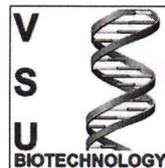




VIKRAMA SIMHAPURI UNIVERSITY
Nellore – 524 324, Andhra Pradesh
College of Science & Technology
DEPARTMENT OF BIOTECHNOLOGY
(DST-FIST Sponsored Department)



Dr.Uday Sankar Allam
Head

DDC RESOLUTIONS

Minutes of the Meeting of Department Development Committee held on 29/02/2024 at 10:30 A.M in the Department of Biotechnology, VSU, Nellore

Members Present

S.No	Name of Faculty Member	Designation
1	Prof. G. Vijaya Anand Kumar Babu	Professor
2	Dr. C. Kiranmai	Assistant Professor
3	Dr. Uday Sankar Allam	Assistant Professor
4	Dr. G. Mary Sandeepa	Assistant Professor
5	Dr. KVL Shrikanya Rao	Assistant Professor
6	Dr. SB Sainath	Assistant Professor
7	Dr. K. Vidya Prabhakar	Assistant Professor

Agenda

To discuss about the introduction of Value Added Course paper entitled “Plant Tissue Culture & Its Applications” in the Department of Biotechnology, Vikrama Simhapuri University, Nellore.

Resolutions :

- The DDC recommends that the Value Added Course should start in Department of Biotechnology on “Plant Tissue Culture & Its Applications” from 12th March, 2024.
- It is resolved that classwork may be taken every day evening.
- It is resolved duration of the course is 36Hrs
- After completion of the course, certificate may be issued.

Signatures of the Members

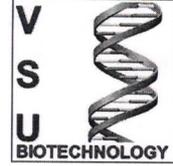
S.No	Name of Faculty Member	Signature
1	Prof. G. Vijaya Anand Kumar Babu	
2	Dr. C. Kiranmai	
3	Dr. Uday Sankar Allam	
4	Dr. G. Mary Sandeepa	
5	Dr. KVL Shrikanya Rao	
6	Dr. SB Sainath	
7	Dr. K. Vidya Prabhakar	— Absent —

HEAD

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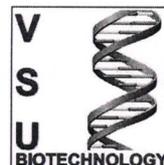
Dr.Uday Sankar Allam
Head

Date : 02.03.2024

CIRCULAR

This is to inform you that the class work of Value Added Classes on “Plant Tissue Culture & Its Applications” for the academic year 2023-2024 starts from 12th Mar 2024 in the Department of Biotechnology, Vikrama Simhapuri University, Nellore. The classes runs on every day from 5.30 P.M to 6.30 P.M. The students who are desirous to attend the classes are advised to make note of the above schedule and follow accordingly. For any details or clarifications, contact the Head of the Department.

HEAD
Department of Biotechnology
College of Science & Technology
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NELLORE - 524 001. A.P. INDIA.



Dr. Uday Sankar Allam
Head

PLANT TISSUE CULTURE & ITS APPLICATIONS SYLLABUS

THEORY	36 HOURS	2 CREDITS
COURSE INSTRUCTOR: Dr. C. KIRANMAI ASSISTANT PROFESSOR IN DEPARTMENT OF BIOTECHNOLOGY		
<p>Course Objectives: This course will give a brief understanding of various methods and applications involved in Plant Tissue Culture in crop improvement with the following objectives.</p> <ol style="list-style-type: none">1. To understand concepts and techniques in plant tissue culture,2. To know concepts on production of secondary metabolites and its enhancement, <p>Course Learning Outcomes (CLO): On completion of this course, students should be able to</p> <ol style="list-style-type: none">1. Learn concepts and techniques in plant tissue culture,2. Learn concepts of production of secondary metabolites and its enhancement,3. Explain in vitro culture methods and applications,		

UNIT-I: CONCEPTS & TECHNIQUES IN PLANT TISSUE CULTURE

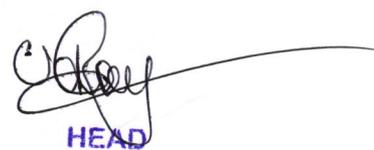
Totipotency; Tissue culture media; Plant hormones and morphogenesis; Direct and indirect organogenesis; Direct and indirect somatic embryogenesis; Applications of plant tissue culture – Micropropagation of field and ornamental crops; National certification and Quality management of TC plants; Virus elimination by meristem culture, meristem tip culture and micrografting; Virus indexing – PCR, ELISA; Nucleic acid hybridization and electron microscopy; Artificial seeds. In vitro germplasm storage and cryopreservation.

UNIT-II: IN VITRO CULTURE METHODS & APPLICATIONS

Callus culture and in vitro screening for stress tolerance; Large-scale cell suspension culture - Production of alkaloids and other secondary metabolites - techniques to enhance secondary metabolite production; Biotransformation, Protoplast culture - isolation and purification; Protoplast culture; Protoplast fusion; Somatic hybridization - Production of Somatic hybrids and Cybrids – Applications; Somaclonal and gametoclonal variations – causes and applications

PRACTICALS

1. Preparation of plant tissue culture media
2. Surface sterilization of explants
3. Callus induction, propagation, organogenesis, transfer of plants to soil
4. Induction of somatic embryogenesis
5. Cytological examination of regenerated plants
6. Establishment of cell suspension cultures for plant secondary metabolite production
7. Encapsulation of somatic embryos and production of synthetic seeds


HEAD

5.30P.M to 6.30P.M

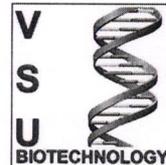
Student Name	Roll Number	12-03-2024	13-03-2024	14-03-2024	15-03-2024	16-03-2024	18-03-2024	19-03-2024	20-03-2024	21-03-2024	22-03-2024	23-03-2024	25-03-2024	26-03-2024	27-03-2024	28-03-2024	30-03-2024	01-04-2024	02-04-2024	03-04-2024	04-04-2024	05-04-2024	06-04-2024	08-04-2024	11-04-2024	12-04-2024	13-04-2024	15-04-2024	16-04-2024	17-04-2024	18-04-2024	19-04-2024	20-04-2024	22-04-2024	23-04-2024	24-04-2024	25-04-2024			
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Copy

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Dr. Uday Sankar Allam

M.Sc. (IARI), Ph.D. (IISc), PDF (UMich-USA)

Mobile: +91-8187814140

Email: vsuusareddy@gmail.com

Code : BT PTC VAC

Title : **Plant Tissue Culture & Its Applications**

List of students enrolled in the value-added course entitled “Plant Tissue Culture & Its Applications” during the period from March – 2024

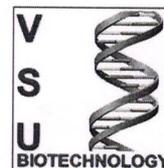
S.NO	H.T NO	NAME OF THE STUDENTS	PROGRAM
1	220407001001	GUNDUPAKA MAHESH	M.Sc. Biotechnology
2	220407001002	AVULA RAMYA SREE	M.Sc. Biotechnology
3	220407001003	BANDILA PAVAN KALYAN	M.Sc. Biotechnology
4	220407001004	JADAV GANESH RAO	M.Sc. Biotechnology
5	220407001005	D SUDHA KRISHNA	M.Sc. Biotechnology
6	220407001006	VENNAM SWATHI	M.Sc. Biotechnology
7	220407001007	MEKA DEEPIKA	M.Sc. Biotechnology
8	220407001008	BADANAPURI BHARATHI	M.Sc. Biotechnology
9	220407001009	JOSYULA MAHALAKSHMI PRIYANKA	M.Sc. Biotechnology
10	220407001010	KOTTOLLA ARCHANA	M.Sc. Biotechnology
11	220407001011	KUNDANAGURTHI UMESH	M.Sc. Biotechnology
12	220407001012	SYED SAEEDA FARHEEN	M.Sc. Biotechnology
13	220407001013	MACHIREDDY RISHITHA	M.Sc. Biotechnology
14	220407001014	MALLIREDDY SAI CHARAN	M.Sc. Biotechnology
15	220407001015	MAMATHA	M.Sc. Biotechnology
16	220407001016	MATHANGI HARIPRIYA	M.Sc. Biotechnology
17	220407001017	NARRAVULU MOKSHITHA	M.Sc. Biotechnology
18	220407001018	NELAPATI NAVEEN KUMAR	M.Sc. Biotechnology
19	220407001019	PADETI THIRUPATAIAH	M.Sc. Biotechnology
20	220407001020	KODAVATIKANTI VIVEKANAND	M.Sc. Biotechnology
21	220407001021	SADDALA NIRMALA DEVI	M.Sc. Biotechnology
22	220407001022	SHAIK HAZI BASHA	M.Sc. Biotechnology
23	220407001023	SHAIK KARIMULLA	M.Sc. Biotechnology
24	220407001024	SHAIK MOHASINA	M.Sc. Biotechnology
25	220407001025	SHAIK CHANDINI	M.Sc. Biotechnology
26	220407001026	TANGATURI SAMPATH KUMAR REDDY	M.Sc. Biotechnology
27	220407001027	THOVI SAIRAJ	M.Sc. Biotechnology
28	220407001028	SAKALA BHAKTULA ANITHA	M.Sc. Biotechnology
29	220407001029	ALLISAHEBGARI MAHAMMAD RABBANI	M.Sc. Biotechnology
30	220407001030	PALLE RUPASRI	M.Sc. Biotechnology
31	220407001031	NALLI ROJA RANI	M.Sc. Biotechnology
32	220407001032	SHAIK ROSHNA	M.Sc. Biotechnology
33	220407001033	SHAIK THOUSEEN SULTHANA	M.Sc. Biotechnology
34	220407001034	SHAIK MUSKAN	M.Sc. Biotechnology
35	220407001035	PULLA ALEKYA	M.Sc. Biotechnology
36	220407001036	VELURI RAGA PRIYA	M.Sc. Biotechnology
37	220407001037	MORAM VINEETHA	M.Sc. Biotechnology


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Mobile: +91-8187814140

Email: vsuusareddy@gmail.com

Code : BT PTC VAC

Title : Plant Tissue Culture & Its Applications

List of students enrolled in the value-added course entitled “Plant Tissue Culture & Its Applications” during the period from March – 2024

S.NO	H.T NO	NAME OF THE STUDENTS	PROGRAM
1	220410001001	AJIMRA JYOTHI BAI	M.Sc. Microbiology
2	220410001002	BANDLAMUDI MEGHANA	M.Sc. Microbiology
3	220410001003	CHIPPALAPALLI CHARITHA	M.Sc. Microbiology
4	220410001004	ANNEM VAMSI KRISHNA TEJA	M.Sc. Microbiology
5	220410001005	GONA BARNABA	M.Sc. Microbiology
6	220410001006	GOSALA ALEXA	M.Sc. Microbiology
7	220410001007	KONDURU ROHINI	M.Sc. Microbiology
8	220410001008	KUMMARAGUNTA KEERTHI	M.Sc. Microbiology
9	220410001009	AVASANI KARTHEEK	M.Sc. Microbiology
10	220410001010	MOIDA KATYAYANI	M.Sc. Microbiology
11	220410001011	PASALA SARANYA	M.Sc. Microbiology
12	220410001012	KARRA ANUPALLAVI	M.Sc. Microbiology
13	220410001013	SHAIK KAJOL	M.Sc. Microbiology
14	220410001014	SURAMPUDI S V N D M MANOGNA	M.Sc. Microbiology
15	220410001015	KOKKIRALA DURGA NAGA SRINIVAS	M.Sc. Microbiology
16	220410001016	KOMMU SADANJANEYA	M.Sc. Microbiology
17	220410001017	THATI KIRAN KUMAR YADAV	M.Sc. Microbiology
18	220410001018	VAYALA ANITHA	M.Sc. Microbiology
19	220410001019	VEMULA SAI	M.Sc. Microbiology
20	220410001020	KUTHALA SOMUTEJA	M.Sc. Microbiology
21	220410001021	NARAY PALLAVI	M.Sc. Microbiology
22	220410001022	PRUDHVI BINDU MADHURI	M.Sc. Microbiology
23	220410001023	RAVINUTHALA AHALYA	M.Sc. Microbiology
24	220410001024	THATIKONDA ANIL	M.Sc. Microbiology
25	220410001025	CHINNI PRADEEP	M.Sc. Microbiology
26	220410001026	SYED MIZBA SULTHANA	M.Sc. Microbiology
27	220410001027	PUTTA LASYA	M.Sc. Microbiology
28	220410001028	KONDURU LAVANYA	M.Sc. Microbiology
29	220410001029	SHAIK AKRAM	M.Sc. Microbiology
30	220410001030	TURAKA SWATHI	M.Sc. Microbiology
31	220410001031	MODIBOINA SIVA KRISHNA	M.Sc. Microbiology
32	220410001032	NETHI VENKATA MAMATHA	M.Sc. Microbiology
33	220410001033	BHAJANTRI PRABHU DEVA	M.Sc. Microbiology

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