Grade

\_\_\_\_\_  
HoD, Commerce



\_\_\_\_\_  
Principal



# Sree Narayana College, Kannur

NAAC Re-accredited with A Grade, CGPA: 3.04

## DEPARTMENT OF ECONOMICS IN ASSOCIATION WITH IQAC

### ADD-ON COURSE 2023

# ECONOMICS OF TRAVEL AND TOURISM

## TOPICS COVERED

- ✓ Introduction to Travel and Tourism Economics
- ✓ Demand and Supply in the Tourism Industry
- ✓ Tourism Market Structures
- ✓ Economic Impact of Tourism



**POST GRADUATE DEPARTMENT OF ECONOMICS, S.N COLLEGE,  
KANNUR**

**ADD ON COURSE- ECONOMICS OF TRAVEL AND TOURISM**

**(2022-23)**

**Syllabus with course outcomes and modules**

**Course Outcome:**

With the completion of this course the students will be able to

- Identify the basic concepts and importance of tourism
- Assess the various agencies involved in the tourism development.
- Understand the various types of tourism and its significance.
- Identify the various tourism products and marketing of tourism
- Identify various agencies involved in tourism development

**Assessment and Evaluation pattern**

Mode of Assessment: Course and examination

Total Marks: 50

Practical: 10 marks

Theory: 40 marks

Name and signature of Course Co-ordinator

Dr. Rajeev M. 

Name and signature of H.O.D



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**P.G. DEPARTMENT OF ECONOMICS**  
**SREE NARAYANA COLLEGE**  
**P.O. THOTTADA, KANNUR - 670007**



Course Title: **ECONOMICS OF TRAVEL AND TOURISM**

Course Category: **ADD ON COURSE**

Contact Hours: 30

Objectives

The travel and tourism industry are widely recognised as the world's number one industry and the more dynamic and largest business in the world. India, particularly Kerala is not an exception from this. Under these circumstances the important objective of this course is to make awareness about the economic importance of travel and tourism to students

Course Content

### **Module 1 Introduction to Travel and Tourism**

Introduction, nature and scope of travel and tourism- Forms and types of tourism- Major tourism centres in Kerala- Importance and motivations of tourism- Impact of tourism with special reference to Kerala. (5 Hours)

### **Module II Tourism Planning and Marketing**

Planning and development of tourism in India- Techniques of tourism planning- Designing and managing tourist resorts- Tourism Marketing. (10 Hours)

### **Module III Tourism Guidance**

Travel and tourism guidance of Indian and foreign tourists- Basic skills essential for tourist guides- Guidance for special recruitment of tourists- Guidance through foreign languages. (10 Hours)

### **Module IV Recent trends tourism**

Recent trends in Indian and International tourism- Tourism Industry accounting- Receipts and expenditure accounts- Profit and loss account and balance sheet. (5 Hours)

### **References**

1. Jag Mohan Negri, Tourism and Travel: Concepts and Principles
2. Bhatia, Tourism Development
3. Pran Nath Seth, Successful Tourism Management
4. A.K Bhatia, International Tourism Management.



Sl No.	Name	Class	4/7	8/7	14/7	18/7	21/7	26/7	1/8	9/8	16/8
1	ADHEENA R.K	III BA	x	x	x	x	x	x	x	x	x
2	ANANYA N		x	x	x	a	x	x	x	x	x
3	DEVI NANDAN S		a	x	x	x	x	x	x	x	x
4	HIMA P.P		x	x	x	x	x	x	x	x	x
5	ARYA NADIYAK		x	x	x	x	a	x	x	x	x
6	NIHARA PAVITHRAN		x	x	x	x	x	x	x	x	x
7	SIMI K		x	x	x	x	x	x	x	x	x
8	SREETHA V		x	x	x	x	x	x	x	x	x
9	SUHANDH PRADIP		x	x	x	x	x	a	x	x	x
10	ASHINANDHA E		x	x	x	x	x	x	x	x	x
11	ARCHA BANARHDHANAN		x	x	x	x	x	x	x	x	x
12	ASWATHIC		a	x	a	x	x	x	x	x	x
13	KRIPA SURENDRANATH		x	x	x	x	x	x	x	x	x
14	NEHA A.M		x	x	x	x	x	x	x	x	x
15	RISHA A.P		x	x	x	x	x	x	x	x	x
16	SAYANTH P.K		x	x	x	x	x	x	a	x	x
17	GOKUL P.P		x	x	x	x	x	x	x	x	x
18	ANANYA T.V		x	x	x	x	x	x	x	x	x
19	NANDANA DINESH E		x	a	x	x	x	x	x	x	x
20	USHANA K		x	x	x	x	x	x	x	x	x
21	AMAL M	II BA	x	x	x	x	x	x	x	x	x
22	ARJUN P.P		x	x	x	x	x	x	x	x	x
23	ATHUL P		a	x	x	x	x	x	x	x	x
24	ADHEENA T.M		x	x	x	x	x	x	x	x	x
25	MANDIMA MURALI K		x	x	x	x	x	x	a	x	x
26	NANDHANA K.C		x	x	a	x	x	x	x	x	x
27	SIVANI P		x	x	x	x	x	x	x	x	x
28	THANAYA M		x	x	x	x	a	x	x	x	x
29	AISWARYA MANOJ		x	x	x	x	x	x	a	x	x
30	ARSJITHA ANIL		x	x	x	x	x	x	x	x	x
31	ASWATHI PRASANTHI		x	x	x	x	x	x	x	x	x
32	KEERTHANA K		x	x	x	x	x	x	x	x	x
33	NANDANA A		a	x	x	x	x	x	x	x	x
34	NANDANA K.V		x	x	x	x	x	x	x	x	x
35	NANDANA DILEEP		x	x	x	x	x	x	x	x	x
36	ARYA V		x	x	x	x	a	x	x	x	x

**ADD ON COURSE  
ATTENDANCE REGISTER**

**31**

Sr	Name	class	4/7	8/7	12/7	18/7	21/7	26/7	1/8	9/8	16/8
37	ABDHISHA.K		x	x	x	x	x	9	x	x	x
38	SHAVANA.B		x	x	x	x	x	x	x	x	x
39	SHADYA.N.K	189	9	x	x	9	x	x	x	x	9
40	HAMMA UMMA.A.T		x	x	x	x	x	x	x	x	x
41	NONDANA.N		x	x	x	x	x	x	x	x	x
42	NANDANA.P		x	x	x	x	x	x	x	x	x
43	NIWARA.M.A		x	x	x	x	x	x	x	x	x
44	ADITHYARAJEEVAN		x	x	x	x	x	x	x	x	x
45	ANASWARA.K		x	x	x	x	x	x	x	x	x
46	ASWANI.V		x	x	x	x	x	x	x	x	x
47	AYSHA SHERIN		x	x	x	x	x	x	x	x	x
48	FAMMEEDA.N		x	x	9	x	x	x	x	x	x
49	GADAKASOPIKA HAREESH		x	x	x	x	x	x	9	x	x
50	KERRATHANA.P.K		x	x	x	x	x	9	x	x	x
51	NAVYA.E.		x	x	x	x	x	x	x	x	x
52	NEHA.K		x	x	x	x	x	x	x	x	x
53	NYUEDYA.K		x	x	x	x	x	x	x	x	x
54	RAHIL.K.T		x	x	x	x	x	x	x	x	x
55	RIYA KASHTIMA.R.M		9	x	x	x	x	x	x	x	x
56	VIVEK.K.A		x	x	x	x	x	x	x	x	x
57	VISHNU.N		x	x	x	x	x	x	x	x	x
58	NIYURTHA.K.P		x	x	x	x	x	9	x	x	x
59	JYOTHIRMA.P.K		x	9	x	x	x	x	x	x	x
60	HARSHA.A		x	x	x	x	x	x	x	x	x
61	DIYA.A		x	x	x	x	x	x	x	x	x



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23-24 32


## ADD ON COURSE ATTENDANCE REGISTER

S.No.	Name	22/8	24/8	30/8	1/9	5/9	5/9	10/9	17/9	24/9	22/9	30/9	1/10
1	Adheena R. K	x	x	x	x	x	x	x	x	a	x	x	x
2	Ahanya N	a	x	x	x	x	x	x	x	x	x	x	x
3	Devanandan S	x	x	x	x	x	x	x	x	x	x	x	x
4	Hima P. P	x	x	x	x	x	x	x	x	x	x	x	x
5	Najiya K	x	x	x	x	a	x	a	x	x	x	x	x
6	Nihara Pavithran	x	x	x	x	x	x	x	x	x	x	x	x
7	Sini K	x	x	x	x	x	x	x	x	x	x	x	x
8	Sreethi V	x	x	x	x	x	x	x	x	x	x	x	a
9	Songandh Pradeep	x	x	x	x	x	x	x	x	x	x	x	x
10	Abhinanda E	x	x	x	x	x	x	x	x	x	x	x	x
11	Archa Sanardhanan	x	x	x	x	x	x	x	x	x	x	x	x
12	Aswani C	x	x	x	x	x	x	a	x	x	x	x	x
13	Kripa Sorendranath	x	x	x	x	x	x	x	x	x	x	x	x
14	Neha A. M	x	x	x	x	x	x	x	x	x	x	x	x
15	Risha A. P	x	x	x	x	x	x	x	x	x	x	a	x
16	Sayanath P. K	x	x	a	x	x	x	x	x	x	x	x	x
17	Gokul P. P	x	x	x	x	x	x	x	x	x	x	x	x
18	Anagha T. V	x	x	x	x	x	x	a	x	x	x	x	x
19	Nandana Dinesh E	x	x	x	x	x	x	x	x	x	x	x	x
20	Vyshnav K	x	x	x	x	x	x	x	x	x	x	x	x
21	Amal M	x	x	x	a	x	x	a	x	x	a	x	x
22	Arijun P. P	x	x	x	x	x	x	x	x	x	x	x	x
23	Athul P	a	x	x	x	x	x	x	a	x	x	x	x
24	Adheena T. M	x	x	x	x	x	x	x	x	x	x	x	x
25	Manjima Murali K	x	x	x	x	x	x	x	x	x	x	x	x
26	Nandana K. C	x	x	x	x	x	x	x	x	x	x	x	x
27	Sivani P	x	x	x	x	x	x	x	x	x	x	x	x
28	Tharaja M	x	x	x	x	x	x	x	x	x	x	x	x
29	Aswathy Manoj	x	x	x	a	x	x	x	x	x	x	x	x
30	Aswathy Anand	x	x	x	x	x	x	x	x	x	x	x	x
31	Aswathi Poosanth	x	x	x	x	x	x	a	x	x	x	x	x
32	Keerthana K	x	x	x	x	x	x	x	x	x	x	x	a
33	Nandana A	x	x	x	x	x	x	x	x	x	x	x	x
34	Nandana K. C	x	x	x	x	x	x	x	x	x	x	x	x
35	Nandana Dilcep	a	x	x	x	x	x	x	x	x	x	x	x
36	Arja N	x	x	x	x	x	x	x	x	a	x	x	x

# ADD ON COURSE ATTENDANCE REGISTER

Sl No	Name	22/8	24/8	30/8	1/9	5/9	6/9	10/9	17/9	24/9	27/9	30/9	1/10	8/10
37	Adhisha.K	x	x	x	x	x	x	x	x	x	x	x	x	x
38	Bhavana.B	x	x	x	a	x	x	x	x	a	x	x	x	x
39	Bhavya.N.K	x	x	x	x	x	x	x	x	x	x	x	x	x
40	Hamna Ummer - A.T	x	x	x	x	x	a	x	x	x	x	x	x	x
41	Nandana.N	x	x	x	x	x	x	x	a	x	x	x	x	x
42	Nandana.P	x	x	x	x	x	x	x	x	x	x	x	x	x
43	Nikhara.M.A	x	x	x	x	x	x	x	x	x	x	x	x	x
44	Adhitya Rajeevan	a	x	x	x	x	x	x	x	x	x	x	x	x
45	Anaswara.K	x	x	x	x	x	x	x	x	x	x	x	x	x
46	Aswani.V	x	x	x	x	x	x	x	x	x	x	x	x	x
47	Aysha Sherin	x	x	x	x	a	x	x	x	x	x	x	x	x
48	Tahmeeda.N	x	x	x	x	x	x	x	a	x	x	x	x	x
49	Geopika Hareesh	x	x	x	x	x	x	x	x	x	x	x	x	x
50	Keerthana.P.K	x	x	x	x	x	x	x	x	x	x	x	x	x
51	Navya.E	x	x	x	x	x	x	x	x	x	x	x	x	x
52	Neha.K	x	x	x	x	x	x	x	x	x	a	x	a	x
53	Nivetha.K	x	x	x	x	x	x	x	x	x	x	x	x	x
54	Rahil.K.T	x	x	x	x	x	x	x	x	x	x	x	x	x
55	Riya Fatima.B.M	x	x	x	x	x	x	x	x	x	x	x	x	x
56	Vivek.K.A	x	x	x	x	x	x	x	x	x	x	x	x	x
57	Vishnu.N	x	x	x	x	x	x	x	x	x	x	x	x	x
58	Niyuktha.K.P	x	x	x	x	a	x	x	x	x	x	x	a	x
59	Jyothirma.P.K	a	x	x	x	x	x	x	x	x	x	x	x	x
60	Harsha.A	x	x	x	x	x	x	x	x	x	x	x	x	x
61	Diya.A	x	x	x	x	x	x	x	x	x	x	x	x	x



  
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**P.O. THOTTADA, KANNUR - 670007**


## ADD ON COURSE ATTENDANCE REGISTER

Sl No.	Name	15/10	21/10	28/10	4/11	11/11	14/11	21/11	28/11	4/12	11/12
1	ADHEENA-K.K	x	x	x	x	x	x	x	x	x	x
2	Ahanya N	x	x	x	x	x	x	x	x	x	x
3	Devanandan S	x	x	x	x	x	x	a	x	x	x
4	Hima P.P	x	x	x	x	x	x	x	x	x	x
5	Najiya K	x	x	x	x	x	x	x	x	x	x
6	Nihara Pavithran	x	x	a	x	x	x	x	x	x	x
7	Sini K	x	x	x	x	x	x	x	x	x	x
8	Sreethi V	x	x	x	x	x	x	x	x	x	x
9	Sungandh Pradeep	x	x	x	x	x	x	x	x	x	x
10	Abhinanda E	x	x	x	x	x	a	x	x	x	x
11	Archa Ganadhana	x	x	x	x	x	x	x	x	x	x
12	Aswani C	x	x	x	x	x	x	x	x	x	x
13	Kripa Sureshramath	x	x	x	x	x	x	x	x	x	x
14	Neha A.M	x	x	x	x	x	x	x	x	x	x
15	Risha A.P	x	x	x	x	x	x	x	x	x	x
16	Sayanthi P.K	x	x	x	x	x	x	x	x	x	x
17	Gokul P.P	x	x	x	x	x	x	x	x	x	x
18	Anagha T.V	x	x	x	x	x	x	x	x	x	x
19	Nandana Dinesh E	x	x	a	x	x	x	x	x	x	x
20	Vyshnav K	x	x	x	x	x	x	x	x	x	x
21	Amal M	x	x	x	x	x	x	a	x	x	x
22	Arjun P.P	x	x	x	x	x	x	x	x	x	x
23	Athul P	x	x	x	x	x	x	x	x	x	x
24	Adheena T.M	x	x	x	x	x	x	x	x	x	x
25	Mangima Murali K	x	x	x	x	x	x	x	x	x	x
26	Nandana K.C	x	x	x	x	x	x	x	x	x	x
27	Sovani P	x	x	x	a	x	x	x	x	x	a
28	Tharaja M	x	x	x	x	x	x	x	x	x	x
29	Arshika	x	x	x	x	x	x	x	x	x	a
30	Arshika	x	x	x	x	x	x	x	x	x	x
31	Aswathi Prasanth	x	x	x	x	x	x	x	x	x	x
32	Keeathana K	x	x	x	x	x	x	x	x	x	x
33	Nandana A	x	x	x	x	x	x	x	x	x	x
34	Nandana K.V	x	x	x	x	x	x	x	x	x	x
35	Nandana Dileep	x	x	x	x	x	x	x	x	x	x
36	Arya N	x	x	x	x	a	x	x	x	x	x

ATTENDANCE REGISTER

Sl No	Name	15/10	21/10	23/10	4/11	7/11	14/11	21/11	28/11	4/12	7/12
37	Adhisha. K	x	x	x	x	x	x	x	x	x	x
38	Dhavana. B	x	x	x	x	x	x	x	x	x	x
39	Bhavya. N.K	x	x	x	x	x	x	x	x	x	x
40	Hamna Ummer. A.T	x	x	x	x	x	x	x	x	x	x
41	Nandana. N	x	x	x	x	x	x	x	x	x	x
42	Nandana. P	x	x	x	x	x	a	x	x	x	x
43	Nihara. M. A	x	x	x	x	x	x	x	x	x	x
44	Adhitya Rajewan	x	x	x	x	x	x	x	x	x	x
45	Anaswara. K	x	x	x	x	x	x	x	x	x	x
46	Aswani. V	x	x	a	x	x	x	x	x	x	x
47	Aysha Sheria	x	x	x	x	x	x	x	x	x	x
48	Fahmeeda. N	x	x	x	x	x	a	x	a	x	x
49	Gropika Hareesh	x	x	x	x	x	x	x	x	x	x
50	Keerthana. P.K	x	x	x	x	x	x	x	x	x	x
51	Navya. E	x	x	x	x	x	x	x	x	x	x
52	Neha. K	x	x	x	x	x	x	x	x	x	x
53	Nivedya. K	x	x	x	x	x	x	x	x	x	x
54	Rahil. K.T	a	x	x	x	x	x	x	x	x	x
55	Riya Pathima. B.M	x	x	x	x	x	x	x	x	x	x
56	Vivek. K.A	x	x	x	x	x	x	x	a	x	x
57	Nishru. N	x	x	x	x	x	x	x	x	x	x
58	Niyuktha. K.P	x	x	x	x	x	x	x	x	x	x
59	Syotherma. P.K	x	x	x	x	x	x	x	x	x	x
60	Harsha. A	x	x	x	x	a	x	x	x	a	x
61	Diya. A	x	x	x	x	x	x	x	x	x	x



  
**HEAD**  
**D.G. DEPARTMENT OF ECONOMICS**  
**SREE NARAYANA COLLEGE**  
**P.O. THOTTADA, KANNUR - 670007**



**Department of Hindi**  
**Sree Narayana College Kannur**  
**Certificate Course in Communicative Hindi (Non semester Certificate Course)**  
**2022-2023**  
**Admission started**

आपके अनुच्छेद टैक्स्ट



**DEPARTMENT OF HINDI**  
**SREE NARAYANA COLLEGE**  
**KANNUR**



**CERTIFICATE COURSE IN COMMUNICATIVE HINDI**  
**(NON - SEMESTER CERTIFICATE COURSE)**

**SCHEME OF EXAMINATION AND SYLLABUS**

Dr Rathika Pancharapoil Kottayi.

HoD, Hindi

SREE NARAYANA COLLEGE

CERTIFICATE COURSE IN COMMUNICATIVE HINDI

(Non–Semester)

(With effect from the Academic Year 2018)

Scheme of Examination and Syllabus

INTRODUCTION

**Hindi language**, member of the Indo-Aryan group within the Indo-Iranian branch of the Indo-European language family. It is the preferred official language of India, although much national business is also done in English and the other languages recognized in the Indian constitution. In India, Hindi is spoken as a first language by nearly 425 million people and as a second language by some 120 million more. Significant Hindi speech communities are also found in South Africa, Mauritius, Bangladesh, Yemen, and Uganda. Literary Hindi, written in the Devanagari script, has been strongly influenced by Sanskrit. Its standard form is based on the Khari Boli dialect, found to the north and east of Delhi. Braj Bhasha, which was an important literary medium from the 15th to the 19th century, is often treated as a dialect of Hindi, as are Awadhi, Bagheli, Bhojpuri, Bundeli, Chhattisgarhi, Garhwali, Haryanawi, Kanauji, Kumayuni, Magahi, and Marwari. However, these so-called dialects of Hindi are more accurately described as regional languages of the “Hindi zone” or “belt,” an area that approximates the region of northern India, south through the state of Madhya Pradesh. Literary Hindi, written in the Devanagari script, has been strongly influenced by Sanskrit. Its standard form is based on the Khari Boli dialect, found to the north and east of Delhi. Braj Bhasha, which was an important literary medium from the 15th to the 19th century, is often treated as a dialect of Hindi, as are Awadhi, Bagheli, Bhojpuri, Bundeli, Chattisgarhi, Garhwali, Haryanawi, Kanauji, Kumayuni, Magahi, and Marwari. However, these so-called dialects of Hindi are more accurately described as regional languages of the “Hindi zone” or “belt,” an area that approximates the region of northern India, south through the state of Madhya Pradesh.

**OBJECTIVES**

- Help the students to make Hindi language as communication level
- Importance and global acceptance of Hindi language.
- Make children to understand how to handle officially.
- Introducing the career opportunities in Hindi.

## **ELIGIBILITY CRITERIA**

Candidates for admission to certificate course in Communicative Hindi should possess a Higher Secondary School Education.

## **DURATION OF THE COURSE**

Six months Certificate Course in Communicative Hindi – non semester for 30 hrs duration.

## **SCHEME OF EXAMINATION**

Sl. No	Paper	Marks
1	Bolchaal ki Hindi	40
2	Internal Assesment	10
<b>Total</b>		<b>50</b>

## **SYLLABUS**

### **BOLCHAL KI HINDI**

**UNIT I: Dinom ke naam , Maheenom ke naam, Sabjiyon ke naam , Phalon ke naam, Phoolon ke naam,Sankhyayem.**

**UNIT II: Dainamdin Varthalap – Dhobhi ke sath varthalap, Darji ke sath varthalap, Sabjiwale ke sath varthalap,Machliwale ke Sath varthalap,Dukaandaar ke sath varthalaap, Doodhwale ke sath Varthalap.**

**UNIT III: Lokokthi aur Muhavre**

**Reference books:**

**1.Bolchal ki Hindi Aur Sanchar – Dr. Madhu Dhavan , Vani Prakashan ,New Delhi.**

**2.Bolchal ki Hindi – Susheela Gupta**



SREE NARAYANA  
COLLEGE KANNUR

*Department of Hindi*

# CERTIFICATE

OF COMPLETION

*proudly presented to*

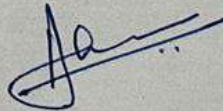
*Arunima K*

*for successfully completing the CERTIFICATE COURSE IN  
TRANSLATION HINDI in the year 2022-2023  
at SN college Kannur under Department of Hindi*



  
**PRINCIPAL**  
SREE NARAYANA COLLEGE  
KANNUR  
Principal



  
head of department  
**Dr. RATHIKA. P.K**  
**HOD**  
DEPARTMENT OF HINDI  
SREE NARAYANA COLLEGE  
THOTTADA, KANNUR



**Department of Microbiology**  
**Sree Narayana College, Kannur**  
**Re accredited by NAAC with A Grade**

# **Certificate Course in Production of Biofertilizer**



Impart knowledge on different types of Biofertilizers and their importance & to provide training on the production of biofertilizers.

## **Certificate Course on Production of Biofertilizers**

### **Course Objectives**

1. To impart knowledge on different types of Biofertilizers and their importance
2. To provide training on the production of biofertilizers

### **Learning Outcomes**

1. Ability to distinguish different types of biofertilizers and its applications in the field
2. Development of integrated approach for the application of fertilizers.

### **Duration of Course**

Eight weeks

### **Syllabus**

#### Module I

Introduction and history of biofertilizers, scope and importance of Biofertilizers.

#### Module II

Classifications of Biofertilizers : Azospirillum, Azotobacter, Bacillus, Pseudomonas, Rhizobium and Frankia; Cynobacterial biofertilizers- Anabaena, Nostoc, Hapalosiphon and fungal biofertilizers- AM mycorrhiza and ectomycorrhiza.

#### Module III

Production technology: Strain selection, sterilization, growth and fermentation, equipment, mass production of carrier based and liquid bio fertiizers. Quality control of bio fertilizers -.Applications of biofertilizers in the field.

# Awareness and Training on mushroom Cultivation.

on  
14 Feb 2023 at 10.30 am

Seminar Hall.

1. AIRIN SAGEEVAN	BSC Botany	<del>Airin</del>
2. Amal-k	BSC Botany	<del>Amal</del>
3. Athul Ray R	Bsc Botany	<del>Athul</del>
4. Ashok kumar	Bsc Botany	<del>Ashok</del>
5. Aayam/Surendran	Bsc Microbiology	<del>Aayam</del>
6. Anagha Kakkoti	Bsc Microbiology	<del>Anagha</del>
7. Anjana Mohan	Bsc Botany	<del>Anjana</del>
8. Jincy P	Bsc Botany	<del>Jincy</del>
9. Mayukha. k	Bsc. Microbiology	<del>Mayukha</del>
10. Aswathi suresh	Bsc. Microbiology	<del>Aswathi</del>
11. Nandana. cp	BSC. Microbiology	<del>Nandana</del>
12. Sudhina Biju	.BSC. Microbiology	<del>Sudhina</del>
13. Asika Anesh PV	Bsc. Microbiology	<del>Asika</del>
14. Arya sree. m	Bsc microbiology	<del>Arya</del>
15. Vyshnavi. V.K.	Bsc Microbiology.	<del>Vyshnavi</del>
16. Akshara Karshna. M.	Bsc Microbiology	<del>Akshara</del>
17. Viswanth Vinodan V	Bsc Microbiology	<del>Viswanth</del>
18. Anthona. mk	Bsc microbiology	<del>Anthona</del>
19. Avanthika. k.P	Bsc Microbiology	<del>Avanthika</del>
20. Mayoozha. K	Bsc Microbiology	<del>Mayoozha</del>
21. Theerthe Ranjith	Bsc Microbiology	<del>Theerthe</del>
22. SMA SASI	"	<del>SMA</del>
23. Navyasree. M	"	<del>Navya</del>
24. Sanika Rakesh	"	<del>Sanika</del>
25. Andra-k	"	<del>Andra</del>
26. Nandana-c	"	<del>Nandana</del>

27	Tadla Moidu	BSc Microbiology	
28	Snigdha S	BSc Microbiology	
29	Keerthana Pradeep	BSc Microbiology	
30	Devika C	B.Sc Microbiology	
31	Rasha Abdulla	B.Sc Microbiology	
32	Amylth Jay KV	B.Sc Microbiology	
33	Arash K	BSC Microbiology	
34	Nandana Pradeep	BSC Microbiology	
35	Amrutha vijayan	BSC Microbiology	
36	Adhithya K	BSC Microbiology	
37	Thejasree Sajeev	BSC Microbiology	
38	Anagha S	BSC Microbiology	
39	Deulki Renjith Babu	BSC Microbiology	
40	Abhinav P	BSC Microbiology	
41	Abhay C	BSC Microbiology	
42	Abhay T	BSC Microbiology	
43	LIVA GATHRA	"	
44	Nandana Rajeev	"	
45	Anagha PV	"	
46	NANDANA K.L.	"	
47	RENESHA P	"	
48	Grothika Krishna	"	
49	Dr. M.P. Shanuj	(Secretary, Staff Council)	
50	Dr. K P PRASANTH	IQAC Coordinator	
51	Ajmes E. R.	Deputy Director of Agriculture CHU	
52	Ashwadhini A Rao	BSC Micro	
53	Ayyal Rf	"	
54	Anagha C	"	
55	Nanditha V Gopal	"	
56	Swedha MP	"	
57	Shamli CM	"	
58	Mariyam Ansari	"	
59	Keerthana Subhash	"	
60	Saranya Basu	"	
61	Hemant Babu	"	
61	Devash R S	Commerce	

62	BINDU RAMESH	Kudumbasree	
63	Revathi . P	Kudumbasree	
64	Dr. Bindu . v . v .	Faculty, Dept of Economics	
65	Devika . K	Bsc micro	
66	Nithula c . K	"	
67	VISHAK T	BSC . BT , SSITS	
68	Anikettha Sudheer	Bsc BT , SSITS	
69	Devika . P . P	BSC . BT , SSITS	
70	K - Sulfath	BSC BT , SSITS	
71	Sali Marsal	Ushass Kudumbasree	
72	Sreeja P . V	"	
73	Akshaya Shameen	Bsc Microbiology	
74	Tranga Ganesh	"	
75	Swarna A	"	
76	Geopika Manoj	"	
77	Anamika . k	"	
78	Aiswarya . R	"	
79	Geethu . lakshmi . te	"	
80	Sajina . v . c .	Zain Kudumbasree	
81	Sujaraja	Zain "	
82	<del>.....</del>		
83	Silpa Kumbikaran	Dept. of Chemistry	
84	Pushpanjali . C . S	Dept of commerce	
85	Kadeeja Isha Sulaiman	Bsc Microbiology	
86	Hiba Noushad . A . P	"	
87	Arya . K . V	"	
88	Neha Putnalath	"	
89	Tanvi S . Jayan	Bsc Microbiology	
90	Fathima Shirin	Bsc. Microbiology	
91	Arya Karunakar . an	Bsc. Microbiology	
92	Anushree A	Bsc. Microbiology	
93	Shahana Sherin Faisal	Bsc Microbiology	

**SREE NARAYANA COLLEGE ,KANNUR**  
**PG DEPARTMENT OF PHYSICS**  
**CERTIFICATE COURSE 2022-23**  
**SYLLABUS**

**Course Code** : SNPHY22SEC  
**Title of the Course** : LED bulb repairing technician  
**Nature of the Course** : Skill Enhancement Course (SEC)  
**Duration** : 30 Hrs.

**COURSE OBJECTIVES :**

- The course is designed to develop an entrepreneurial mindset among the students. This course involves the practical application of Electronics .
- To boost the skill development credibility and improve the ability of the students in repairing electrical components used in day-to-day life .
- To provide opportunity for realizing one’s potential through practical experiences .

UNITS	CONTENTS	L	T
<b>1</b>  <b>(10 HRS)</b>	<b>Basics of Electronics</b> <ul style="list-style-type: none"> <li>• Differentiate between various electronic and electrical components, materials and their specific properties, types and usages .</li> <li>• Calculate resistance by identifying the colour codes .</li> <li>• Define capacitance of a capacitor.</li> <li>• List and define the parameters of an electric circuit such as voltage, current and resistance .</li> <li>• Ohm’s law and implement it for calculations .</li> <li>• Understand the functionality of coil, winding of coil, diode and its uses, Transistor, Biasing of transistor.</li> <li>• Current amplification circuit, Designing of filter.</li> </ul>	<b>08</b>	<b>02</b>

	<ul style="list-style-type: none"> <li>• Understand the functionality of multi- meter, Explain different modes of testing in multi-meter</li> <li>• Differentiate between alternating current (AC) and direct current (DC) .</li> <li>• Handling of regulated power supply, precautions dealing with AC &amp; DC current.</li> </ul>		
<p style="text-align: center;"><b>2</b> <b>(10 HRS)</b></p>	<ul style="list-style-type: none"> <li>• Soldering of semiconductor devices,</li> <li>• Manual screen printer,</li> <li>• Soldering Iron, Soldering and Desoldering , Identify the types of solder and flux List the function of the different components of a soldering iron</li> <li>• AC to DC regulated power supply, AC to AC regulated power supply,</li> <li>• LED Driver Tester.</li> </ul>	<b>08</b>	<b>02</b>
<p style="text-align: center;"><b>3</b> <b>Basics of LED</b> <b>(10 HRS)</b></p>	<ul style="list-style-type: none"> <li>• Principal of illumination from a LED, properties of LED,</li> <li>• various blocks of a LED</li> <li>• Identify the basics of power electronics and its usages in lighting controls or LED power supplies and LED drivers</li> <li>• Identify the selection criteria of a suitable tip</li> <li>• LED working principle</li> <li>• List the parameters which affect the overall life of LED.</li> <li>• Categorise LED into its various types such as indicator, illuminator and Chip on Board (COB)</li> <li>• List the advantages of LED light products</li> <li>• List the basic parameters of LEDs and their importance in an LED product</li> <li>• Distinguish between the different types of power sources used in LED lighting and their characteristics</li> </ul>	<b>08</b>	<b>02</b>

### **PRACTICALS:**

- Demonstrate the process of soldering
- Demonstrate LED working principle
- Demonstrate basic knowledge of assembly of products such as spot light, LED bulb and LED tube light
- Demonstrate basic knowledge of product assembly
- Demonstrate driver selection according to the LED
- Check the LED light engine with DC supply as per the voltage / current requirements of the product
- Check the supply unit with AC supply / multimeter to find out the voltage /current output in case LED light engine is not found defective
- Check voltage / current output at different sections of the supply unit in case of no voltage / current
- Check the components with multimeter individually of the section where voltage output is found to be less than desired / no output
- Perform repair / replacement of LED

### **MODES OF ASSESSMENT:**

- **Written Test**
- **Peer Teaching and Discussion**
- **Assembling of LED bulb**

### **LEARNER OUTCOMES:**

**After the completion of this course, the learner will be able to:**

- **Students will be able to assemble and repair an LED bulb on their own.**
- **course is bring about inclusive growth and enable the youth who have technical education to train and prepare to work in LED Lighting .**

**READING LIST:**

- Principles of electronics V K Metha.
- Ron Lenk – Carol Lenk ( 2021) , *Practical Lighting Design with LEDs*, John Wiley and Sons Ltd.
- Gilbert held ( 2019) , *Introduction to light emitting diode technology and application*, Taylor and Francis

**SREE NARAYANA COLLEGE ,KANNUR**  
**PG DEPARTMENT OF PHYSICS**  
**NOTICE**

**Date 13-12-2022**

All students of BSc fourth semester are hereby informed that the department is organizing a certificate course on **BASICS ELECTRONICS &LED TECHNICIAN** from 03/01/2023. Interested students can register for the course. For more details, contact the course coordinator **MANOOB V J**

**HOD**  
Department of Physics

**Contact. Mr. MANOOB V J**  
**ASSISTANT PROFESSOR**  
**DEPARTMENT OF PHYSICS**  
**9447366797**

**SREE NARAYANA COLLEGE ,KANNUR**  
**PG DEPARTMENT OF PHYSICS**  
**CERTIFICATE COURS 2022-23**  
**TIME TABLE**

**Course Code** : SNPHY22SEC  
**Title of the Course** : LED bulb repairing technician  
**Nature of the Course** : Skill Enhancement Course (SEC)  
**Duration** : 30 Hrs.

Time	Mon	Tue	Wed	Thu	Fri
8.30-9.30	SR+MVJ	KKS	VVK	BTK+KKS	MVJ+RM
3.30-4.30	BTK	RTNK+RM	RK+VVK	MVJ	RK+RTNK

VVK- Mr.VIPIN V K  
SR- Ms.SRESHMA RAJAN  
RK- Ms.REMYA KRISHNAN  
BTK- Ms.BIVITHA T K  
RTNK- Ms RASHIDA TNK  
KKS- Ms.KALA KS  
RM- Ms REMYA M  
MVJ- Mr.MANOOB VJ

**SREE NARAYANA COLLEGE ,KANNUR**  
**PG DEPARTMENT OF PHYSICS**  
**CERTIFICATE COURS 2022-23**  
**LIST OF ENROLLED STUDENTS**

**Course Code** : SNPHY22SEC  
**Title of the Course** : LED bulb repairing technician  
**Nature of the Course** : Skill Enhancement Course (SEC)  
**Duration** : 30 Hrs.

No.	NAME	
1	ABHIJITH K	
2	ABISHEK K	
3	ADISH K	
4	ADITHYA PRAKASAN	
5	AISWARYA SANTHOSH E K	
6	AJAL N	
7	AKSHARA K	
8	AKSHAY ASHOK	
9	ALNA AJITH	
10	AMBILI KOLAKKODAN	
11	ANUSHA RAMESHAN	
12	ANUSHITHA BABU P	

13	ANUSREE K T	
14	APARNA K	
15	ASHWANTH K	
16	ASUTHOSH A	
17	ATHIRA K	
18	DARSHAN E P	
19	DIYA SAJEEVAN	
20	GAUTHAM KRISHNA P	
21	GAYATHRI V N	
22	GOKUL P V	
23	GOPIKA SUNIL	
24	HRIDYA RAMATH	
25	JISHNU JAYESH	
26	KELVIN SUDHEER	
27	NIBIL ANILKUMAR	
28	NIMA SURESH M P	
29	PARTHIV P V	
30	RINI RAJ K	
31	RIYA RAGESH	
32	SANDRA P	
33	SANGEETH BALAKRISHNAN	
34	SARGA K C	
35	SAYOOJ K	
36	VINAYAK T K	
37	VYSHNA C V	
38	YADHUKRISHNAN K	

**SREE NARAYANA COLLEGE ,KANNUR**  
**PG DEPARTMENT OF PHYSICS**  
**CERTIFICATE COURSE**  
**SNPHY22SEC : LED bulb repairing technician**

**Time : 2hrs**

**Max. Marks: 50**

**Section A: Short Answer Questions (Answer all Questions) (2 Marks Each)**

1. Differentiate between a diode and a transistor in terms of functionality.
2. Define capacitance and its significance in an electric circuit.
3. Explain Ohm's Law and provide its mathematical expression.
4. What are the primary differences between alternating current (AC) and direct current (DC)?
5. List the parameters of an electric circuit and briefly define each.

**Section B: Long Answer Questions ( Answer any 10 Questions) (4 Marks Each)**

1. Describe the process of calculating resistance using color codes. Provide an example.
2. Explain the working principle of a coil and its applications in electrical circuits.
3. What is current amplification? Describe a basic current amplification circuit.
4. Discuss the functionality and different modes of testing of a multimeter.
5. Explain the soldering and desoldering process of semiconductor devices, including safety precautions.
6. Describe the various types of solder and flux and their functions in soldering.
7. Explain the design and purpose of an AC to DC regulated power supply.
8. What are the advantages of using LED lighting products over traditional lighting?
9. Identify and describe the different blocks of an LED and their functions.
10. List the key parameters that affect the overall life of an LED and explain their importance.
11. Distinguish between different types of power sources used in LED lighting and their characteristics.
12. What is the principle of illumination from an LED? Discuss its significance in modern lighting.
13. Describe the criteria for selecting a suitable tip for soldering applications.
14. What is the importance of biasing in transistor operation?
15. Explain the concept of breakdown of diode







**SREE NARAYANA  
COLLEGE KANNUR**  
AFFILIATED TO KANNUR UNIVERSITY

# CERTIFICATE

OF COMPLETION

This is to certify that

has successfully completed the certificate course in  
**BASIC ELERONICS&LED TECHNICIAN** conducted by Post Graduate  
Department of physics and Internal Quality Assuarance Cell,SN college ,Kannur  
held in January 2023

HOD  
PHYSICS

Coordinator

Principal  
S N College



**SREE NARAYANA COLLEGE KANNUR**  
Affiliated to Kannur University

Organised by Department of Zoology  
**CERTIFICATE COURSE-2022-23**

# **BASIC BIOLOGICAL TECHNIQUES**

**4 JUNE, 2022 |**

**COURSE COORDINATOR  
DR. NITHINYA R**



**CONTACT US**



**9497251867**

**SREE NARAYANA COLLEGE KANNUR**

**DEPARTMENT OF ZOOLOGY**

**SYLLABUS**

**CERTIFICATE COURSE 2022-23**

**BASIC BIOLOGICAL TECHNIQUES**

**Introduction to Biological Techniques (6 hours)**

**Lecture (2 hours):**

- Overview of biological techniques and their importance
- Safety in the laboratory

**Lab Session (4 hours):**

- Introduction to lab equipment
- Basic lab skills: pipetting, measuring, and using microscopes

**Molecular Biology Techniques (6 hours)**

**Lecture (2 hours):**

- DNA/RNA structure and function
- Techniques: Extraction and quantification

**Lab Session (4 hours):**

- DNA extraction from cells
- Gel electrophoresis: Setup and analysis

**Protein Techniques (6 hours)**

**Lecture (2 hours):**

- Basics of proteins: structure and function
- Introduction to protein assays

**Lab Session (4 hours):**

- Protein extraction and quantification
- SDS-PAGE: Running and interpreting gels

## **Microbiological Techniques (6 hours)**

### **Lecture (2 hours):**

- Overview of microbiology and aseptic techniques
- Culture media and microbial growth

### **Lab Session (4 hours):**

- Aseptic techniques for bacterial culture
- Streak plating and identifying colonies

## **Advanced Techniques and Applications (6 hours)**

### **Lecture (2 hours):**

- Introduction to PCR and its applications
- Overview of basic sequencing techniques

### **Lab Session (4 hours):**

- Performing PCR and analyzing results
- Discussion on real-world applications of techniques

## **Review and Assessment (6 hours)**

### **Lecture (2 hours):**

- Review of key techniques learned
- Discussion of case studies

### **Assessment (4 hours):**

- Practical exam covering key techniques
- Written exam on theoretical knowledge

### **Evaluation:**

- Practical assessments (50%)
- Written exam (30%)
- Participation and attendance (20%)



**SREE NARAYANA COLLEGE, KANNUR**  
**DEPARTMENT OF ZOOLOGY**

<b>SI No</b>	<b>Register No</b>	<b>Name</b>
1	C2PSZL1001	<b>ALFIYA K RAJEESH</b>
2	C2PSZL1002	<b>AMRITHA P V</b>
3	C2PSZL1003	<b>AMRUTHA V</b>
4	C2PSZL1004	<b>ANGITHA ANILKUMAR</b>
5	C2PSZL1005	<b>ANILA M K</b>
6	C2PSZL1006	<b>ANJANA. V</b>
7	C2PSZL1007	<b>ANUSREE V K</b>
8	C2PSZL1008	<b>FATHIMATHUL ZUHARA M</b>
9	C2PSZL1009	<b>JUSAINA S K P</b>
10	C2PSZL1010	<b>NAJIYA T P</b>
11	C2PSZL1011	<b>NIMISHA M</b>
12	C2PSZL1012	<b>RAMITHA K</b>
13	C2PSZL1013	<b>SHYAMILY A</b>
14	C2PSZL1014	<b>SNEHA SAHADEVAN</b>
15	C2PSZL1015	<b>SOORYA M V</b>

<b>Sl No</b>	<b>Register No</b>	<b>Name</b>
16	SN21CZOR01	AMITH KRISHNA K
17	SN21CZOR02	E N ROHITH NATH
18	SN21CZOR03	MIDHUN K M
19	SN21CZOR04	ABHISRI M
20	SN21CZOR05	ANUSREE ANILKUMAR
21	SN21CZOR06	ATHIRA P
22	SN21CZOR07	ATHULYA P R
23	SN21CZOR08	AVANI PRASAD
24	SN21CZOR09	FIDA PARVEEN K P
25	SN21CZOR10	GOPIKA V
26	SN21CZOR11	RIDONA MUKUND
27	SN21CZOR12	SHILLA . K
28	SN21CZOR13	SHWETHA ASHOK
29	SN21CZOR14	SNIGDHA DAS P
30	SN21CZOR16	THEJA MANOJ
31	SN21CZOR17	VADHANYA GOPAL KRISHNA
32	SN21CZOR18	VISMAYA K P
33	SN21CZOR19	VISMAYA M
34	SN21CZOR20	DIYA P K
35	SN21CZOR21	K SONIYA
36	SN21CZOR22	MEGHNA M V
37	SN21CZOR23	NANDANA C
38	SN21CZOR24	NANDANA GEET K
39	SN21CZOR25	NANDHANA K
40	SN21CZOR26	NIPUNIYA GIREESH
41	SN21CZOR27	NITHYASREE P
42	SN21CZOR28	RITHIMA RAJ V V

# SREE NARAYANA COLLEGE KANNUR



POST GRADUATED DEPARTMENT OF ZOOLOGY

**CERTIFICATE COURSE 2022-23**

## BASIC BIOLOGICAL TECHNIQUES

has successfully completed certificate course on Aquaculture from 04/06/2022 to 20/06/2022. Organized by Post graduate and Research department of Zoology, Sree

Narayana college, kannur.

Principal



Head of the department

**SREE NARAYANA COLLEGE KANNUR**

**DEPARTMENT OF ZOOLOGY**

**REPORT ON CERTIFICATE COURSE**

**BASIC BIOLOGICAL TECHNIQUES**

**Organized by:** Department of Zoology, Sree Narayana College, Kannur

**Coordinator:** Ms. Nithinya R

**Total Enrolled Students:** 43

**Time:**04/06/2022

The Certificate Course in Basic Biological Techniques was conducted by the Department of Zoology at Sree Narayana College, Kannur. This course aimed to equip students with essential laboratory skills and knowledge in biological techniques critical for their academic and professional development in the field of biology.