

**POST GRADUATE DEPARTMENT OF BOTANY (SF)
DEVA MATHA COLLEGE, KURAVILANGAD**

Affiliated to Mahatma Gandhi University, Kottayam



**REPORT
ON
ADD-ON COURSE**

Botany in everyday life [DMCK/SFBOT/AD31/2022]

Academic Year: 2022-2023

POST GRADUATE DEPARTMENT OF BOTANY

DEVAMATHA COLLEGE, KURAVILANGAD

2021-2023 BATCH[II PG]

Add on course : Botany in everyday life[DMCK/SFBOT/AD31/2022]

Academic year	:2022-2023
Title of the course	: Botany in everyday life
Course code	: [DMCK/SFBOT/AD31/2022]
Instructional Hours	: 30 Hours
Duration	: One month
Date(s) on which program conducted	: January 2023
Mode of Instruction	: Offline
Intake Capacity	: 25
Eligibility	: Any degree
Collaborating agency inside or outside the institute	: No
Beneficiaries	: II PG [2021-2023 BATCH]
Organizing Dept./Club	: PG department of botany
Name of the Coordinator	: Sreekutty Sreedharan
Number of students participated in the program	: 17
The number of students completed the programme	: 17

Brochure



DEVA MATHA COLLEGE KURAVILANGAD
DEPARTMENT OF SELF FINANCE BOTANY PG

Add on Courses offered for Students : 2022-2023

- 1. Botany in Everyday Life
DMCK/ SFBOT/AD 31/2022**
- 2. Horticulture Applications
DMCK/ SFBOT/AD 32/2022**



Department Coordinator: Ms. Sreekutty Sreedharan

POST GRADUATE DEPARTMENT OF BOTANY (SF)
DEVA MATHA COLLEGE, KURAVILANGAD

Add on course : Botany in everyday life [DMCK/SFBOT/AD31/2022]

Objectives

- To learn the diverse human uses of plants and plant products.
- To learn the taxonomic diversity of useful plants.
- To learn the biological reasons why certain plant resources are important.



Features

- Theory & Practical Classes
- Exhibition

Report

As a part of our curriculum, we conduct an add on course ‘Botany in everyday life’ for our II PG students [2021-2023 Batch]. Students actively participated in this course. We arranged offline classes for the students. We also conducted an exhibition on economically important particles in our day to day life.

The specific objectives of the course was to learn the diverse human uses of plants and plant products, to learn the taxonomic diversity of useful plants, to learn the biological reasons why certain plant resources are important, to acquire an increased awareness and appreciation of plants and plant products encountered in everyday life, to recognize geographic, historical, & cultural differences in the uses and importance of plants, to relate diverse aspects of human cultural endeavors to plant resources, and to gain a better understanding and perspective of the origins, histories, and roles of important plants and plant products to the development of human culture. Certificates are distributed to the successful participants.

Objectives

- To learn the diverse human uses of plants and plant products.
- To learn the taxonomic diversity of useful plants.
- To learn the biological reasons why certain plant resources are important.
- To acquire an increased awareness and appreciation of plants and plant products encountered in everyday life.
- To recognize geographic, historical, & cultural differences in the uses and importance of plants.
- To relate diverse aspects of human cultural endeavors to plant resources, and to gain a better understanding and perspective of the origins, histories, and roles of important plants and plant products to the development of human culture

POST GRADUATE DEPARTMENT OF BOTANY

DEVAMATHA COLLEGE, KURAVILANGAD

ADD ON PROGRAMME – BOTANY IN EVERYDAY LIFE

Syllabus

Theory [25 Hrs]

Module 1 – Introduction [2 Hrs]

Introduction to the value based botanical world, scope of economic botany

Module 2 – Plants and plant products in everyday life [18 Hrs]

Botanical name, family, part used and their value-added products of listed plants

a. Cereals & Millets

Rice, Wheat, Maize, Barley, Oats, Ragi, Bajra, Jowar

b. Pulses & Legumes

Bengal gram, black gram, cow pea, green gram (mung bean), Kidney bean (Rajma),
Soya bean, red gram dal, winged bean, Lablab bean

c. Leafy vegetables & other vegetables

Amaranthus sepsis's, Beet greens, Cabbage, Carrot, Celery leaves, Colocasia leaves,
Coriander leaves, Curry leaves, Drumstick, Lettuce, Mint, Pumpkin, Tamarind leaves,
Onion, Potato, Radish, Sweet potato, Yam

Ash gourd, Beans, Bitter gourd, Bottle gourd, Brinjal, Cauliflower, Cucumber, Sponge
gourd, Chillies, Jack tender, Ivy gourd, Ladies finger, Mango green, Onion stalk,
Papaya green, Ridge gourd, Snake gourd, Water melon, Tomato, Vegetable marrow

d. Nuts & Oil seeds

Arecanut, Almond, Cashew nut, Chilgoza pine, Coconut, Gingelly seed, Ground nut,
Linseed, Mustard seed, Pistachio nut, Safflower seed, Sun flower, Walnut, Castor oil,
Avocado pear nut, Sal

e. Condiments & spices

Water melon seed, Asafoetida, Cardamom, Chillies, Cloves, Coriander, Cumin seed,
Garlic, Ginger, Mango powder, Nutmeg. Black pepper, Indian long pepper, Poppy seed,
Tamarind pulp, Turmeric, Garcinia, Vanilla, All spice

f. Fruits

Wild mango, Mango, Amla, Apple, Avocado pear, Bael fruit (*A. marmelous*), Banana, Bilimbi, Annona, Carambola, Orange, Cashew fruit, Cherries, Date palm, Grape, Guava, Jack fruit, Jamba fruit, Lemon, Litchi, Mangosteen, Mulberry, Papaya, Passion fruit, Pineapple, Pomegranate, Sapota, Strawberry, Jam, Common jujube, *Syzegium zeylanica*

g. Sugar & starch crops

Sugarcane, Sugar beet, Stevia (sugar plant), Starch crops – Potato, Tapioca, Rice, Sago palm, Palm sugar, Yam, Colocasia

h. Beverages

Alcoholic – Wines, Beer, Spirits, Distilled liquors

Non-alcoholic – Tea, Cocoa, Cola, Cassine, Coffee, Chicory, Kola, Yaco

i. Tannins, Gums & Resins

Oak bark, Pine, Bark valonia, Hemlock, Gambier marketing nuts

Gum Arabic, Tragacanth, Babul karaya, Bengal kino

Gum resins, Oleoresins, Lac-kauri, Dammar, Copal, Dragon's blood, Amber

j. Essential oils (Volatile oils)

Cananga odorata, Cinnamon, Citrus spp. Lemon grass, Ginger grass, Eucaly, Jasmine, Arabian jasmine, Lavender, Peppermint (*Pudina*), Champaca, Nutmeg, Chir pine, Sandal, Clove, Vetiver

k. Wax, Soap, substitutes & Insecticides

Carnauba, American myrtle, Soap nut, Pyrethrum, Barbasco, Tobacco

l. Fibres

Cotton, Coir, Deccan hemp, Jute, Sisal, Flax (linen), Kapok (silk cotton)

Paper making – Spruce, Pine, Fir, Larch, Bamboo, *Acacia mangium*

m. Woods

Teak, *Artocarpus* spp., Mahogany, Silver oak, Bamboo, Kalayam, Venga, Mulluvenga, Ilavu

n. Medicinal plants

Liquorice, Indian sarsaparilla, Chitraka (*Plumbago*), Serpentine, Ashwagandha, Asafoetida, Greater galanga, Turmeric, Mango ginger, Garlic, Asoka tree, Vasaka, Indiana aloe, Holy basil, Bel, Betel, Pepper, Belleric myrobalan, Chebula myrobalan,

Neem, Apple of Peru (Datura), Belladonna, Quinine, Foxglove, Ephedrine, Oppium, Nux vomica, Ergot, Antibiotics

Module 3 – Ethnobotany [5 Hrs]

Introduction to ethnobotany and Pharmacology

Cultural and medicinal plants used in the tribal settlements of Kerala

Plants used by them such as

Trichopus zeylanicus, Ochlandra travencorica, Dendrocalamus strictus, Gloriosa superba, Emilia sonchifolia, Andrographis paniculata, Alocasia macrorrhiza, Calamus rotang, Dioscoria oppositifolia, D. pentaphylla, Canarium strictum, Maranta arundinaceae, Vernonia anthelmentica, Adenia hondala, Asparagus recemosus

Scope and documentation of ethnobotanical data's

Practical [5 Hrs]

1. Collect and properly preserve the economically and ethnobotanically used plants or plant products
2. To conduct an exhibition of the economically and ethnobotanically used plants or plant products

References

1. Dr. Ashok Kr. Panigrahi and AlakaSahu, (2000), Glossary of useful and economically important plants, New central book agency (P) Ltd, Calcutta.
2. S. L. Kochhar, (1981, 1998), Economic botany in the tropics, 2nd Ed., Macmillan India Ltd., Delhi.
3. A.V.S.S. Sambamurthy and N.S. Subrahmanyam, (1998), A text book of modern economic botany, CBS publishers and distributors, New Delhi

Assessment Procedures

Class tests conducted for students to test the knowledge, skills, and aptitude acquired by the students.

Assessment criteria

Mark	Grade
8-10	A
6-7	B
4-5	C
2-3	D
0-1	E

Mark list

Sl.no.	Name of the student	Mark obtained [out of 10]
1.	ANEESHA DEVASIA	9
2.	ANJANAMOL	8
3.	ANN MARIYA THANKACHAN	8
4.	ARSHITHA S NAIR	9
5.	DIVYA HARI	9
6.	DON JOSE VARGHESE	8
7.	FATHIMA M I	9
8.	MARIYA THOMAS	10
9.	MARY YAMIN	8
10.	MEHARUNISA D S	10
11.	NAVYA TOM	9
12.	NIRANJANA MOHAN	9
13.	PRETTY GEORGE	8

14.	RAJASREE .T	10
15.	RESHMA .R	10
16.	SONA .P	8
17.	VENKATESH T. K	8

Course outcome

Co 1 - □ An understanding of plants as a source of food – emphasis on major food crops with respect to the following: requirements for human nutrition, the origin of agriculture, legumes, and starchy staples.

Co 2 - □ An understanding of commercial products derived from plants that provide us with consumable products such as beverages, herbs and spices, and materials such as cloth, paper, and wood.

Co 3 - □ An understanding of plants and human health - historical foundations of Western medicine, the practice of herbal medicine, poisonous and allergy plants, and the chemistry of secondary plant products

List of students

1. ANEESHA DEVASIA
2. ANJANAMOL
3. ANN MARIYA THANKACHAN
4. ARSHITHA S NAIR
5. DIVYA HARI
6. DON JOSE VARGHESE
7. FATHIMA MI
8. MARIYA THOMAS
9. MARY YAMIN
10. MEHARUNISA D S
11. NAVYA TOM
12. NIRANJANA MOHAN
13. PRETTY GEORGE

14. RAJASREE .T
15. RESHMA .R
16. SONA .P
17. VENKATESH T. K

Attendance sheet of student

POST GRADUATE DEPARTMENT OF BOTANY

DEVAMATHA COLLEGE, KURAVILANGAD

Add on course : Botany in everyday life [II PG]

Attendance list of students

Sl.no	Name	3hr	4hr	5hr	6hr	7hr	8hr	9hr
1	ANEESHA DEVASIA	AB	AB	AB	AB	AB	AB	AB
2	ANJANAMOL	AB	AB	AB	AB	AB	AB	AB
3	ANN MARIYA THANKACHAN	AB	AB	AB	AB	AB	AB	AB
4	ARSHITHA S NAIR	AB	AB	AB	AB	AB	AB	AB
5	DIVYA HARI	AB	AB	AB	AB	AB	AB	AB
6	DON JOSE VARGHESE	AB	AB	AB	AB	AB	AB	AB
7	FATHIMA MI	AB	AB	AB	AB	AB	AB	AB
8	MARIYA THOMAS	AB	AB	AB	AB	AB	AB	AB
9	MARY YAMIN	AB	AB	AB	AB	AB	AB	AB
10	MEHARUNISA D S	AB	AB	AB	AB	AB	AB	AB
11	NAVYA TOM	AB	AB	AB	AB	AB	AB	AB
12	NIRANJANA MOHAN	AB	AB	AB	AB	AB	AB	AB
13	PRETTY GEORGE	AB	AB	AB	AB	AB	AB	AB
14	RAJASREE T	AB	AB	AB	AB	AB	AB	AB
15	RESHMA R	AB	AB	AB	AB	AB	AB	AB
16	SONA P	AB	AB	AB	AB	AB	AB	AB
17	VENKATESH T. K	AB	AB	AB	AB	AB	AB	AB

Syamel Abraham (HOD)

Seekutty Sreedharan
(Course coordinator)

July




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Attendance list of students

Sl.no	Name	2/11/23	3/11/23	4/11/23	5/11/23	6/11/23	7/11/23	8/11/23
1	ANEESHA DEVASIA	Present	Present	Present	Present	Present	Present	Present
2	ANJANAMOL	Present	Present	AB	Present	Present	Present	Present
3	ANN MARIYA THANKACHAN	Present	Present	Present	Present	Present	Present	Present
4	ARSHITHA S NAIR	Present	Present	Present	Present	Present	Present	Present
5	DIVYA HARI	Present	Present	Present	Present	AB	AB	AB
6	DON JOSE VARGHESE	Present	Present	Present	Present	Present	Present	AB
7	FATHIMA M I	Present	Present	AB	Present	Present	Present	AB
8	MARIYA THOMAS	Present	Present	Present	Present	Present	Present	Present
9	MARY YAMIN	AB	AB	AB	AB	AB	AB	AB
10	MEHARUNISA D S	Present	Present	Present	Present	AB	Present	AB
11	NAVYA TOM	Present	Present	Present	Present	AB	Present	AB
12	NIRANJANA MOHAN	Present	Present	Present	Present	Present	Present	Present
13	PRETTY GEORGE	Present	Present	Present	Present	Present	Present	AB
14	RAJASREE T	Present	Present	Present	Present	Present	Present	AB
15	RESHMA R	Present	Present	Present	Present	AB	Present	Present
16	SONA P	Present	Present	Present	Present	Present	Present	AB
17	VENKATESH T. K	Present	Present	Present	Present	Present	Present	AB


Sujamal Abraham (HOD)

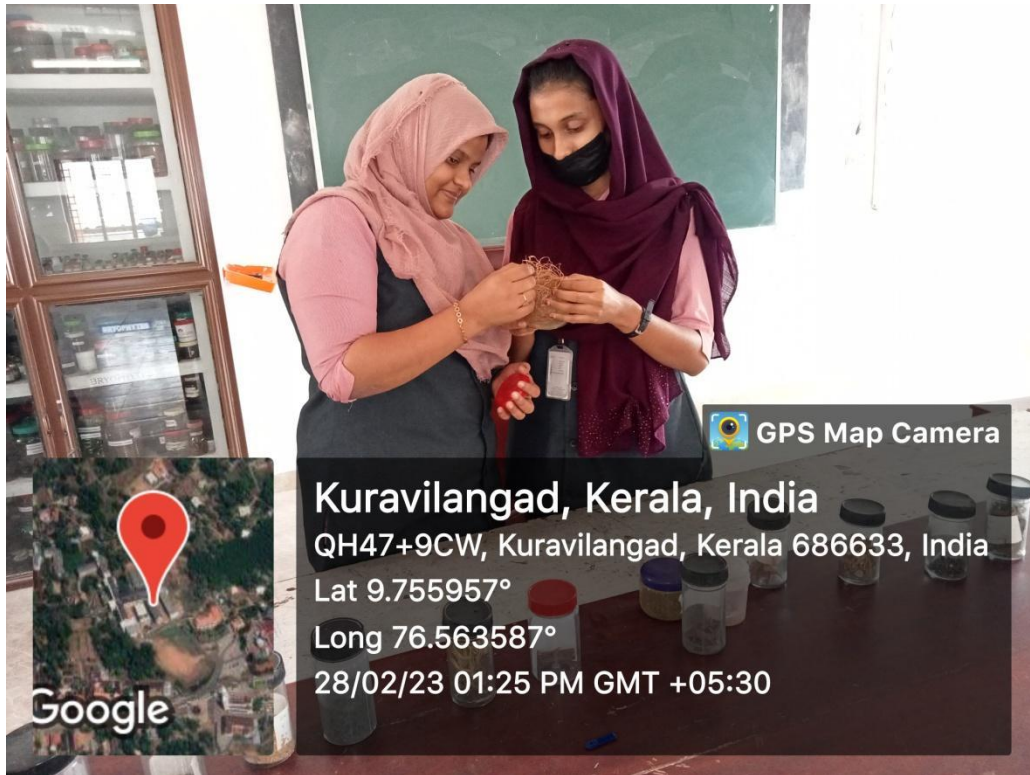
Sreedhthy Sreedhyan
(Course coordinator)

Sulu



Exhibition on economically important particles in our day to day life





Certificate

OPPO A16
2023/03/16 11:06
TRUTH WILL MAKE YOU FREE

DEVA MATHA COLLEGE KURAVILANGAD
Re-Accredited with 'A' Grade (CGPA 3.23) by NAAC in 2017
Affiliated to Mahatma Gandhi University, Kottayam
Website: www.devamatha.ac.in, E-Mail: principaldmck@gmail.com

Certificate

This is to certify that **Aneesha Devasia** has successfully completed the Add-on Programme titled **Botany in Everyday Life** (DMCK/ SFBOT/AD 31/2022) conducted by the PG Department of Botany (SF), Deva Matha College Kuravilangad during the academic year 2022-23 with 'A' grade.

Certificate No: 1016

Kuravilangad
13-03-2023

Ms. Sreekutty Sreedharan
Programme Co-ordinator

Ms. Arunima Sebastian
General Co-ordinator

Dr. Sunil C. Mathew
Principal



Feed Back

Feed back link : <https://forms.gle/2BYUhE29Ax8o848R7>

Timestamp	Score	Name	Email	Rate your overall experience of the course	The course met my expectations	How useful to you was this course	Do you have any suggestions/ comments	Do you have any suggestions/ comments	Based on the text above, your fourth question.
3/10/2023 12:46:40	1 / 2	Divya Hari	divyahari444@gmail.com	Good	Agree	Useful	Theory classes can be improved		
3/10/2023 12:46:45	2 / 2	Arshitha S Nair	arshithasnair@gmail.com	Very good	Agree	Useful	Need to improve practical section		
3/10/2023 12:46:45	1 / 2	Anjana mol	anjanabiju438@gmail.com	Good	Agree	Useful	Need to improve theory classes also have to improve practical skill based courses		
3/10/2023 12:47:03	1 / 2	Navya Tom	Navyatom.ntk@gmail.com	Good	Agree	Useful	Good sessions . Need to implement more career related subject		
3/10/2023 12:47:06	1 / 2	Aneesh Devasia	aneeshadevasia2018@gmail.com	Very good	Strongly agree	Useful	Improve theory period.	No.	
3/10/2023 12:47:55	2 / 2	Meharunisa D. S	meharunisads8@gmail.com	Very good	Agree	Useful	Improve practical section.		
3/10/2023 12:48:01	1 / 2	Niranjan Mohan	niranjananair1999@gmail.com	Good	Agree	Useful	Good sections	Good sections	

3/10/20 23 12:48:40	1 / 2	Rajasree T	rajasreeraju810@gmail.com	Good	Agree	Useful	Improve theory and practical session .		
3/10/20 23 12:48:42	1 / 2	Pretty George	prettygeorge158@gmail.com	Good	Agree	Useful	more interactive sections		
3/10/20 23 12:48:56	2 / 2	FATHIMA MI	fathimaijas216@gmail.com	Very good	Agree	Useful	To more interactive section .		
3/10/20 23 12:50:33	1 / 2	Ann mariya thankachan	annmariyathankachan97@gmail.com	Good	Agree	Useful	Improve practical and theory		
3/10/20 23 12:51:20	1 / 2	Don Jose Varghese	donhob11@gmail.com	Good	Agree	Useful	Everything is fine	No	

Name of the coordinator : Sreekutty Sreedharan

Department : PG Department of Botany

Dr. Brincy Mathew
Add-on Course General Coordinator



Principal
Deva Matha College
Kuravilangad - 686 633