



# 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

✉ [sncollegekannur@gmail.com](mailto:sncollegekannur@gmail.com) ☎ 0497 - 2731085

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



## 1.2 Academic Flexibility

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

**2021-22**



DEPARTMENT OF MANAGEMENT STUDIES  
INTERNAL QUALITY ASSURANCE CELL  
SREE NARAYANA COLLEGE KANNUR

Organizes

CERTIFICATE COURSE- 2022  
ON

# FINANCIAL PLANNING AND BUDGETING



Undergraduate students who are interested can register by collecting and completing the application form from the Department.

For More Details, Contact:  
Mr. SUMESH P C, HoD, Department of Management Studies

**CERTIFICATE COURSE BY DEPARTMENT OF MANAGEMENT STUDIES, SN COLLEGE, KANNUR**  
**FINANCIAL PLANNING AND BUDGETING**  
**JANUARY 4-20 2022**

SL.NO	ROLL NO	NAME	SIGN
1	901	ABHINAV M	
2	902	AISWARYA K	
3	903	AMITHA KRISHNAN	
4	904	ANAGHA C	
5	905	ANUSREE RAJAN	
6	906	ARSHA P	
7	907	ATHULYA UDAYAKUMAR	
8	908	AWWA	
9	909	FATHIMATH ZUHRA C	
10	910	FATHIMATH SAHLA A P	
11	911	HASNA C K	
12	912	RITHIKA	
13	913	JAYADEEP K T	
14	914	JOTHIKA N V	
15	915	KK FATHIMATHU NOUREEN	
16	916	KEERTHANA K	
17	917	KEERTHANA VINOD	
18	918	NAVYA VENU	
19	919	NAYANA T V	
20	920	PRANAV P	
21	921	RAHANA P P	
22	922	SAFREENA T	
23	923	SANGEETH SRAVAN	
24	924	SAYUJ	
25	925	SHANA C P	
26	926	SREELAKSHMI JAYADEV	
27	927	UMAIBA M K	
28	928	VISHNU C T	
29	929	ABHAY T K	
30	930	AKHIL SATHYAN	
31	931	AKHILA	
32	932	AMEYA P ARUN	
33	933	ANJITHA K T	
34	934	ANUDEEP P P	
35	935	ANUSREE K C	
36	936	ARPITHA P	
37	937	ASWANTH P P	

38	938	ATHULYA ANILKUMAR	<u>Athulya</u>
39	939	AYSHA SHERIN	<u>Aysha</u>
40	940	BAGHA KUNHIMON	<u>Bagha</u>
41	941	DEVANK N T	<u>Devank</u>
42	942	FATHIMA V P P	<u>Fathima</u>
43	943	HARITHA P	<u>Haritha</u>
44	944	HEMASREE C	<u>Hemasree</u>
45	945	MOHD ASGAR P	<u>Mohd Asgar</u>
46	946	MOHD SHANIF K	<u>Mohd Shanif</u>
47	947	NAVANEETH T	<u>Navaneeth</u>
48	948	NAZNIN M T P	<u>Naznin</u>
49	949	NEHA K	<u>Neha</u>
50	950	NIDHA K T	<u>Nidha</u>
51	951	NIDHADAS A	<u>Nidhad</u>
52	952	PRANAV N V	<u>Pranav</u>
53	953	SANA K	<u>Sana</u>
54	954	SANGEERTH P P	<u>Sangeerth</u>
55	955	SHANA MUNEEER	<u>Shana</u>



# Sree Narayana College, Kannur

NAAC Re-accredited with A Grade, CGPA: 3.04

## CERTIFICATE OF COMPLETION

This certificate is proudly presented to

<<NAME>>



FOR SUCCESSFULLY COMPLETING THE CERTIFICATE COURSE ON '**FINANCIAL  
PLANNING AND BUDGETING**' HELD BY THE DEPARTMENT OF MANAGEMENT  
STUDIES IN ASSOCIATION WITH IQAC, SREE NARAYANA COLLEGE,  
FROM 4 JANUARY 2022 - 20 JANUARY 2022.

**Mr. SUMESH P. C**  
Head of the Department

**Mrs. SAMINA SATHYANATH**  
Course Coordinator

**Dr. AJAYAKUMAR K**  
Principal



**SREE NARAYANA COLLEGE, KANNUR**

**DEPARTMENT OF BOTANY  
OFFERS CERTIFICATE COURSE ON:  
SUSTAINABLE AGRICULTURE AND  
ENVIRONMENTAL MANAGEMENT**

**Environmental sustainability in agriculture is the practice of farming in a way that protects the environment and natural resources, while still meeting the needs of people.**

**Eligibility: Plus Two with Science  
Period of Course: Aug. 16 to Nov. 13, 2021**

**For more details contact: Dr. Jeeshna M. V. Ph: 97442 62981**

**DEPARTMENT OF BOTANY**  
**CERTIFICATE COURSE: 2021-2022**  
**SUSTAINABLE AGRICULTURE AND ENVIRONMENTAL MANAGEMENT**  
**SYLLABUS**

**Course Duration: 30 Hours**

**Module I: Fundamentals of Sustainable Agriculture (6 hours)**

Introduction to sustainable agriculture: Definition, principles, and goals, Historical context of agriculture: Traditional farming practices and their impact' Ecological footprint of agriculture: Resource consumption and environmental implications, Sustainable agriculture practices: Organic farming, permaculture, agroforestry, and integrated pest management

**Module II: Soil Health and Nutrient Management (7 hours)**

Soil as a living ecosystem: Composition, structure, and functions, Soil degradation and erosion: Causes and consequences, Soil conservation techniques: Contour farming, cover cropping, no-till agriculture, Nutrient cycling and management: Organic fertilizers, compost, and nutrient-efficient farming

**PRACTICALS**

- Soil Health Analysis and Testing: Collecting soil samples from different locations on a farm or garden. Testing soil pH, organic matter content, nutrient levels (N, P, K), and texture. Analyzing the test results to determine appropriate soil amendments and fertilization strategies. Discussing the importance of regular soil testing for maintaining soil health and crop productivity.
- Compost Making and Application: Setting up a compost pile or bin using various organic materials (food scraps, yard waste, leaves). Applying compost to garden beds or fields to improve soil structure, water-holding capacity, and nutrient availability.

**Module III: Water Resources Management in Agriculture (7 hours)**

Water scarcity and agricultural water use: Global challenges and solutions, Water quality and irrigation practices: Drip irrigation, sprinkler irrigation, and flood irrigation, Water harvesting and conservation: Rainwater harvesting, watershed management, Water pollution and remediation: Agricultural runoff and pollution control measures

**Module IV: Biodiversity and Agricultural Ecosystems (7 hours)**

Biodiversity in agriculture: Importance of genetic diversity and ecosystem services, Agrobiodiversity and crop rotation: Benefits of crop diversity and rotation, Pollinators and their role in agriculture: Beekeeping, habitat creation, and pollinator conservation, Integrated pest management (IPM): Biological control, cultural control, and chemical control

### **PRACTICALS**

- Integrated Pest Management (IPM) Demonstration: Identifying common pests and their damage symptoms in a field or garden.

### **Module V: Climate Change and Agricultural Resilience**

**(3 hours)**

Climate change impacts on agriculture: Rising temperatures, extreme weather events, and soil moisture changes, Adaptation strategies for climate change: Drought-tolerant crops, heat-resistant varieties, and climate-smart agriculture.

### **References**

- Plant Physiology by Taiz, L., & Zeiger, E. (2017)
- Essentials of Plant Physiology by Lincoln Taiz, Eduardo Zeiger
- Botany: A Short Course by Peter Raven, Ray F. Evert, Susan Eichhorn
- The Plant Diversity of the World by Peter H. Raven, Ray F. Evert, Susan Eichhorn
- Ecology: From Individuals to Ecosystems by Michael Begon, John L. Harper, Colin R. Townsend
- Horticulture: A Practical Guide by David Longman
- Plant Biotechnology by Glick, B. R., & Pasternak, J. (2008)
- Medicinal Plants: A Guide for Health Care Professionals by James A. Duke
- Aquatic Plants by Hutchinson, G. E. (1975)
- Bryophytes by Schofield, W. B. (1985)
- The Fungi by Alexopoulos, C. J., Mims, C. W., & Blackwell, M. (1996)

**SREE NARAYANA COLLEGE, KANNUR**  
**DEPARTMENT OF BOTANY**  
**CERTIFICATE COURSE: SUSTAINABLE AGRICULTURE AND ENVIRONMENTAL MANAGEMENT**  
**COURSE PERIOD: 2021-22**  
**STUDENTS ENROLLED**

Sl.	NAME OF THE STUDENTS	REG. NO.	SIGNATURE
1	ARUNIMA RAVEENRAN	SN19CBOR03	
2	ASHIKA T	SN19CBOR04	
3	ASHNA SUDHAKARAN	SN19CBOR05	
4	DHRISHYA M	SN19CBOR08	
5	JNANA PRIYA	SN19CBOR10	
6	SAYOOJYA K P	SN19CBOR14	
7	ANASWAR PRASANNAN	SN19CBOR19	
8	ALEENA RAMESH	SN19CBOR23	
9	GEETHU M	SN19CBOR28	
10	MEGHA M S	SN19CBOR30	
11	SAYOOJYA SAJEEVAN	SN19CBOR31	
12	AMBILI M	SN20CBOR05	
13	ANASWARA SATHYAN	SN20CBOR08	
14	JINCY P	SN20CBOR14	
15	ARCHA M	SN20CBOR09	
16	ARUNIMA M	SN20CBOR10	
17	KAJAL SAJEEVAN	SN20CBOR15	
18	NANDANA P R	SN20CBOR16	
19	NAVANEETHA M K	SN20CBOR17	
20	SREELAKSHMI P	SN20CBOR19	
21	ANAMIKA P	SN20CBOR26	
22	NEHA P CHANDRAN	SN20CBOR30	
23	ABHINA P	SN20CZOR04	
24	ABHIRAMI B M	SN20CZOR05	
25	ARYASREE K	SN20CZOR09	
26	DEVIKA S	SN20CZOR12	
27	O PUNNYA	SN20CZOR14	
28	POOJA K	SN20CZOR15	
29	ANJALI K	SN20CZOR20	
30	GOPIKA E P	SN20CZOR24	
31	MANJIMA C S	SN20CZOR26	
32	MRIDHULASREE M P	SN20CZOR27	
33	SHALINIKRISHNA P P	SN20CZOR30	

16/08/2021

HOD, Department of Botany


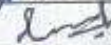
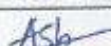




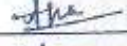





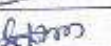















SREE NARAYANA COLLEGE, KANNUR

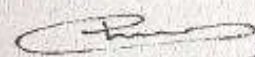
DEPARTMENT OF BOTANY

CERTIFICATE COURSE: SUSTAINABLE AGRICULTURE AND ENVIRONMENTAL MANAGEMENT

COURSE PERIOD: 2021-22

COURSE COMPLETED STUDENTS

Sl.	NAME OF THE STUDENTS	REG. NO.	SIGNATURE
1	ARUNIMA RAVEENRAN	SN19CBOR03	
2	ASHIKA T	SN19CBOR04	
3	ASHNA SUDHAKARAN	SN19CBOR05	
4	DHRISHYA M	SN19CBOR08	
5	JNANA PRIYA	SN19CBOR10	
6	SAYOOJYA K P	SN19CBOR14	
7	ANASWAR PRASANNAN	SN19CBOR19	
8	ALEENA RAMESH	SN19CBOR23	
9	MEGHA M S	SN19CBOR30	
10	SAYOOJYA SAJEEVAN	SN19CBOR31	
11	AMBILI M	SN20CBOR05	
12	JINCY P	SN20CBOR14	
13	ARCHA M	SN20CBOR09	
14	ARUNIMA M	SN20CBOR10	
15	KAJAL SAJEEVAN	SN20CBOR15	
16	NANDANA P R	SN20CBOR16	
17	NAVANEETHA M K	SN20CBOR17	
18	SREELAKSHMI P	SN20CBOR19	
19	NEHA P CHANDRAN	SN20CBOR30	
20	ABHINA P	SN20CZOR04	
21	ABHIRAMI B M	SN20CZOR05	
22	ARYASREE K	SN20CZOR09	
23	DEVIKA S	SN20CZOR12	
24	O PUNNYA	SN20CZOR14	
25	POOJA K	SN20CZOR15	
26	GOPIKA E P	SN20CZOR24	
27	MANJIMA C S	SN20CZOR26	
28	MRIDHULASREE M P	SN20CZOR27	
29	SHALINIKRISHNA P P	SN20CZOR30	



06/12/2020

HOD, Department of Botany



**SREE NARAYANA COLLEGE, KANNUR**

**CERTIFICATE  
OF COMPLETION**

This is to certify that

**MS. ASHNA SUDHAKARAN**

has completed the Certificate Course on 'Sustainable Agriculture and Environmental Management', conducted by the Department of Botany, Sree Narayana College, Kannur, during the year 2021-22.

Dr. Prasanth K. P.,  
HOD, Department of Botany

January 14, 2022.



Sree Narayana college , Kannur

NACC Re- Accredited with A Grade, CGPA : 3.04

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE 2021-22

## Preparation and Properties of Alcohol based Hand Sanitizers



▪ Course coordinator

Dr. Anitha P K  
Asst. Professor & HOD  
Dept. Of chemistry

Register now



SREE NARAYANA COLLEGE, KANNUR

PG AND RESEARCH DEPARTMENT OF CHEMISTRY

Notice

Date : 05/01/2022

All students of B.Sc and MSc Chemistry are here by informed that Department is organizing a ' **Certificate Course on Preparation and Properties of Alcohol based Hand Sanitizers** ' from Monday 10<sup>th</sup> January 2022. The interested students can register for the course. For more details contact course co-ordinator Dr. Anitha P K

HOD

Department of Chemistry

Contact : Dr. Anitha P K  
Assistant Professor & HOD of Chemistry  
Mob :9495993854



SREE NARAYANA COLLEGE, KANNUR

PG AND RESEARCH DEPARTMENT OF CHEMISTRY

Certificate Course 2021- 22

## Preparation and Properties of Alcohol Based Hand Sanitizers

Course Code : 21CH – PABHS

Duration : 25 hrs

Coordinator : Dr. Anitha P K

### Learning Outcomes

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

- *Describe the importance and types of hand sanitizers*
- *Familiarize the components and production of sanitizers*
- *Identify the regulatory frameworks and guidelines governing hand sanitizer production*
- *Explain chemical composition and physical properties of alcohol based hand sanitizers.*

### COURSE SYLLABUS

#### Unit 1: Introduction to Hand Sanitizers(3hrs)

Definition and importance of hand sanitizers, History and evolution of hand sanitizers, types of Sanitizers ( alcohol bases , non alcohol based )

#### Unit 2 : sanitizers(8hrs)

Composition of sanitizers,Physical properties, microbial efficacy,stability and shelf life, function of ethanol and of isopropyl alcohol in sanitizers, hydrogen peroxide, Glycerol and Water. Method of preparation sanitizers and hand rub (Laboratory and industrial) Production and storage facilities.additives gelling agents, Colorants, fragrance etc. WHO-recommended formulations of Sanitizers,

#### Unit 3 : safety and regulatory considerations ( 4hrs)

Toxicology and hazard assessment, regulatory frameworks (FDA, EPA, WHO), Labelling and claims (antimicrobial, antibacterial), Good manufacturing practices.

**Practical Sessions (10hrs)**

Preparation of alcohol based hand sanitizer

**Evaluation pattern**

Type of questions and marks in the examination

	<b>Total questions</b>	<b>No. Of questions to be answered</b>	<b>Marks of each questions</b>	<b>Total marks</b>	<b>Practical</b>
Short answer	6	4	2	8	10
Short essay	4	2	3	6	
Essay	2	1	6	6	
				<b>20</b>	
					<b>Total 30</b>

**Eligibility for Certificate:** Students having a minimum mark of 15 (theory+ practical) is eligible for certificate

SREE NARAYANA COLLEGE, KANNUR

PG AND RESEARCH DEPARTMENT OF CHEMISTRY

Certificate Course 2021- 22

21CH –PABHS :Preparation and Properties of Alcohol Based Hand Sanitizers

Time table

Time	Monday	Tuesday	Wednesday	Thursday	Friday
Theory 8.45 – 9.45	PKA	VVP	JK	PKA	AN
Practical 3.30- 5.00	PKA+ AN	PKA+ VVP	PKA	PKA+ JK	PKA + KMJ

PKA – Dr. Anitha P K

AN - Mrs. Aparna N

JK – Dr. Jithesh K

KMJ – Dr. Jitha Kunhikrishnan M

VVP – Dr. Vinisha Valsaraj P

## SREE NARAYANA COLLEGE, KANNUR

## PG AND RESEARCH DEPARTMENT OF CHEMISTRY

Certificate Course 2021- 22

## 21CH –PABHS :Preparation and Properties of Alcohol Based Hand Sanitizers

## Student list

Sl No.	Reg no.	Name
1	CH21CC 01	Abhinav k
2	CH21CC 02	Akshaya V V
3	CH21CC 03	Anupriya M V
4	CH21CC 04	Anusree ameri
5	CH21CC 05	Ardrika T K
6	CH21CC 06	Arya Rajeev
7	CH21CC 07	Aswini K
8	CH21CC 08	Aswin Pramod
9	CH21CC 09	Depth P P
10	CH21CC 10	Fathimathu Noora Zubair
11	CH21CC 11	Gopika K
12	CH21CC 12	Gopika M
13	CH21CC 13	Jithin P
14	CH21CC 14	Keerthana K
15	CH21CC 15	Lijin Lakshmanan
16	CH21CC 16	Poornima Shaji
17	CH21CC 17	Sanusha K
18	CH21CC 18	Sayanth P P
19	CH21CC 19	Sudev C
20	CH21CC 20	Vipin K K
21	CH21CC 21	Abhinav A V
22	CH21CC 22	Abhiyuktha Pramod
23	CH21CC 23	Aditya A V
24	CH22CC 24	Adwaith Prakash
25	CH21CC 25	Alvin A C
26	CH21CC 26	Amal M
27	CH21CC 27	Anagha T P
28	CH21CC 28	Ananya Babu
29	CH21CC 29	Anusree K
30	CH21CC 30	Aswathi N
31	CH21CC 31	Gopika K
32	CH21CC 32	Haridev C
33	CH21CC 33	Kajal Ragesh

SREE NARAYANA COLLEGE, KANNUR

PG AND RESEARCH DEPARTMENT OF CHEMISTRY

34	CH21CC 34	Lavanya K
35	CH21CC 35	Rishikesh V C
36	CH21CC 36	Sayana Krishnan P P
37	CH21CC 37	Shalima C K
38	CH21CC 38	Sneha Saniya Sreenivasan m
39	CH21CC 39	Sreenanda Mavila
40	CH21CC 40	Aswini K
41	CH21CC 41	Anagha P K
42	CH21CC 42	Sneha P
43	CH21CC 43	Soonam O
44	CH21CC 44	Naziya T V
45	CH21CC 45	Avani S
46	CH21CC 46	Akhil k
47	CH21CC 47	Sreejish P
48	CH21CC 48	Vaishnav S
49	CH21CC 49	Medha Prakash
50	CH21CC 50	Sneha o



21CH –PABHS :Preparation and Properties of Alcohol Based Hand Sanitizers

Time : 1.5 hrs

Marks : 20

**Section A**

( Answer any four questions. Each question carries 2 mark)

- 1.Which is the regulatory agency responsible foroverseeing the sanitizer production in US
- 2.What is the purpose of adding glycols to hand sanitizers.
- 3.explain the importance of pH control in hand sanitizer production.
- 4.List two common additives used in hand sanitizers
5. Give a brief discription of non alcohol based sanitizers
6. What do you under satand by good manufacturing practices'

(2x 4 = 8)

**Section B**

( Answer any two questions. Each question carries 3 mark)

7. Write a note on production and storage of sanitizers
- 8.Wha is the WHO recommended formulation of sanitizers
9. Explain the history and evalution of hand sanitizers
- 10.What are the conditions to be noted while labelling sanitizers.

(3 X2= 6)

**Section C**

( Answer any one questions. Each question carries 6 mark)

- 11.Discuss the advantages and disadvantages of usingalcohol based hand sanitizers
- 12.Discribe the manufacturing process of alcohol based hand sanitizers, including quality control

## SREE NARAYANA COLLEGE, KANNUR

## PG AND RESEARCH DEPARTMENT OF CHEMISTRY

## 21CH –PABHS :Preparation and Properties of Alcohol Based Hand Sanitizers

## Mark List

Sl No.	Reg no.	Name	Theory 20	Practical 10	Total 30
1	CH21CC 01	Abhinav K	2	10	12
2	CH21CC 02	Akshaya V V	20	10	30
3	CH21CC 03	Anupriya M V	9	10	19
4	CH21CC 04	Anusree ameri	20	10	30
5	CH21CC 05	Ardrika T K	20	10	30
6	CH21CC 06	Arya Rajeev	20	10	30
7	CH21CC 07	Aswini K	17	10	27
8	CH21CC 08	Aswin Pramod	14	10	24
9	CH21CC 09	Deepth P P	20	10	30
10	CH21CC 10	Fathimathu Noora Zubair	20	10	30
11	CH21CC 11	Gopika K	18	10	28
12	CH21CC 12	Gopika M	12	10	22
13	CH21CC 13	Jithin P	20	10	30
14	CH21CC 14	Keerthana K	8	10	18
15	CH21CC 15	Lijin Lakshmanan	11	10	21
16	CH21CC 16	Poornima Shaji	12	10	22
17	CH21CC 17	Sanusha K	10	10	20
18	CH21CC 18	Sayanth P P	15	10	25
19	CH21CC 19	Sudev C	16	10	26
20	CH21CC 20	Vipin K K	20	10	30
21	CH21CC 21	Abhinav A V	13	10	23
22	CH21CC 22	Abhiyuktha Pramod	8	10	18
23	CH21CC 23	Aditya A V	15	10	25
24	CH22CC 24	Adwaith Prakash	20	10	30
25	CH21CC 25	Alvin A C	14	10	24
26	CH21CC 26	Amal M	17	10	27
27	CH21CC 27	Anagha T P	12	10	22
28	CH21CC 28	Ananya Babu	20	10	30
29	CH21CC 29	Anusree K	20	10	30
30	CH21CC 30	Aswathi N	20	10	30
31	CH21CC 31	Gopika K	18	10	28
32	CH21CC 32	Haridev C	19	10	29
33	CH21CC 33	Kajal Ragesh	19	10	29
34	CH21CC 34	Lavanya K	7	10	17
35	CH21CC 35	Rishikesh V C	6	10	16

SREE NARAYANA COLLEGE, KANNUR

36	CH21CC 36	Sayana Krishnan P P	9	10	19
37	CH21CC 37	Shalima C K	11	10	21
38	CH21CC 38	Sneha Saniya Sreenivasan m	7	10	17
39	CH21CC 39	Sreenanda Mavila	19	10	29
40	CH21CC 40	Aswini K	20	10	30
41	CH21CC 41	Anagha P K	20	10	30
42	CH21CC 42	Sneha P	16	10	26
43	CH21CC 43	Soonam O	20	10	30
44	CH21CC 44	Naziya T V	20	10	30
45	CH21CC 45	Avani S	20	10	30
46	CH21CC 46	Akhil k	10	10	20
47	CH21CC 47	Sreejish P	18	10	28
48	CH21CC 48	Vaishnav S	17	10	27
49	CH21CC 49	Medha Prakash	20	10	30
50	CH21CC 50	Sneha o	19	10	29

21CH –PABHS :Preparation and Properties of Alcohol Based Hand Sanitizers

Report

Conducted certificate Course in association with IQAC on the topic **Preparation and Properties of Alcohol Based Hand Sanitizers** from 10.01.2022 to 31.01.2022. 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 Preparation and properties of sanitizers. Participants engaged in hands-on practical sessions, preparing and testing alcohol based hand sanitizers. Dr. Anitha P K was the coordinator of the programme.





**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**

**ONLINE CERTIFICATE COURSE**  
**SOCIAL  
MEDIA  
MARKETING**

Organized by :

**PG AND RESEARCH DEPARTMENT OF COMMERCE  
and  
INTERNAL QUALITY ASSURANCE CELL**

**COURSE DURATION:  
30 HOURS  
LIMITED SEATS**

**FOR MORE DETAILS,  
CONTACT:  
DR. AMUTHA R, HOD AND  
COURSE COORDINATOR**



Syllabus for the Course  
**SOCIAL MEDIA MARKETING**

**Course Duration:** 30 Hours

**Modules:** 3

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**Module 1: Introduction to Social Media Marketing (10 Hours)**

**1.1 Overview of Social Media Marketing**

- Definition and Importance of Social Media Marketing
- Evolution of Social Media Platforms
- Role of Social Media in Digital Marketing Strategies

**1.2 Understanding Social Media Platforms**

- Major Social Media Platforms: Facebook, Instagram, Twitter, LinkedIn, YouTube, TikTok, etc.
- Platform-Specific Strategies and Audience Demographics
- Social Media Algorithms and How They Work

**1.3 Creating a Social Media Strategy**

- Setting Goals and Objectives for Social Media Campaigns
- Identifying and Understanding Target Audience
- Developing Content Calendars and Posting Schedules

**1.4 Content Creation and Curation**

- Types of Content: Text, Images, Videos, Infographics, Stories, Reels
  - Best Practices for Content Creation on Different Platforms
  - Tools for Content Creation and Curation
- 

**Module 2: Advanced Social Media Marketing Techniques (10 Hours)**

**2.1 Paid Social Media Advertising**

- Overview of Paid Advertising Options on Major Platforms
- Setting Up and Managing Social Media Ad Campaigns
- Targeting and Retargeting Strategies
- Budgeting and Bidding Strategies for Social Media Ads

**2.2 Influencer Marketing**

- Identifying and Collaborating with Influencers
- Types of Influencer Campaigns: Sponsored Posts, Giveaways, Reviews
- Measuring the ROI of Influencer Marketing

**2.3 Social Media for Brand Building**

- Establishing Brand Voice and Identity on Social Media
- Building Brand Loyalty and Community Engagement
- Managing Brand Reputation and Handling Negative Feedback

**2.4 Legal and Ethical Considerations**

- Understanding Copyright and Intellectual Property Issues
  - Data Privacy and Compliance with Regulations (e.g., GDPR)
  - Ethical Guidelines for Social Media Marketing
- 

**Module 3: Emerging Trends and Future of Social Media Marketing (10 Hours)**

**3.1 Current Trends in Social Media Marketing**

- Rise of Short-Form Video Content (TikTok, Instagram Reels)
- Social Commerce and Shoppable Posts
- The Role of AI and Chatbots in Social Media

**3.2 Building Communities on Social Media**

- Strategies for Community Building and Management
- Engaging with Followers and Creating User-Generated Content (UGC)
- Hosting Virtual Events and Live Streaming

**3.3 The Future of Social Media Marketing**

- Predictions for the Evolution of Social Media Platforms
- Preparing for the Impact of New Technologies (AR/VR, Metaverse)
- Career Opportunities in Social Media Marketing

## Syllabus for the Course

**PG AND RESEARCH DEPARTMENT OF COMMERCE**

**ADD-ON CERTIFICATE COURSE**

**SOCIAL MEDIA MARKETING**

**DETAILS OF ENROLLED STUDENTS**

<b>SL NO.</b>	<b>NAME OF THE STUDENT</b>
1	ADISHA ASHOKAN
2	AKHIL RADEESH N M
3	AKHILA NARAYANAN
4	ANAGHA P. C
5	ANAGHA RAJEEVAN A V
6	ANGHNA SANNITH
7	ANJANA SATHEESAN
8	ANUGRAHA SUDHEER
9	ARJUN MANOJ .V.P
10	ATHULYA A
11	AVANYA RAJITH
12	AZHAR MASHOOQUE
13	DEVIKA SATHYAPAL
14	FATHIMATHUL HIBA FAROOQUE
15	GOPIKA RUPESH
16	HIRAN KUMAR T P
17	HRIDHYA HARI E
18	JESIKA JENILKUMAR
19	KRIPA P B
20	NANDANA ANISH
21	NANDANA DHANANJAYAN
22	NIDERSHANA V V
23	NIVYA.M
24	RAMDAS A SHENOY
25	RITHUSREE VINOD
26	SANDRA RAJ M V
27	SANGEETH SUJITH A
28	SHANU ALTHAF
29	SHARMINA SHARIN.M.P
30	SHAZINA R M
31	SHREE GANESH.K.
32	THEERTHA P
33	VAISHAKI T V
34	VIMALPRAKASH M
35	VYBHAV PRASANTH M



PG AND RESEARCH  
DEPARTMENT OF COMMERCE  
SREE NARAYANA COLLEGE, KANNUR

# Certificate

OF COMPLETION

PROUDLY PRESENTED TO

{{ Full Name }}

For Successfully Completing the 30-Hour Add-on Course on  
"SOCIAL MEDIA MARKETING"  
Conducted by the PG and Research Department of Commerce and  
Internal Quality Assurance Cell, Sree Narayana College, Kannur,  
from June 2021 to March 2022  
with A+ Grade

HOD, COMMERCE

PRINCIPAL



DATE



CREATIVE IDE Web  
**Digit**  
MEDIA Prom  
**Advertising Ma**  
Online Growth  
Mobile TARGET  
**BRANDIN**



**ADD-ON  
CERTIFICATE  
COURSE**

# **FOUNDATION OF DIGITAL MARKETING**

Organized by :

**PG AND RESEARCH DEPARTMENT OF COMMERCE  
and  
INTERNAL QUALITY ASSURANCE CELL,  
SREE NARAYANA COLLEGE KANNUR**

**COURSE DURATION: 30 HOURS  
LIMITED SEATS**

For More Details, Contact: Dr. Amutha R, HoD and Course Coordinator

Syllabus for the Course  
**FOUNDATION OF DIGITAL MARKETING**

**Course Duration:** 30 Hours

**Modules:** 3

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**Module 1: Introduction to Digital Marketing (10 Hours)**

**1.1 Overview of Digital Marketing**

- Definition and Scope of Digital Marketing
- Evolution and Growth of Digital Marketing
- Importance of Digital Marketing in the Modern Business Landscape

**1.2 Digital Marketing Channels and Strategies**

- Understanding Different Digital Marketing Channels
- Integrated Digital Marketing Strategies
- Understanding the Customer Journey in the Digital Age

**1.3 Website Development and Optimization**

- Importance of a Website in Digital Marketing
- Basics of Website Design and User Experience (UX)
- Website Performance and Analytics (Google Analytics Basics)

**1.4 Search Engine Optimization (SEO)**

- Introduction to SEO: On-Page and Off-Page Optimization
- Keyword Research and Analysis
- SEO Tools and Techniques

**1.5 Search Engine Marketing (SEM)**

- Introduction to SEM and Pay-Per-Click (PPC) Advertising
  - Setting Up and Managing Google Ads Campaigns
- 

**Module 2: Core Components of Digital Marketing (10 Hours)**

**2.1 Social Media Marketing**

- Overview of Major Social Media Platforms and Their Marketing Potential
- Developing a Social Media Marketing Strategy
- Content Creation and Curation for Social Media
- Social Media Advertising: Targeting, Budgeting, and Measuring ROI

**2.2 Content Marketing**

- Importance of Content in Digital Marketing
- Developing a Content Marketing Strategy
- Types of Content: Blogs, Videos, Infographics, Podcasts, etc.
- Content Distribution Channels and Strategies

**2.3 Email Marketing**

- Basics of Email Marketing and Its Importance
- Building and Segmenting Email Lists
- Crafting Effective Email Campaigns

**2.4 Online Advertising and Affiliate Marketing**

- Types of Online Advertising: Display Ads, Banner Ads, Video Ads
  - Introduction to Affiliate Marketing and How It Works
- 

**Module 3: Advanced Digital Marketing Concepts and Future Trends (10 Hours)**

**3.1 Mobile Marketing**

- Importance of Mobile Marketing in the Digital Era
- Trends in Mobile Marketing

**3.2 Digital Marketing Automation**

- Introduction to Marketing Automation Tools
- Benefits of Automation in Digital Marketing
- Setting Up Automated Campaigns and Workflows

**3.3 Emerging Trends and Future of Digital Marketing**

- Impact of Artificial Intelligence and Machine Learning on Digital Marketing
- Role of Augmented Reality (AR) and Virtual Reality (VR) in Marketing
- Future of Search: Voice Search and Visual Search

**PG AND RESEARCH DEPARTMENT OF COMMERCE**

**ADD-ON CERTIFICATE COURSE**

**FOUNDATION OF DIGITAL MARKETING**

**DETAILS OF ENROLLED STUDENTS**

<b>SL NO.</b>	<b>NAME OF THE STUDENT</b>
1	ADARSH GOVIND P
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3	AMBIKA.P
4	ANJIMA HEMAND
5	APOORVA K
6	ASHLY K V
7	AVANTHIKA P
8	BHARATH T P
9	FASNA V P
10	FATHIMATHUL JUMANA M V
11	GOPITA SHIVANANDAN
12	HANA ABDUL JALEEL
13	HIMA K
14	JYOTHIKA V S
15	KRISHNENDU J K
16	NANDANA SATHEESH
17	NIHARA RAGESHAN
18	NILNA SUNDAR
19	NIMISHA C K
20	NOVA GRACE
21	PRANAVIYA C H
22	RAHBAR ROSHAN K C
23	REESNA M
24	RISHIKA SHAJI V V
25	ROOPALI S SOPANAM
26	SANISHA N
27	SHABARISH K SANTHOSH
28	SNEHA SWAMINATH
29	SRINJAY LALJITH
30	THRISHNA V
31	VAISHAKI T V
32	VARNA SASEENDRAN A
33	VISMAYA VIVEK
34	VYSHNAV SHYLESH PARAMBAN
35	YADHUKRISHNA P S



PG AND RESEARCH  
DEPARTMENT OF COMMERCE  
SREE NARAYANA COLLEGE, KANNUR

# Certificate

OF COMPLETION

PROUDLY PRESENTED TO

{{ Full Name }}

For Successfully Completing the the 30-Hour Add-on Course on  
"FOUNDATION OF DIGITAL MARKETING"  
Conducted by the PG and Research Department of Commerce and  
Internal Quality Assurance Cell, Sree Narayana College, Kannur,  
from June 2021 to March 2022  
with A+ Grade

HOD, COMMERCE

PRINCIPAL



DATE

**Department of Hindi**  
**Sree Narayana College Kannur**  
**Certificate Course in Translation Hindi (Non semester Certificate Course)**  
**2021-2022**  
**Admission started**



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



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

**SCHEME OF EXAMINATION AND SYLLABUS**

Dr Rathika Pancharapoil Kottayi.

HoD, Hindi

SREE NARAYANA COLLEGE

## CERTIFICATE COURSE IN TRANSLATION

(Non–Semester)

(With effect from the Academic Year 2019)

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. iterary 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.
- To able to understand the importance of translation.

## **ELIGIBILITY CRITERIA**

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

## **DURATION OF THE COURSE**

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

## **SCHEME OF THE COURSE**

Sl. No	Paper	Marks
1	Anuvaad sidhant evam prayog	40
2	Internal Assesment	10
<b>Total</b>		<b>50</b>

## **SYLLABUS**

### **ANUVAD AUR PRAYOG ( TRANSLATION AND PRACTICE)**

**Unit 1 : anuvad : paribhasha- anuvad ke prakar – mahatva-**

**Unit II: Anuvaad ka swaroop- anuvaad ki prakriya**

**Unit III : Karyalayi anuvaad –**

### **Reference Book:**

- 1) Anuvad Vigyan \_ Bholanath Tiwari**
- 2) Anuvad sidhant aur prayog – G -Gopinathan**



SREE NARAYANA  
COLLEGE KANNUR

*Department of Hindi*

# CERTIFICATE

OF COMPLETION

*proudly presented to*

*Adithya K*

*for successfully completing the CERTIFICATE COURSE IN  
COMMUNICATIVE HINDI in the year 2021-2022  
at SN college Kannur under Department of Hindi*

*K. Ajayakumar*

DR. K. AJAYAKUMAR  
PRINCIPAL  
SREE NARAYANA COLLEGE  
KANNUR



*R. Ramya Balan K*

DR. RAMYA BALAN K  
head of department

Dr. RAMYA BALAN. K  
H.O.D.  
HINDI DEPARTMENT  
SREE NARAYANA COLLEGE  
THOTTADA, KANNUR



**SREE NARAYANA COLLEGE KANNUR**

POST GRADUATE DEPARTMENT OF MATHEMATICS

**CERTIFICATE COURSE IN**

**PYTHON**

**2021-22**

## **ABOUT COURSE**

**FOR III DC AND II PG STUDENTS  
OFFLINE AND ONLINE  
PRACTICAL SESSIONS**

### **TOPICS COVERED**

- 1.PARTS**
- 2.FUNCTIONS**
- 3.STRINGS**
- 4.LIST,SETS**



**SREE NARAYANA COLLEGE , KANNUR  
POST GRADUATE DEPARTMENT OF MATHEMATICS**

# **CERTIFICATE COURSE**

## **PYTHON PROGRAMMING**

**Duration of the course:** 30 Hrs

**Course breakup –**

- Direct classroom teaching
- Guidance mode
- Self study
- Lab

**Course Vision** – A stepping stone to the world of Data Science.

**Course Objective** – To develop a thorough understanding in data analytics using Python.

**Course outcomes –**

- Demonstrate the usage of built-in objects in Python.

- Analyse the significance of Python program development environment by working on real world examples.

## **Syllabus**

### **Module 1: INTRODUCTION**

Introduction – What is a program - programming languages – machine language – Assembly language – High level language. Software development – History of Python programming language.

### **Module 2: PARTS OF PYTHON PROGRAMMING LANGUAGE**

Parts – Identifiers – keywords – statement and expressions – Variables – Operators – Data types – Indentation – Comments – Reading input – print output – type – conversions.

### **Module 3: CONTROL FLOW STATEMENT**

The if decision control flow statement – The if-else decision control flow statement – The if-else if-else decision control flow statements – Nested-if statement – The while loop – The for loop – The continue and break statements.

### **Module 4: FUNCTIONS**

Built-in functions – commonly used modules – Function; Definition and calling function – The return statement and void function – Scope and lifetime of variables – Default parameter- keyword arguments.

### **Module 5: STRINGS**

Creating and storing strings – The str( ) functions – Basic string

operations – Accessing characters in string by index numbers – String slicing and joining – String methods- formatting strings.

### Module 6: **LIST, DICTIONARIES, TUPLES & SETS**

Creating list – Basic list operations , indexing and slicing in lists – Built in functions – List methods – The del statement – Creating dictionary built-in functions – Dictionary methods – Creating Tuples – Basic tuple operations – Built-in function – Methods, Relation with List and Dictionary. Zip( ) function, Sets – set methods.

## **REFERENCE**

1. Introduction to Python programming - Gowrishankar S. & Veena A.

2. Python workbook- Ben Stephenson

### **Evaluation**

**Total : 30 marks**

<b>Mode of Evaluation</b>	<b>Max. Marks</b>	<b>Duration</b>
Theory	20 marks	1 hour
Practical	10 marks	1 hour

TOTAL MARKS	30 marks	
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CERTIFICATE  
COURSE  
IN  
PYTHON

2021 - 2022



















POST GRADUATE DEPARTMENT OF MATHEMATICS

SREE NARAYANA COLLEGE, KANNUR  
NAAC REACCREDITED WITH A GRADE

# CERTIFICATE OF COMPLETION

THIS CERTIFICATE IS PRESENTED TO

\_\_\_\_\_

FOR SUCCESSFULLY COMPLETING THE CERTIFICATE COURSE.....  
CONDUCTED BY POST GRADUATE DEPARTMENT OF MATHEMATICS, AND INTERNAL QUALITY  
ASSURANCE CELL, SREE NARAYANA COLLEGE, KANNUR , FROM ..... TO .....

\_\_\_\_\_

H.O.D. Mathematics

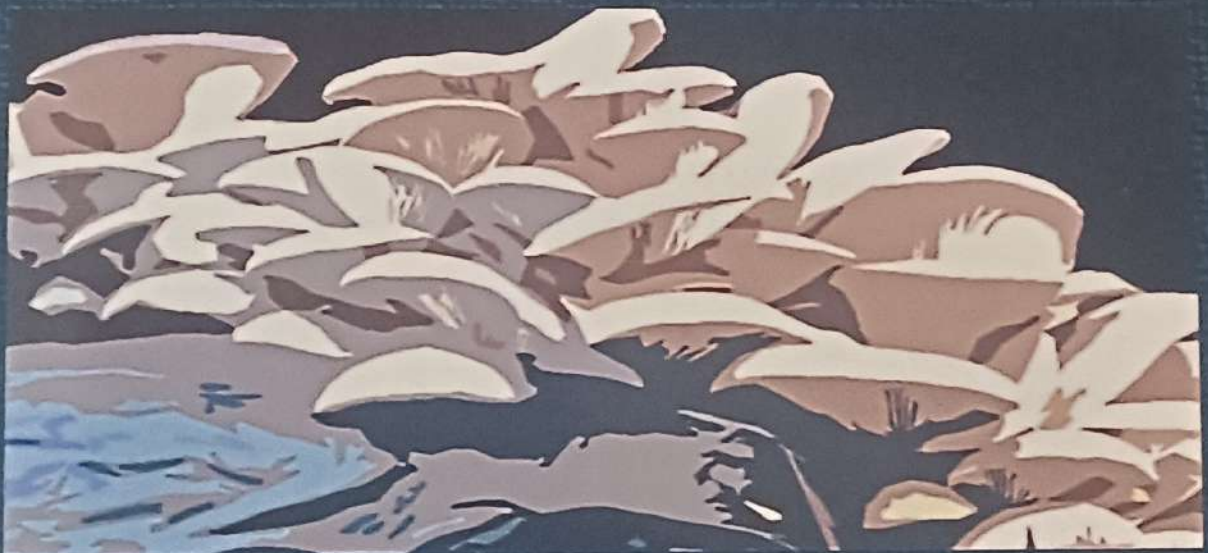
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Principal



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

# Certificate Course In Mushroom Cultivation



Mushroom production will improve the socio-economic status and solve the employment problems of rural economy by generating the income and job opportunities. The foremost objective of this course is to promote self-employment.

# **Certificate Course on Mushroom Cultivation**

## **Course Objective**

Mushroom production will improve the socio-economic status and solve the employment problems of rural economy by generating the income and job opportunities. The foremost objective of this course is to promote self-employment.

## **Learning Outcomes**

1. Acquire thorough knowledge on different types of edible and poisonous mushrooms
2. Develop a start up in mushroom cultivation and to get self-employability

## **Duration of Course**

Six weeks

## **Syllabus**

### **Module I**

Characteristics of various mushrooms (Poisonous and Edible). Types of edible mushrooms.

4 Hrs (Online mode)

### **Module II**

Mushroom cultivation- Types of media used, bed preparation procedure, Spawn production, Small Scale & large-scale production

3 Hrs (Offline mode)

### **Module III**

Govt. schemes for promoting mushroom cultivation, Pros and cons

2 Hrs ( Online mode)

Field Visit

MOU SIGNING, COURSE RELEASE, MAGAZINE COVER RELEASE, AND FOOD SAFETY TRAINING

7<sup>TH</sup> MARCH 2023

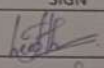
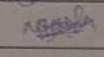
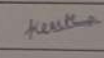
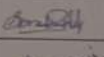
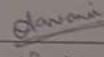
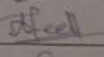
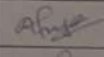
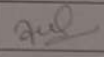
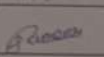
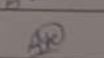
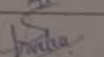
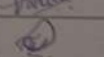
AT 10 AM SEMINAR HALL

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1	Maijana Keelha delhi	SSITS	maijanansirj@gmail.com	9188730654	
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MOU SIGNING, COURSE RELEASE, MAGAZINE COVER RELEASE, AND FOOD SAFETY TRAINING  
7<sup>TH</sup> MARCH 2023

AT 10 AM SEMINAR HALL

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33	Sameera K.P	SSITS	Sameerakpabdulbaki@gmail.com	9605936634	
34	Akhitha K	SSITS	akhithachikk@gmail.com	9496372952	
35	Sandya K	SSITS	SandyaRajagopal67@gmail.com	9497713132	
36	Theerthasivaji	SSITS	Theerthasivaji@gmail.com	7907382369	

Certificate course on Food borne Disease Vermicomposting  
in the Year 2021-2022

SL.No	Content
1	Brochure
2	Syllabus
3	Objectives and Learning outcomes
4	Time table
5	Enrollment list
6	Certificate
7	Report





**Sree Narayana College, Kannur**

NAAC Re-accredited with A Grade, CGPA: 3.04

**POST GRADUATE AND RESEARCH  
DEPARTMENT OF ZOOLOGY**

# **Certificate Course**

**2021-22**

**BASICS OF VERMICOMPOSTING**

**Course  
Cordinator**



**DR. PRASAD. B. O.**  
**Asst. Professor and HoD**  
**Dept. of Zoology**



**Register Now**

# SREE NARAYANA COLLEGE, KANNUR

Affiliated to Kannur University



Certificate course on 2021-22

Vermicomposting

Organized by Post Graduate department of Zoology

Course in Charge

DR PRASAD B O

Course Duration: 20/8/21 to 30/9/21



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SREE NARAYANA COLLEGE, KANNUR

~~Post Graduate and Research Department of Zoology~~

Title: Basics of Vermicomposting

Total Hours: 30

UNIT - I

Vermitechnology- Definition, history, growth and development in other countries & India, significance.

UNIT - II

Vermiculture - definition, scope and importance; common species for culture; Environmental parameters; culture methods - wormery - breeding techniques; indoor and out door cultures - monoculture and polyculture - merits and demerits.

UNIT - III

Vermicomposting of wastes in field pits, ground heaps, tank method, roof shed method, static pile windrows, top fed windrows, wedges & bin method, harvesting the compost, storage, Vermiwash- Preparation and application.

UNIT - IV

Applications of vermiculture - Vermiculture Bio-technology, vermicomposting, use of vermicastings in organic farming/horticulture, earthworms for management of municipal/selected biomedical solid wastes; as feed/bait for capture/culture fisheries; forest regeneration.

UNIT - V

Future perspectives - Predator / pathogen control in wormeries; Potentials and constraints for vermiculture in India. Marketing the products of vermiculture - quality control, market research, marketing techniques - creating the demand by awareness and demonstration, advertisements, packaging and transport, direct marketing. Visit to relevant Labs/Field Visits.



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**SREE NARAYANA COLLEGE, KANNUR**

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**Post Graduate and Research Department of Zoology**

**Title: Basics of Vermicomposting**

**Course Objectives:**

1. Understanding Vermitechnology:
2. Exploring Vermiculture:
3. Implementing Vermicomposting Techniques:
4. Application of Vermiculture:

**Course Outcomes**

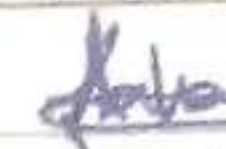



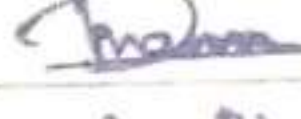

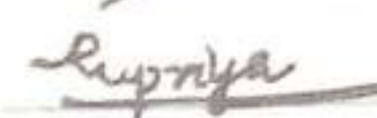




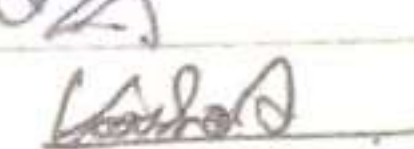


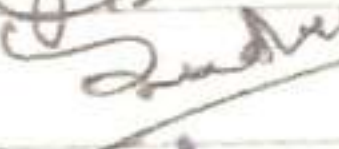
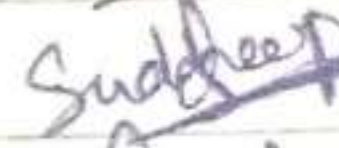

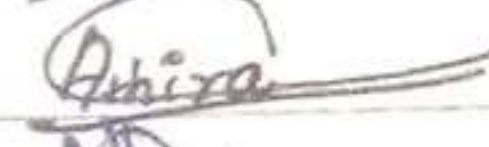


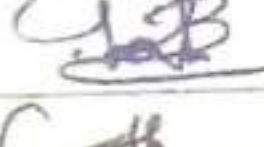
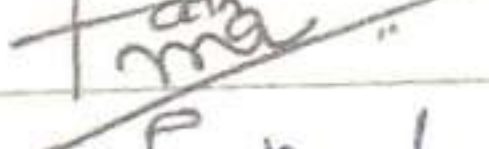




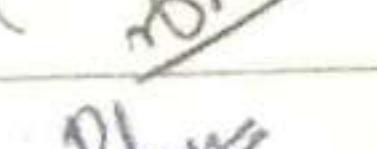

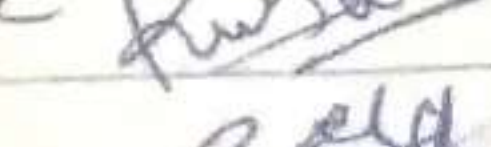

1. Define and Explain
2. Identify and Analyze
3. Implement and Execute:
4. Apply and Evaluate:
5. Strategize and Market:



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Time Table of Certificate course - 2021-22

Date	Time	Theory / Practical	Name of the teacher
20/8/21	10 to 11 am	Inauguration	Dr. Prasad. B.O, Ms. Nithinaya. R
21/8/21 (Sat)	10 am to 12 pm	Theory	Dr. Prasad. B.O
23/8/21	3.30 to 4.30	"	Ms. Nithinaya. R
24/8/21	3.30 to 4.30	"	Dr. Preethakumari. V.M
25/8/21	3.30 to 4.30	"	Dr. Divya. S. Rajan
26/8/21	3.30 to 4.30	"	Dr. Prasad. B.O
27/8/21	3.30 to 4.30	"	Dr. Preethakumari. V.M
28/8/21	10 to 12 pm	"	Dr. Prasad B.O
31/8/21	3.30 to 4.30	"	Ms. Nithinaya. R
1/9/21	3.30 to 4.30	"	Dr. Divya. S. Rajan
3/9/21	3.30 to 4.30	"	Ms. Namitha. K
4/9/21	9.30 to 4.30	Field visit	Dr. Prasad. B.O and Dr. Preethakumari
7/9/21	3.30 to 4.30	"	Ms. Namitha. K
8/9/21	3.30 to 4.30	"	Ms. Panjani. Rajan
9/9/21	3.30 to 4.30	"	Ms. Saranya. P.P
11/9/21	10 to 1 pm	"	Ms. Savitha
13/9/21	3.30 to 4.30	"	Ms. Savitha
14/9/21	3.30 to 4.30	"	Ms. Savitha
15/9/21	3.30 to 4.30	"	Ms. Saranya. P.P
16/9/21	3.30 to 4.30	"	Ms. Saranya. P.P
17/9/21	3.30 to 4.30	"	Ms. Saranya. P.P
18/9/21	10 to 12 pm	"	Ms. Panjani Rajan
20/9/21	3.30 to 4.30	"	Ms. Savitha
21/9/21	3.30 to 4.30	"	Dr. Prasad. B.O
22/9/21	3.30 to 4.30	"	Dr. Preethakumari. V.M
24/9/21	3.30 to 4.30	"	Dr. Prasad. B.O
25/9/21	10 to 12 pm	"	Ms. Nithinaya. R
27/9/21	3.30 to 4.30	"	Ms. Nithinaya. R
28/9/21	3.30 to 4.30	"	Ms. Nithinaya. R
29/9/21	3.30 to 4.30	"	Dr. Divya. S. Rajan
30/9/21	3.30 to 4.30	"	Ms. Namitha. K

SL No	Reg. No	Name	Signature
1	SN18CZOR01	Abhina K	
2	SN18CZOR02	Anushmol. K.V	
3	SN18CZOR03	Anusree. V.V	
4	SN18CZOR04	Aparna Dinush	
5	SN18CZOR05	Dhanasree. V.V	
6	SN18CZOR06	Manjima Mahesh	
7	SN18CZOR08	Rupriya Prakash Babu	
8	SN18CZOR09	Sandra K	
9	SN18CZOR10	Shreha. K.K	
10	SN18CZOR11	Sonima Krishnan. C	
11	SN18CZOR12	Soorya. N.K	
12	SN18CZOR13	Varsha Anush	
13	SN18CZOR14	Varsha. C	
14	SN18CZOR15	Jithunraj. K	
15	SN18CZOR16	Sudheep. M.P	
16	SN18CZOR17	Aashma. K	
17	SN18CZOR18	Angitha Anilkumar	
18	SN18CZOR19	Athira	
19	SN18CZOR20	Athulya. K	
20	SN18CZOR21	Bhagya Vinodan	
21	SN18CZOR22	Devika B. Manikandan	
22	SN18CZOR23	Fathimath Safa	
23	SN18CZOR24	Jirisha. M	
24	SN18CZOR25	Mathu. K.B	
25	SN18CZOR26	M. Neethu	
26	SN18CZOR27	Najiya. T. P	
27	SN18CZOR28	Neelara Murali	
28	SN18CZOR29	Rasmika Ramesh	
29	SN18CZOR30	Rimika Gopinath Rimika	
30	SN18CZOR30	Rimika Gopinath Shyamila	

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**SREE NARAYANA COLLEGE KANNUR**

POST GRADUATED DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE 2020-21

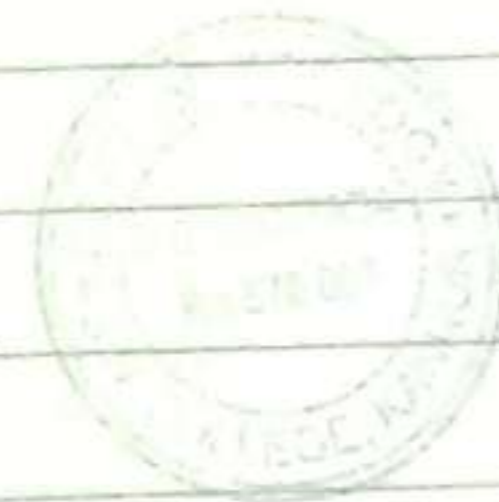
**Basics of Vermicompost**

has successfully completed certificate course on Basics of vermicomposting from 20/08/2021 to 30/09/2022. Organized by Post graduate and Research department of Zoology, Sree narayana college, kannur.

Principal



Head of the department



SREE NARAYANA COLLEGE KANNUR

POST GRADUATE DEPARTMENT OF ZOOLOGY

REPORT ON CERTIFICATE COURSE

**TITLE:** BASICS OF VERMICOMPOSTING

**COORDINATOR:** DR PRASAD B O

The Department of Zoology conducted a certificate course titled "Basics of Vermicomposting" aimed at equipping participants with fundamental knowledge and practical skills in vermicomposting. The course took place over from 20/08/2021 to 19/09/2022 at Zoology lab.

**Objectives:**

- To educate participants about the principles of vermicomposting.
- To provide hands-on training for setting up and maintaining vermicomposting systems.
- To promote sustainable waste management practices in the community.

