

DEPARTMENT OF BOTANY
DEVA MATHA COLLEGE, KURAVILANGAD

Affiliated to Mahatma Gandhi University, Kottayam



Report
ADD-ON COURSE
In
Plant Tissue Culture
Conducted for II DC Students
Academic Year: 2021-22



The Botany Department of Deva Matha College Kuravilangad has organised an Add-on Course in **Plant Tissue culture** for the II DC Botany students of the college.

33 students registered and successfully completed the course. The course was conducted during the months of February and March of 2022. Resource Persons who engaged the classes were renowned in the respective area. The course is of 30 hours duration including online sessions along with practical sessions. The course is planned and executed online via Google Classroom and live sessions are conducted through Google Meet platform. Evaluation process included attendance, test papers and spot tests.

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ADD ON COURSE in

DMCK/BOT/AD 01/2021:Plant Tissue Culture

Course Coordinator: **Ms. Varsha Maria Babu, Assistant Professor, Dept. of Botany**

Duration: **30 Hours**

Intake in a batch: **35**

Course Objectives

1. Understand the current developments in the field of Biotechnology
2. Equip the students to carry out plant tissue culture

SYLLABUS

1. **Brief history of tissue culture** 1 Hour
 - a. Cellular totipotency
 - b. Concept of dedifferentiation, redifferentiation and organogenesis
2. **Tissue culture media** 3 Hours
Media composition



Selection of media Media preparation	
3. Micropropagation	6 Hours
a. Selection of suitable material	
b. Stock plant selection	
c. Parts of plant	
d. Size of explants	
e. Avoid diseased tissue	
4. Types of plant tissue culture	3 Hours
Meristem culture	
Callus culture	
Anther culture	
Embryo culture	
Ovary culture	
Ovule culture	
Pollen culture	
5. Benefits of plant tissue culture	4 Hours
Rapid multiplication of clones	
Genetic uniformity	
Aseptic condition	
Controlled environment	
6. Outline of procedure and technique – Slide show	1 Hours
7. Practical	12 Hours

COURSE OUTCOMES

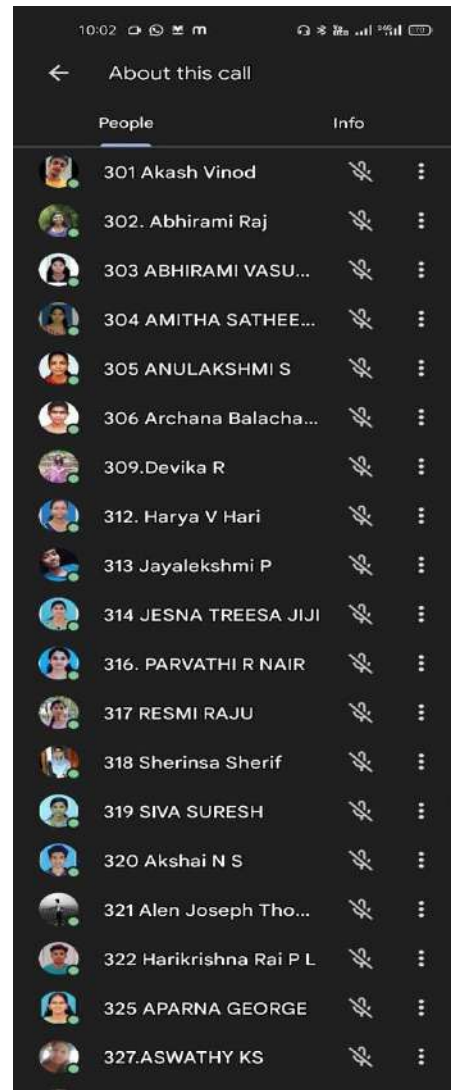
- Understand the basic concepts in plant tissue culture
- Discuss the process involved in micropropagation
- Analyse the practical use of tissue culture in life

RESOURCE PERSONS

- 1. Ms. Varsha Maria Babu**
Assistant Professor
Department of Botany
Deva Matha College, Kuravilangad
- 2. Dr. Varghese M.C.**
Assistant Professor & HOD
Department of Botany
Deva Matha College, Kuravilangad



PHOTOS OF LIVE SESSIONS





FEEDBACK

Timestamp	Name of the student	Class No.				State a benefit that you got from the course
			How will you rate the syllabus of the course?	How will you rate the content of the course?	Will you prefer an online or offline mode of learning?	
2022/05/15 11:02:38 AM GMT+5:30	Akshai ns	320	Satisfactory	Good	Offline	Lots of information about nature and making us close to nature
2022/05/15 11:06:49 AM GMT+5:30	Anulakshmi.S	20UG306	Excellent	Good	Offline	It's a good course
2022/05/15 11:09:13 AM GMT+5:30	Athira Rajendran	20UG308	Excellent	Good	Offline	Helped me to know more about the plants around our surroundings
2022/05/15 11:15:25 AM GMT+5:30	Abhirami raj	302	Good	Good	Offline	Botany mainly works in agriculture field and it also help us to study more about plants and its benefits.
2022/05/15 11:22:05 AM GMT+5:30	SIVA SURESH	20UG319	Good	Good	Offline	More knowledge about this particular subject.
2022/05/15 11:23:44 AM GMT+5:30	Aparna George	20UG325	Excellent	Excellent	Offline	
2022/05/15 11:26:28 AM GMT+5:30	Nissymol Sam	20UG-315	Excellent	Excellent	Online	
2022/05/15 11:29:30 AM GMT+5:30	HARIKRISHNA RAI P L	322	Excellent	Excellent	Online	
2022/05/15 11:31:53 AM GMT+5:30	Aswathyks	20ug327	Good	Good	Offline	
2022/05/15 11:32:32 AM GMT+5:30	Kalyani.A.S	20UG330	Excellent	Good	Offline	Get to know more about plants
2022/05/15 11:43:13 AM GMT+5:30	Jayalekshmi P	313	Excellent	Excellent	Offline	
2022/05/15 12:00:31 PM GMT+5:30	ARCHANA BALACHANDRAN	20UG306	Good	Good	Offline	Now i can study and realize the structure growth reproductuon and disease of plants
2022/05/15 12:03:27 PM GMT+5:30	Alen Joseph Thomas	321	Poor	Poor	Online	This course doesn't prvide any core values to the student nased on the subject of the course.
2022/05/15 12:06:44 PM GMT+5:30	Jasmin Johnson	329	Excellent	Excellent	Offline	Kerala
2022/05/15 12:10:37 PM GMT+5:30	Resmi Raju	20UG317	Good	Good	Offline	I would understand about various plants



SUDENTS LIST & MARK LIST

Sl. No.	Class no.	Name of the student	Marks (Out of 25)
1.	301	Akash Vinod	20
2.	302	Abhirami Raj	20
3.	303	Abhirami Vasudevan	23
4.	304	Amitha Satheesh	20
5.	305	Anulakshmi S	22
6.	306	Archana Balachandran	22
7.	307	Archana Raju	20
8	308	Athira Rajendran	25
9	309	Fathimabeevi P. S.	20
10	310	Gayathri Vinod	20
11	311	Harya V Hari	20
12	312	Jayalekshmi P	25
13	313	JesnaTreesa Jiji	25
14	314	Nissymol Sam	21
15	315	Parvathi R Nair	25
16	316	Resmi Raju	25
17	317	SherinsaSherif	21
18	318	Siva Suresh	25
19	319	Akshai N S	20
20	320	Alen Joseph Thomas	22
21	321	Harikrishnan	20
22	322	Harikrishna Rai P L	25
23	323	Harikrishnan V. J.	20
24	325	Aparna George	25
25	327	Aswathy K S	20
26	328	Devika R	20
27	329	Geethumol Joby	20
28	330	Jasmin Johnson	23
29	331	Kalyani A S	23
30	332	Poojamol T A	20
31	333	Shonima P S	21
32	334	Sreeparvathy Hari	23
33	335	Vishnupriya K. V.	23



SAMPLE CERTIFICATE


DEVA MATHA COLLEGE, KURAVILANGAD
CERTIFICATE
THIS IS TO CERTIFY THAT

.....
Department of.....has successfully completed the Add-on Course
titled '**Plant Tissue Culture**' (DMCK/BOT/AD 01/2021) conducted by the **Department of**
Botany of Deva Matha College, Kuravilangad during the academic year 2021-22 with
..... grade.

KURAVILANGAD
25/03/2022

DR. SUNIL C. MATHEW
Principal

MS. VARSHA MARIA BABU
Co-ordinator


DEVA MATHA COLLEGE, KURAVILANGAD
CERTIFICATE
THIS IS TO CERTIFY THAT

MS. VARSHA MARIA BABU
Assistant professor, Department of Botany has served as the **co ordinator** of the
Add-on Course titled '**Plant Tissue Culture**' (DMCK/BOT/AD 01/2021) organised by
the **Department of Botany** of Deva Matha College, Kuravilangad during the
academic year 2021-22.

KURAVILANGAD
25/03/2022

DR. SUNIL C. MATHEW
Principal



CONCLUSION

The Add-on Course in **Plant Tissue culture** was provided by the Botany Department of Deva Matha College Kuravilangad for the II DC Botany students of the college. 33 students registered and successfully completed the course. The course was conducted during the months of February and March of 2022. The course was executed online via Google Classroom and live sessions were conducted through Google Meet platform. Evaluation process included attendance, test papers and spot tests. Feedbacks were collected through Google forms. Certificates are distributed to the participants eligible as per the mode of evaluation including attendance, examination and spot tests.

Dr. Brincy Mathew
Add-on Course General Coordinator



Principal
Deva Matha College
Kuravilangad - 686 633