

THIRUVANANTHAPURAM

POST GRADUATE DEPARTMENT OF BOTANY & RESEARCH CENTER

NOTICE

ADD-ON COURSE - HORTICULTURE

Dear students,

We are excited to announce the introduction of an Add-On course titled "Horticulture" for the academic year 2022-2023. This course aims to provide students with an in-depth understanding of Horticulture techniques and their practical applications.

Details of the Add-On Course:

Course Duration: 3 months

Start Date: 03/08/2022

End Date: 30/10/2022

Time: 0 hr

Venue: Room 55

Registration Details

Last Date for Registration: 25/07/2022

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

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

Warm regards,

Head, Department of Botany





MAHATMA GANDHI COLLEGE THIRUVANANTHAPURAM

Re-accredited with B+ Grade by NAAC

ADD ON COURSE- HORTICULTURE COURSE STRUCTURE AND SYLLABUS

BY

POST GRADUATE DEPARTMENT & RESEARCH CENTRE OF BOTANY



(2022 onwards)

OBJECTIVES OF THE COURSE

- The candidate is trained on professional skill, professional knowledge and Employability skill related to jobs in Horticulture.
- To create awareness about different propagation methods for plants, fundamentals of horticulture, importance and scope of horticulture, classification of horticultural plants and its economic aspects.
- The candidates learns about importance of fruits, flowers and vegetables, present situation and scope of development of horticultural crops, schemes on horticultural development, layout of plots and gardens, planning for home gardens, landscape gardens, experimental designs, fruit culture, vegetable propagation, cultivation of fruits & vegetables and flower arrangement.
- In addition a candidate is entrusted to undertake project works, extracurricular activities and on job training to build up confidence.

EXPECTED OUTCOME OF THE COURSE

- > Crop Production: Understanding horticultural techniques allows for the efficient production of a wide range of crops, including fruits, vegetables, ornamental plants, herbs, and medicinal plants.
- > Plant Breeding: Horticulture techniques involve the study of plant breeding to develop new cultivars with improved traits.
- > Sustainable Agriculture: Horticulture techniques play a crucial role in promoting sustainable agriculture practices including studying organic farming methodsand integrated farming systems.
- > Nursery Management: Horticulture techniques encompass the management of plant nurseries, which involves propagation, production, and marketing of plants. This includes studying nursery design, plant propagation techniques, container production, pest and disease management in nurseries, and marketing strategies for selling horticultural products.
- > Post-Harvest Technology: Studying horticulture techniques also covers post-harvest handling, processing, and preservation of horticultural crops and value addition to extend the shelf life, maintain quality, and reduce post-harvest losses.
- > Entrepreneurship and Business: Studying horticulture techniques provides the knowledge and skills required for entrepreneurship in the horticulture industry. This includes understanding market trends, business planning, financial management, marketing strategies, and value chain analysis for horticultural products.

COURSE STRUCTURE

DURATION

30 Hrs

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

HORTICULTURE

SYLLABUS

MODULE I

(10 hrs)

- Scope and importance of horticulture, Divisions of horticulture
- Soil preparation, Potting mixture and potting media, Types of pots and containers
- Garden tools and implements
- > Manures and fertilizers Time and application of manures and fertilizers. Weedicides, Fungicides, Pesticides
- > Growth regulators in horticulture Rooting hormones, Growth promoters, Flower induction.

MODULE- II

(15 hrs)

- Propagation methods
 - Cuttings- root, stem, leaf
 - o Layering Air layering, Ground layering (Tip, Trench and Compound)
 - Budding T-budding
 - Grafting Approach grafting, Bridge grafting, whip and tongue grafting
- ▶ Bonsai
- Lawns and landscaping

MODULE- III

(5 hrs)

- > Flower Arrangement
 - o Containers and requirements for flower arrangements Free style, Shallow and Mass arrangement
 - o Ikebana
 - Bouquet and garland making
 - o Dry flower arrangement
 - Harvesting and Storage methods of flowers
- Field Study and workshops: Visit to a Botanical garden of horticultural importance

POSTGRADUATEDEPARTMENTANDRESEARCHCENTREOFBOTANY

THIRUVNANTHAPURAM

ADDONCOURSE -2022- 2023

LISTOFSTUDENTS-HORTICULTURE

SL.NO	NAMEOFSTUDENT	CLASS/S EMESTER
1	SREEKUTTY R	II PG
2	SREELEKSHMI P S	II PG
3	VRINDHA VISWAM	II PG
4	APARNA M S	I PG
5	ARYA S S	I PG
6	AYANA A S	IPG
7	AMAL DEV S	III UG
8	ANJANA M S	III UG
9	ANJITHA PRASAD L	III UG
10	APARNA B	III UG
11	GOPIKA S	III UG
12	NANDHANA S	III UG
13	SANDEEP S	III UG
14	CHANDHANA V S	III UG
15	KRISHNENDHU A P	III UG
16	M PRAVEENA PRATHAPAN	III UG
17	SANDRA U SAJAN	III UG
18	VIJITHA S U	III UG
19	AMAL KRISHNA M	III UG
20	ANJALI B S	III UG
21	AKASH V	III UG
22	SANDESHJS	II UG
23	SANDRASNAIR	II UG
24	SANYAA S	II UG
25	SREELEKSHMIVS	II UG
26	SWETHASABU	II UG
27	ABINS	II UG
28	AKHILKRISHNAAS	II UG

29	ATHULYAKRISHNA.S	II UG
30	AVANTHIKA.M.R	II UG
31	DEVIKARAJANAT	II UG
32	FEBAKU	II UG
33	GOURIKRISHNA.S.B	II UG
34	HAFISRAHMANN	II UG
35	KIRANM	II UG
36	AADHIYA K V	II UG
37	ABHILASHV	IUG
38	ABHINAVSS	IUG
39	ADITHYASNAIR	IUG
40	ADITHYANAV	IUG
1	ADITHYANKM	1 UG
12	ARATHYA	IUG
13	ARJUNVS	IUG
14	GAYATHRYS.G	IUG
15	KAVYATR	IUG
46	LEKSHMIJAYAN	IUG
47	MOHAMMADFAIZALF	IUG
48	NANDHUAR	IUG
49	NANDUNB	IUG
50	NIKHILS	IUG

HEADOFTHE DEPARTMENT

PRINCIPAL

MAHATMA GANDHI COLLEGE, THIRUVNANTHAPURAM

POST GRADUATE DEPARTMENT AND RESEARCH CENTRE OF BOTANY

ADD ON COURSE - 2022 - 2023

ATTENDANCE OF STUDENTS - HORTICULTURE

SL.NO	NAME OF STUDENT	CLASS/ SEMESTER	12 Selisas	Same?	Monday	A STATE	2000	Podent	Struck S	2-9-21 0-19-15	12-10-23	19-10-2
-	SREEKUTTY R	II PG	ah	×	70	>	,	5	,	,		
2	SREELEKSHMI P S	II PG	*	7	2	1	7	10	× 1	× .	*	*
3	VRINDHA VISWAM	II PG	×	4	×	* -	4 -	9	< !	*	4	X.
4	APARNA M S	IPG	×	+	×	4.	*	× .	× z	×	4	S
5	ARYASS	IPG	×	×	*	* *	3 -	4	× 7	3:	*	*
9	AYANAAS	IPG	×	al	× ×	7	3	* *	< 5.	3	4	*
7	AMAL DEV S	III UG	×	×	×	+	8	*		ay.	×	×
«	ANJANA M S	III UG	*	*	*	+	× ×		*	4	4	*
6	ANJITHA PRASAD L	DO III	4	*	*	×	×	4 9	X	*	3 2	*
10	APARNA B	III UG	*	×	×	ah	*		K	*		*
11	GOPIKAS	III UG	+	*	70	*	×		×	+	×	×
12	NANDHANA S	III UG	4	+	24	*	,	*	*	*		+ ;
13	SANDEEPS	III UG	×	8	44	>		* 5	3	* >	x i	~
14	CHANDHANA V S	III UG	×	*	7	, 4		77	< >	. ,	+ 1	8
15	KRISHNENDHU A P	III UG	70	×	7	10	* >	12		4	4	+
91	M PRAVEENA PRATHAPAN	DU III	,	,	7	2		2 3	× ×	9	2	+
17	SANDRA U SAJAN	III UG	,	,	7		× :		,	9	1	×
18	VIJITHA S U	III UG		,	7	*	X ;	× 7	×	×	×	7
19	AMAL KRISHNA M	III UG	×	7	,	×.	×	×	X	×	×	1
20	ANJALIBS	III UG	4 7	*	70	,	9	,	*	*	*	3
21	AKASH V	DO III	4	*	1	*	× 9	X	* *	* 7	* 7	*
22	SANDESH JS	II UG	9 8		,	1		,		1	1	×

MAHATMA GANDHI COLLÉGE, THIRUVNANTHAPURAM

POST GRADUATE DEPARTMENT AND RESEARCH CENTRE OF BOTANY

ADD ON COURSE - 2022 - 2023

ATTENDANCE OF STUDENTS - HORTICULTURE

ENT CLASS, 23-10-23-10-24-24-24 [9-11-24 14] R II IPG	SEMESTER CLASS Printed Transfer Shifts of the control of the contr
23:10-	1200 2 x x x x x x x x x x x x x x x x x
THE STATE OF THE S	

VS IIUG	SREELEKSHMI VS II UG	SREELEKSHMI VS II UG	24 24	SANYA A S	n uG	×	3	*	×	7		×		8
SWETHEKSHMIVS IIUG	SWEFLEKSHMIVS IIUG	SWEELEKSHMIVS IIUG	35	SAATMAS	II UG	de	7	×	RA	×		×	×	
ABINS ABINS IIUG ACHIL KRISHNA AS IIUG ACHIL YA KRISHNA AS IIUG AVANTHIKA.M.R BEBAKU GOURI KRISHNA .S. B HUG ABHILASH V ABHILA	SWETHASABU IIUG X <	SWETHASABU IIUG X <	36	SREELEKSHMI V S	II UG	*	*	8	X	4		×	×	
ARHIL KRISHNA A S	ABINS IIUG	ABINS IIUG	07	SWETHA SABU	II UG	×	*	88	*	*	×		*	
AKHIL KRISHNA A S	AKHIL KRISHNAAS II UG	AKHIL KRISHNAAS II UG × 45 × 46 × 46 × 46 × 46 × 46 × 46 × 46		ABINS	II UG	×	&	9	×	×	<		×	
ATHULYA KRISHNA.S AVANTHIKA.N.R BEVIKA RAJAN A T BEVIKA RAJAN A T BEVIKA RAJAN A T BENEAK U GOURI KRISHNA.S.B BIUG KRAN M BIUG KADHYA K V BIUG ABHILASH V ABHILASH V ABHILASH V ABHILASH V BIUG AACH KAN M AACH BIUG AACH KAN M BIUG AACH KAN M AACH BIUG AACH AACH BI	AVANTHIKA.M.R. II UG	ATHULYA KRISHNA.S AVANTHIKA.M.R BUSUKA RAJAN AT BUGG	8 8	AKHIL KRISHNA A S	II UG	×	*	×	97	+	3	9	×	×
AVANTHIKA.N.R II UG BEVIKA RAJANA T II UG GOURI KRISHNA.S. B II UG AADHYA K V ABHILASH V ABHILASH V ADITHYAN NA II UG AADTHYAN S NAIR ABUTHYAN W ARATHYA ARATHYA II UG AADTHYAN S II UG AADTHYAN S II UG AADTHYAN S II UG AADTHYAN S II UG AATTHYA ARATHYA ARATHYA II UG AATTHYA ARATHYA II UG AATTHYA ARATHYA II UG AATTHYA ARATHYA II UG AATTHYA ARATHYA ARATHYA ARATHYA II UG AATTHYA AATHYA AATTHYA AAT	AVANTHIKA.N.R II UG	AVANTHIKA.M.R II UG	67	ATHULYA KRISHNA.S	II UG	*	de	×	7	X	×		×	*
DEVIKA RAJAN A T II UG	DEVIKARAJAN AT II UG	DEVIKA RAJAN A T II UG		AVANTHIKA.M.R	II UG	×	7	×	7	×	×		*	
FEBAKU II UG	FEBAKU II UG	FEBAKU II UG ×		DEVIKA RAJAN A T	II UG	*	×	×	*	+	×		7	
GOURI KRISHNA. S. B II UG	GOURI KRISHNA.S.B II UG	GOURI KRISHNA.S.B II UG ×		FEBAKU	II UG	*	×	3	+	×	ah		×	×
HAFIS RAHMANN . II UG	HAFIS RAHMAN . II UG	HAFIS RAHMANN IIUG		GOURI KRISHNA. S. B	II UG	×	*	de	+	*	>		×	
KIRAN M II UG CL X <t< td=""><td>KIRAN M II UG CL X X X AADHYA K V II UG X</td></t<> <td>KIRAN M II UG 46 7 <t< td=""><td></td><td>HAFIS RAHMAN N</td><td>II UG</td><td>*</td><td>*</td><td>*</td><td>et.</td><td>*</td><td>></td><td></td><td>5</td><td></td></t<></td>	KIRAN M II UG CL X X X AADHYA K V II UG X	KIRAN M II UG 46 7 <t< td=""><td></td><td>HAFIS RAHMAN N</td><td>II UG</td><td>*</td><td>*</td><td>*</td><td>et.</td><td>*</td><td>></td><td></td><td>5</td><td></td></t<>		HAFIS RAHMAN N	II UG	*	*	*	et.	*	>		5	
ABHILASH V IUG	AADHYA K V II UG 1	ABHILASH V IUG X X X X X X X X X X X X X X X X X X X	-	KIRAN M	II UG	eb.	*	×	×	*	×	_	14	
ABHILASH V I UG	ABHILASH V I UG	ABHILASH V I UG Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y		AADHYA K V	II UG	ah	4	~	×	*	>		8	-
ABHINAV SS I UG	ABHINAV SS I UG	ABHINAV SS NAIR I UG	4	ABHILASH V	1 UG	7	*	AB	×	,	>		5	-
ADITHYAS NAIR IUG + + + + + + + + + + + + + + + + + + +	ADITHYAS NAIR IUG + + + + + + + + + + + + + + + + + + +	ADITHYAS NAIR IUG + + + + + + + + + + + + + + + + + + +		ABHINAV SS	10G	*	*	*	4	-	>		,	*
ADITHYAN A V I UG + + + + + + + + + + + + + + + + + +	ADITHYAN A V I UG + + + + + + + + + + + + + + + + + +	× × × × × × × × × × × × × × × × × × ×		ADITHYA S NAIR	LUG	7	479	×	×	12	>		1	
ARJUTHYANK M I UG + + + × 46 × 46 × 46 × 46 × 46 × 46 × 4	ABJUTHYANK M 1 UG	× × × × × × × × × × × × × × × × × × ×		ADITHYANAV	106	*	*	×	7	*	4		*	
ARATHYA IUG +	ARATHYA IUG + + + × + × × × × × × × × × × × × × ×	100 100 100 100 100 100 100 100		ADITHYANKM	10G	7	*	×	2.6	×	×		>	
100	100	100		ARATHY A	IUG	+	+	×	ch de	>	×		9	
GAYATHRY S.G IUG AB X X X X X X X X X X X X X X X X X X	ANDRUNB IUG AB X X X X X X X X X X X X X X X X X X	× × × × × × × × × × × × × × × × × × ×		ARJUN V S	1.00	88	*	*	×	X	t		>	>
LEKSHMIJAYAN IUG + + + + + + + + + + + + + + + + + + +	LEKSHMI JAYAN I UG	100 100 100 100 100 100 100 100		GAYATHRY S.G	10G	ab	×	*	*	×	44		×	
100 PM	100 × × × × × × × × × × × × × × × × × ×	100 100 100 100 100 100 100 100		KAVYATR	10G	47	۲	2	4	+	,		×	
× × × × × × × × × × × × × × × × × × ×	7 7 7 7 7 97 7 901 100 100 100 100 100 100 100 100 100	* * * * * * * * * * * * * * * * * * *		LEKSHMI JAYAN	100	7	~	×	x	×	* *		*	×
7 7 7 901	* * * * * DOI	+ + + + + + + + + + + + + + + + + + +	13	MOHAMMAD FAIZAL F	100	+	>	>	*	Y	7		,	
	10G × 64 × 501	+ 100 × 40 × 5011		NANDHUAR	100	7	7	,	×	*	7		42	4
LIY ENGAGED THE A SON SON THE SS	GAGED THE CAS SUP SOUND			SIGNATURE OF HOD		æ	(H	No.	6	B	Q	1	19	6

SANDRAS NAIR		23	24	22	56	27	28	29	30	31	32	33	34	35	36	37	38	39	9	14	47	43	4	45	94	47	48	49	20	IGNA	
## ## ## ## ## ## ## ## ## ## ## ## ##		SANDRA S NAIR	SANYAAS	SREELEKSHMI V S	SWETHA SABU	ABIN S	AKHIL KRISHNA A S	ATHULYA KRISHNA.S	AVANTHIKA.M.R	DEVIKA RAJAN A T	FEBAKU	GOURI KRISHNA.S.B	HAFIS RAHMAN N	KIRAN M	AADHYAKV	ABHILASH V	ABHINAV SS	ADITHYA S NAIR	ADITHYANAV	ADITHYANKM	ARATHY A	ARJUN V S	GAYATHRY S.G	KAVYATR	LEKSHMI JAYAN	MOHAMMAD FAIZAL F	NANDHUAR	NANDUNB	NIKHIL S	ATURE OF FACULTY ENG CLASS	SIGNATURE OF HOD
2 2 × × × × × × × × × × × × × × × × × ×	6	90 11	II UG	II UG	II UG	II UG	II UG	II UG	II UG	II UG	II UG	90 II	II UG	II UG	II UG	IUG	10G	IUG	IUG	1 UG	IUG	10G	10G	LUG	1 UG	1 UG	1 0G	IUG	1 UG	SAGED THE	
× × 5 × × × × × × × × × × × × × × × × ×		×	97	8	×	*	×	*	×	×	×	×	×	×	×	×	×	3	×	×	×	¥	×	6	×	×	×	×	ds	otal	0
× × × × × × × × × × × × × × × × × × ×		×	×	×	×	×	×	×	×	8	*	×	X	, >	< >	×	K	×	×	×	*	×	47	×	×	×	×	×	X	182	Q
3/2		×	×	K	00	×	×	×	*	×	8	×	*	,	×	×	×	×	ch	×	Y	×	7	×	×	×	200	×	¥	8	(
		×	7	Ch	×	×	×	7	< >	< >	,	* *		3 >	< >	×	· >	:	× ×	` `	×	*	×	4	*	,	×	×	Y	雪	Q
		*	< >	×	77	>	×	× ×	. >	× ×	×	*	. *	, 3	. >	40	×	,	* *	*	×	*	4	* %	*	78	X	*	*	W W	\ '

THIRUVANANTHAPURAM

POST GRADUATE DEPARTMENT & RESEARCH CENTRE OF BOTANY

ADD ON COURSE- HORTICULTURE

QUESTION PAPER

2022-2023 Academic year

Duration: 1 hr Marks: 30

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

- 1. Define horticulture.
- 2. Name one division of horticulture.
- 3. What is the primary purpose of a potting mixture?
- 4. Mention a common garden tool.
- 5. What is a rooting hormone?
- 6. What is Ikebana?

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

- 7. Discuss in detail the types of manures and fertilizers, focusing on their application times and impacts on plant growth.
- 8. Explain the different propagation methods in horticulture, including stem, root, and leaf cuttings.
- 9. Describe the art and science of Bonsai, highlighting its importance in horticulture.
- 10. Delve into the concepts of lawns and landscaping, emphasizing their aesthetic and ecological values.
- 11. Explain the various types of flower arrangements, focusing on the principles and techniques of Ikebana.
- 12. Discuss the importance of harvesting and storage methods of flowers in maintaining their freshness and prolonging their lifespan.
- 13. Explain the importance of soil preparation in horticulture.

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

- 14. Elaborate on the various types of pots and containers used in horticulture and their significance.
- 15. Discuss in detail the types of manures and fertilizers, focusing on their application times and impacts on plant growth.
- 16. Explain the different propagation methods in horticulture, including stem, root, and leaf cuttings.
- 17. Describe the art and science of Bonsai, highlighting its importance in horticulture.
- 18. Explain the various types of flower arrangements, focusing on the principles and techniques of Ikebana.

POST GRADUATE DEPARTMENT AND RESEARCH CENTRE OF BOTANY

THIRUVNANTHAPURAM

ADD ON COURSE - 2022 - 2023

MARK LIST OF STUDENTS - HORTICULTURE

SL.NO	NAME OF STUDENT	CLASS/ SEMESTER	MARK	SIGNATURE
1	SREEKUTTY R	II PG	22	Leclaritis
2	SREELEKSHMI P S	II PG	23	anteres ()
3	VRINDHA VISWAM	II PG	08	High
4	APARNA M S	I PG	24	Cart .
5	ARYA S S	IPG	22	No.
6	AYANA A S	I PG	28	dyour
7	AMAL DEV S	III UG	21	aconde
8	ANJANA M S	III UG	22	duine
9	ANJITHA PRASAD L	III UG	19	Jeroth
10	APARNA B	III UG	20	Amona -
11	GOPIKA S	III UG	28	Gamilea
12	NANDHANA S	III UG	26	Vindans
13	SANDEEP S	HIUG	08	Santan
14	CHANDHANA V S	HIUG	16	Chandom
15	KRISHNENDHU A P	HIUG	21	Kribmendin
16	M PRAVEENA PRATHAPAN	III UG	24	Land. I
17	SANDRA U SAJAN	III UG	26	Ceandr
18	VIJITHA S U	III UG	19	Vistbe.
19	AMAL KRISHNA M	III UG	04	To les
20	ANJALI B S	III UG	28	Anali
21	AKASH V	III UG	22	1000
22	SANDESH JS	II UG	24	Cardeelo
23	SANDRA S NAIR	II UG	26	Condra
24	SANYA A S	II UG	29	Lander
25	SREELEKSHMI V S	II UG	21	San lub.
26	SWETHA SABU	II UG	20	On Mai
27	ABIN S	II UG	06	dhin
28	AKHIL KRISHNA A S	II UG	21	-141 0

29	ATHULYA KRISHNA.S	II UG	26	Athulhartida
30	AVANTHIKA.M.R	II UG		Thursday of the
31	DEVIKA RAJAN A T	II UG	24	Data
32	FEBAK U	II UG	28	ralla.
33	GOURI KRISHNA . S . B	II UG	1	a di
34	HAFIS RAHMAN N	IÎ UG	21	Have Rainway
35	KIRAN M	II UG	05	THE KOMM
36	AADHYA K V	II UG	23	A. II.
37	ABHILASH V	TUG	26	AFOUN
38	ABHINAV SS	TUG	28	MQ.
39	ADITHYA S NAIR	TUG	16	Alle
40	ADITHYAN A V	IUG	08	Ac m
41	ADITHYAN K M	IUG	28	Nat : 16 vac
42	ARATHY A	IUG	26	. Asth
43	ARJUN V S	LUG	22	Asino.
44	GAYATHRY S.G	LUG	24	Carehi
45	KAVYATR	LUG	26	Laula
46	LEKSHMI JAYAN	1 UG	28	Ble
47	MOHAMMAD FAIZAL F	I UG	29	Volumetrical
48	NANDHU A R	1 UG	28	Northy
49	NANDU N B	LUG	22	· Mall
50	NIKHIL S	I UG	06	(Xhidha)



THIRUVANANTHAPURAM Re-accredited with B+ Gade by NAAC

DEPARTMENT OF BOTANY

CERTIFICATE

Head of the Department

W/ Principal



Report on the Add-on Course in Horticulture

Academic Year: 2022-2023

With an objective to enhance the academic experience of students through specialized sessions, the Department of Botany organized a course for the academic year 2022-2023. . This program was developed not only to educate but also to instil a scientific temperament among students and nurture a sense of social responsibility. Furthermore, this course is a testament to our commitment to ensuring that our students receive a comprehensive education. Structured as a 30hour course, the content was curated for Post Graduate and Undergraduate students. The course was adeptly leaded by Dr. Praveenkumar BS, Assistant Professor, Department of Botany, NSS College, Cherthala, Alappuzha, an expert in the field of Botany. With a plethora of experience under his belt, Dr. Praveenkumar's guidance was invaluable to the program's success. He was ably supported by a cadre of faculty members, each contributing their distinct expertise to the course modules.

Students greatly benefited from Dr. Praveenkumar's expertise, which was evident from the proactive participation in discussions and the quality of assignments submitted. His approachable demeanor encouraged students to clarify doubts, making the learning process more effective. Post-course feedback highlighted Dr. Praveenkumar's command over the subject and his ability to elucidate complex topics with ease. Students expressed gratitude for the insights they gained, with many considering pursuing advanced studies in the subject. The department extends its heartfelt gratitude to Dr. Praveenkumar BS for his stellar contribution to this course and looks forward to future collaborations.