

**POST GRADUATE DEPARTMENT OF BOTANY**  
**DEVA MATHA COLLEGE, KURAVILANGAD**

**Affiliated to Mahatma Gandhi University, Kottayam**



Add on course

Botany in everyday life [DMCK/SFBOT/AD/35/2021][ IIPG ]

2020-2022 BATCH

**Academic Year 2021-22**

**POST GRADUATE DEPARTMENT OF BOTANY**  
**DEVAMATHA COLLEGE, KURAVILANGAD**  
2020-2022 BATCH

Add on course : Botany in everyday life [DMCK/SFBOT/AD/35/2021]

[ IIPG ]

Academic year	:	2021-2022
Date(s) on which program conducted	:	January 2022 – March 2022
Collaborating agency inside or outside the institute	:	No
Beneficiaries	:	II PG students [2020-2022 BATCH ]
Number of teachers coordinated the program	:	1
Number of students participated in the program	:	22

## **Report**

As a part of our curriculum, we conduct an add on course ‘Botany in everyday life’ for our second PG students [2020-2022 Batch]. Students actively participated in this course. We arranged online and offline classes for the students.

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 everydaylife, 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.

## List of students

1. AMAL BIJU
2. AMALA SCARIA
3. AMRUTH JYOTHI P R
4. ANUSHA JESSY JOSEPH
5. ARATHI GOPAL V
6. AUGUSTUS PHILIP
7. DIVYA S BIJU
8. GREESHMA G NAIR
9. GREESHMA V A
10. JOMOL JOSE
11. LAKSHMI AJITH
12. NEGHA A SANTHOSH
13. NISSYMOL JOY
14. RESHMA RAJ A
15. ROBY J PLATHOTTAM
16. SHERSIA FAISY
17. SNESIYA SEPTA U V
18. SREEJITHA V
19. SREENANDANA K J
20. SRUTHIMOL SREEDHAR
21. UMA JITH
22. VEENA B

# Syllabus

## 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.

## 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, Syzgium 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 KeralaPlants used

by them such as

*Trichopus zeylanicus, Ochlandra travencorica, Dendrocalamus strictus, Gloriosa superba, Emilia sonchifolia, Andrographis paniculata, Alocasia macrorhiza, Calamus rotang, Dioscoria oppositifolia, D. pentaphylla, Canarium strictum, Maranta arandinaceae, 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 orplant products
2. To conduct an exhibition of the economically and ethnobotanically used plants orplant products

### **References**

1. Dr. Ashok Kr. Panigrahi and AlakaSahu, (2000), Glossary of useful and economicallyimportant plants, New central book agency (P) Ltd, Calcutta.
2. S. L. Kochhar, (1981, 1998), Economic botany in the tropics, 2<sup>nd</sup> Ed., Macmillan IndiaLtd., Delhi.
3. A.V.S.S. Sammbamurthy and N.S. Subrahmanyam, (1998), A text book of moderneconomic botany, CBS publishers and distributors, New Delhi.

### **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

Class conducted by Dr. C.T Chandralekha



## Attendance list of students

**POST GRADUATE DEPARTMENT OF BOTANY  
DEVAMATHA COLLEGE, KURAVILANGAD  
Add on course: Botany in everyday life [ II PG]**

**Attendance List of students**

Sl.no.	Name of the students	14/02/22 2hr.	15/02/22 2hr.	16/02/22 3hr.	21/02/22 2hr.	22/02/22 3hr.	23/02/22 2hr.	24/02/22 3hr.
1	AMAL BIJU	X	X	X	X	X	X	X
2	AMALA SCARIA	X	X	X	X	X	X	X
3	AMRUTH JYOTHI P R	X	X	X	X	X	Ab	Ab
4	ANUSHA JESSY JOSEPH	X	X	X	X	X	X	X
5	ARATHI GOPAL V	X	X	Ab	Ab	Ab	Ab	X
6	AUGUSTUS PHILIP	X	X	X	X	X	X	X
7	DIVYA S BIJU	X	X	X	X	X	X	X
8	GREESHMA G NAIR	Ab	X	X	X	X	X	X
9	GREESHMA V A	Ab	X	X	X	X	X	X
10	JOMOL JOSE	X	X	X	X	X	X	X
11	LAKSHMI AJITH	X	Ab	X	X	X	X	X
12	NEGHA A SANTHOSH	X	X	X	X	X	Ab	X
13	NISSYMOL JOY	X	X	Ab	X	X	X	X
14	RESHMA RAJ A	X	X	X	X	X	X	X
15	ROBY J PLATHOTTAM	X	X	X	X	X	X	X
16	SHERSIA FAISY	X	X	X	X	X	X	X
17	SNESIYA SEPTA U V	X	X	Ab	Ab	X	X	X
18	SREEJITHA V	X	X	Ab	X	X	Ab	X
19	SREENANDANA K J	X	X	X	X	X	X	X
20	SRUTHIMOL SREEDHAR	X	X	X	X	X	X	X
21	UMA JITH	Ab	X	X	X	X	X	X
22	VEENA B	Ab	X	X	X	X	X	X



POST GRADUATE DEPARTMENT OF BOTANY  
DEVAMATHA COLLEGE, KURAVILANGAD  
Add on course : Botany in everyday life [ II PG ]

Attendance List of students

Sl.no.	Name of the students	20/10/22	31/10/22	21/11/22	22/11/22	03/12/22	24/12/22	04/01/23		
1	AMAL BIJU	X	X	X	X	X				
2	AMALA SCARIA	X	X	X	X	X				
3	AMRUTH JYOTHI P R	Ab	Ab	Ab	Ab	Ab				
4	ANUSHA JESSY JOSEPH	X	X	X	X	X				
5	ARATHI GOPAL V	X	X	X	X	X				
6	AUGUSTUS PHILIP	X	X	X	X	X				
7	DIVYA S BIJU	X	X	X	X	X				
8	GREESHMA G NAIR	X	X	X	X	X				
9	GREESHMA V A	X	X	X	X	X				
10	JOMOL JOSE	X	X	X	X	X				
11	LAKSHMI AJITH	X	X	Ab	X	X				
12	NEGHA A SANTHOSH	X	Ab	X	X	X				
13	NISSYMOL JOY	X	X	X	X	X				
14	RESHMA RAJ A	X	X	X	X	Ab				
15	ROBY J PLATHOTTAM	X	X	X	X	X				
16	SHERSIA FAISY	X	X	X	X	X				
17	SNESIYA SEPTA U V	X	X	X	X	X				
18	SREEJITHA V	X	X	X	X	X				
19	SREENANDANA K J	X	X	X	X	X				
20	SRUTHIMOL SREEDHAR	X	X	X	X	X				
21	UMA JITH	X	X	X	X	X				
22	VEENA B	X	X	X	X	X				

## Certificate format

**DEVA MATHA COLLEGE, KURAVILANGAD**

Re-Accredited by NAAC with 'A' grade

Website : [www.devamatha.ac.in](http://www.devamatha.ac.in), E-Mail : [principaldmck@gmail.com](mailto:principaldmck@gmail.com)



### CERTIFICATE

This is to certify that .....has  
successfully completed the Add-on course titled : *Botany in everyday life* [ DMCK  
/SFBOT/AD 35/2021] conducted by Post Graduate Department of Botany, Deva Matha  
College, Kuravilangad during the academic year 2021-2022 with '.....' grade.

Ms. Sreekutty Sreedharan  
Course Co-ordinator

Dr. Brincy Mathew  
General Co-ordinator

Dr. Sunil C. Mathew  
Principal

Kuravilangad  
31-3-2022

## Examination details

### Mark list

Sl.no.	Name	Marks obtained [ out of 10 ]
1	AMAL BIJU	8
2	AMALA SCARIA	10
3	AMRUTH JYOTHI P R	10
4	ANUSHA JESSY JOSEPH	10
5	ARATHI GOPAL V	10
6	AUGUSTUS PHILIP	10
7	DIVYA S BIJU	10
8	GREESHMA G NAIR	8
9	GREESHMA V A	9
10	JOMOL JOSE	10
11	LAKSHMI AJITH	9
12	NEGHA A SANTHOSH	8
13	NISSYMOL JOY	10
14	RESHMA RAJ A	10
15	ROBY J PLATHOTTAM	10
16	SHERSIA FAISY	10
17	SNESIYA SEPTA U V	9
18	SREEJITHA V	9
19	SREENANDANA K J	10
20	SRUTHIMOL SREEDHAR	10
21	UMA JITH	10
22	VEENA B	10

# Add on course - Botany in everyday life

Attempts: 22

[Collapse all](#)

## What to include in the report

Attempts from

enrolled users who have attempted the quiz

Attempts that are

In progress  Overdue  Finished  Never submitted

Show at most one finished attempt per user (Highest grade)

Show only attempts

that have been regraded / are marked as needing regrading

## Display options

Page size

30

Marks for each question

Yes

Show report

Regrade all

Dry run a full regrade

Showing graded and ungraded attempts for each user. The one attempt for each user that is graded is highlighted. The grading method for this quiz is Highest grade.

[Reset table preferences](#)

First name  A B C D E E G H I J K L M N O P Q R S I U V W X Y Z

Surname  A B C D E E G H I J K L M N O P Q R S I U V W X Y Z

Download table data as

<input type="checkbox"/>	First name / Surname	ID number	State	Started on	Completed	Time taken	Grade/10.00	Q. 1 /1.00	Q. 2 /1.00	Q. 3 /1.00	Q. 4 /1.00	Q. 5 /1.00
	<b>Anusha Joseph</b> <a href="#">Review attempt</a>	P20BOTS204	Finished	11 April 2022 12:00 PM	11 April 2022 12:14 PM	13 mins 52 secs	<b>10.00</b>	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00

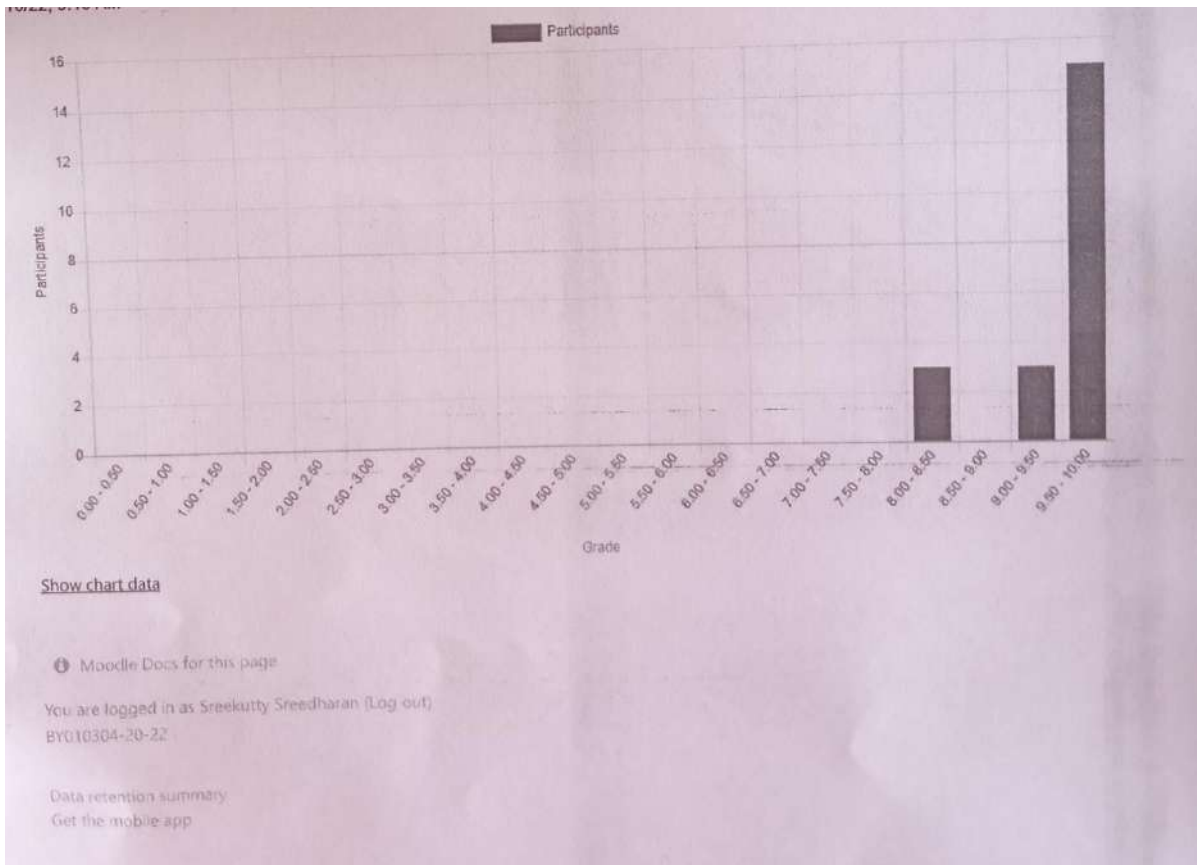
Add on course - Botany in everyday life

First name / Surname	ID number	State	Started		Time taken	Grade/10.00	Q.1	Q.2	Q.3	Q.4	Q.5
			on	Completed			/1.00	/1.00	/1.00	/1.00	/1.00
<input type="checkbox"/> <b>LAKSHMI AJITH</b> <i>Review attempt</i>	P20BOTS212	Finished	11 April 2022 12:00 PM	11 April 2022 12:09 PM	8 mins 54 secs	9.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00
<input type="checkbox"/> <b>Amala Scaria</b> <i>Review attempt</i>	P20BOTS202	Finished	11 April 2022 12:00 PM	11 April 2022 12:17 PM	17 mins 34 secs	10.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00
<input type="checkbox"/> <b>Negha Santhosh</b> <i>Review attempt</i>	P20BOTS213	Finished	11 April 2022 12:00 PM	11 April 2022 12:07 PM	7 mins 17 secs	8.00	✗ 0.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00
<input type="checkbox"/> <b>Augustus Philip</b> <i>Review attempt</i>	P20BOTS206	Finished	11 April 2022 12:00 PM	11 April 2022 12:05 PM	4 mins 46 secs	10.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00
<input type="checkbox"/> <b>Nissymol Joy</b> <i>Review attempt</i>	P20BOTS214	Finished	11 April 2022 12:00 PM	11 April 2022 12:15 PM	14 mins 53 secs	10.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00
<input type="checkbox"/> <b>Jamol Jose</b> <i>Review attempt</i>	P20BOTS211	Finished	11 April 2022 12:00 PM	11 April 2022 12:17 PM	17 mins 21 secs	10.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00
<input type="checkbox"/> <b>Greeshma Nair</b> <i>Review attempt</i>	P20BOTS209	Finished	11 April 2022 12:00 PM	11 April 2022 12:09 PM	8 mins 38 secs	9.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00
<input type="checkbox"/> <b>Greeshma VA</b> <i>Review attempt</i>	P20BOTS210	Finished	11 April 2022 12:00 PM	11 April 2022 12:12 PM	12 mins 19 secs	8.00	✓ 1.00	✓ 1.00	✗ 0.00	✓ 1.00	✓ 1.00
<input type="checkbox"/> <b>Uma Jith</b> <i>Review attempt</i>	P20BOTS222	Finished	11 April 2022 12:00 PM	11 April 2022 12:15 PM	14 mins 56 secs	10.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00
<input type="checkbox"/> <b>Roby J</b> <i>Review attempt</i>	P20BOTS216	Finished	11 April 2022 12:00 PM	11 April 2022 12:10 PM	10 mins 10 secs	10.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00
<input type="checkbox"/> <b>Arathi Gopal</b> <i>Review attempt</i>	P20BOTS205	Finished	11 April 2022 12:00 PM	11 April 2022 12:12 PM	11 mins 51 secs	10.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00





First name / Surname	ID number	State	Started on	Completed	Time taken	Grade/10.00	Q.1 /1.00	Q.2 /1.00	Q.3 /1.00	Q.4 /1.00	Q.5 /1.00
<input type="checkbox"/> <b>Sruthimol Sreedhar</b> Review attempt	P20BOTS221	Finished	11 April 2022 12:00 PM	11 April 2022 12:16 PM	15 mins 47 secs	10.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00
<input type="checkbox"/> <b>Divya Biju</b> Review attempt	P20BOTS208	Finished	11 April 2022 12:01 PM	11 April 2022 12:16 PM	15 mins 36 secs	10.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00
<input type="checkbox"/> <b>Amal Biju</b> Review attempt	P20BOTS201	Finished	11 April 2022 12:01 PM	11 April 2022 12:14 PM	13 mins 11 secs	8.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00
<input type="checkbox"/> <b>Reshma Raj</b> Review attempt	P20BOTS215	Finished	11 April 2022 12:01 PM	11 April 2022 12:14 PM	13 mins 6 secs	10.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00
<input type="checkbox"/> <b>SREENANDANA KJ</b> Review attempt	P20BOTS220	Finished	11 April 2022 12:01 PM	11 April 2022 12:17 PM	16 mins 2 secs	10.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00
<input type="checkbox"/> <b>Veena B</b> Review attempt	P20BOTS223	Finished	11 April 2022 12:01 PM	11 April 2022 12:14 PM	13 mins 17 secs	10.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00
<input type="checkbox"/> <b>Sreejitha V</b> Review attempt	P20BOTS219	Finished	11 April 2022 12:01 PM	11 April 2022 12:17 PM	15 mins 35 secs	9.00	✓ 1.00	✓ 1.00	✗ 0.00	✓ 1.00	✓ 1.00
<input type="checkbox"/> <b>Shersia faisy</b> Review attempt	P20BOTS217	Finished	11 April 2022 12:04 PM	11 April 2022 12:15 PM	11 mins 37 secs	10.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00
<input type="checkbox"/> <b>jiyothi PR</b> Review attempt	P20BOTS203	Finished	11 April 2022 12:08 PM	11 April 2022 12:16 PM	7 mins 43 secs	10.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00	✓ 1.00
<input type="checkbox"/> <b>Greeshma VA</b> Review attempt	P20BOTS210	Finished	11 April 2022 12:22 PM	15 April 2022 2:27 AM	3 days 14 hours	0.00	✗ =	✗ =	✗ =	✗ =	✗ =
<b>Overall average</b>						9.14 (22)	0.91 (22)	0.95 (22)	0.86 (22)	0.95 (22)	0.95 (22)



*Brincy Mathew*

Dr. Brincy Mathew  
Add-on Course General Co-Ordinator

*Amid Mathew*

Principal  
Deva Matha College  
Kuravilangad - 686 633