DEPARTMENT OF BOTANY



DEVA MATHA COLLEGE, KURAVILANGAD Affiliated to Mahatma Gandhi University, Kottayam

Report on

ADD-ON

COURSE

in Plant Tissue

Culture

Conducted for II DC Students

Assessment Year: 2023-24



BROCHURE



DEVA MATHA COLLEGE, KURAVILANGAD

DEPARTMENT OF BOTANY

OFFERS ADD ON COURSE ON

PLANT TISSUE CULTURE

2023-24

For II DC Botany students



ADD ON COURSE in

DMCK/BOT/AD 01/2023:Plant Tissue Culture

Academic year : 2023-2024

Title : DMCK/BOT/AD 01/2023: Plant Tissue Culture

Instructional Hours : 30 Hours

Duration : 2 Months

Mode of Instruction : **Offline**

Intake Capacity : 30

Eligibility : Plus Two or Equivalent

Beneficiaries : II DC Botany Students of Deva Matha College

Date(s) on which program was conducted : February 2024- March 2024

Collaborating agency inside/outside the institute : NA

Organizing Dept : Dept. of Botany

Name of the Coordinator : Ms. Varsha Maria Babu

Number of students participated in the programme: 09

Number of students completed the programme : 09



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Varsha Maria Babu Course Co ordinator Department of Botany



A BRIEF REPORT

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

9 students registered and successfully completed the course. The course was conducted during the months of February and March of 2024. Resource Persons who engaged the classes were renowned in the respective area. The course is of 30 hours duration. The course is planned and executed as both theory and practical sessions. A tissue culture laboratory is also made familiar to the students. Evaluation process included attendance, test papers and spot tests.

OBJECTIVES

- 1. To enable students to be familiar with the process of Tissue Culture
- 2. To exercise creation of tissue cultured plantlets.
- 3. To familiarize a tissue culture laboratory

12 Hours



7. Practical

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



ASSESSMENT PROCEDURES

Written examination – 60%

Practical involvement – 40%

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.

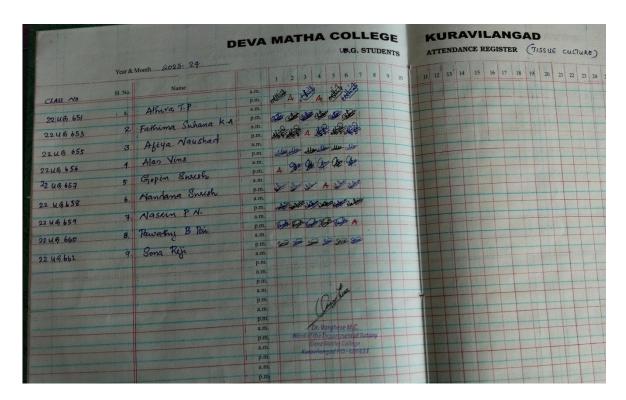
Assistant Professor & HOD Department of Botany Deva Matha College, Kuravilangad



LIST OF STUDENTS

Sl. No.	Class no.	Name of the student
1.	22UG 655	AFIYA NAUSHAD
2.	22UG 656	ALAN VINS
3.	22UG 651	ATHIRA T.P
4.	22UG 653	FATHIMA SUHANA K.A
5.	22UG 657	GOPIN SURESH
6.	22UG 658	NANDANA SURESH
7.	22UG 659	NASRIN P.N
8	22UG 660	PARVATHY B PAI
9	22UG 662	SONA REJI

ATTENDANCE SHEET





PHOTOS OF SESSIONS









MARKLIST OF THE EXAMINATION

Sl. No.	Class no.	Name of the student	Marks (Out of 25)
1.	22UG 655	AFIYA NAUSHAD	25
2.	22UG 656	ALAN VINS	20
3.	22UG 651	ATHIRA T.P	23
4.	22UG 653	FATHIMA SUHANA K.A	20
5.	22UG 657	GOPIN SURESH	20
6.	22UG 658	NANDANA SURESH	20
7.	22UG 659	NASRIN P.N	20
8	22UG 660	PARVATHY B PAI	25
9	22UG 662	SONA REJI	25



STUDENT'S FEEDBACK

MODEL CERTIFICATE



Certificate

Website: www.devamatha.ac.in, E-Mail: principaldmck@gmail.com

This is to certify that Afiya Naushad has successfully completed the Add-on Programme titled Plant Tissue Culture (DMCK/BOT/AD 01/2023) conducted by the Department of Botany, Deva Matha College Kuravilangad during the academic year 2023-24 with 'A' grade.

Kuravilangad 30-03-2024

01

Certificate No:

Ms.Varsha Maria Babu Programme Co-ordinator **Dr. Brincy Mathew** General Co-ordinator **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. 9 students registered and successfully completed the course. The course was conducted during the months of February and March of 2024. 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.