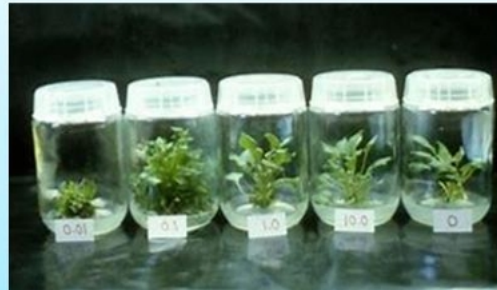


Course Name: Conal propagation
Course code: VAC BT 106
Duration: 01.05.2018 – 06.05.2018



Course offered by:
Department of Biotechnology
VALUE ADDED COURSES
SESSION 2017-18



Conal propagation

Objectives:

Rapidly multiplying stock plant material to produce a large number of progeny plants, using modern plant tissue culture

Coordinator Name: Dr. Amit Kumar
Designation: Assistant Professor
Department: Biotechnology, : KVSCOS, SVSU, Meerut
Email ID: amit.agbiotech1581@gmail.com
Ph No: 8267010205

VALUE ADDED COURSES Session 2017-18 REGISTRATION FORM

REGISTRATION FORM

Name:.....

Enrolment No:.....

Program:.....

Sem. & Year:.....

Contact No./Mobile:.....

E-mail:.....

Course Opted:.....

Course Code:.....

Signature with date:.....

Coordinator Name: Dr. Amit Kumar
Designation: Assistant Professor
Department: Biotechnology, KVSCOS, SVSU, Meerut
Email ID: amit.agbiotech1581@gmail.com
Ph No: 8267010205

Course Schedule

01.05.2018 – 06.05.2018

8.30 am – 12.30 pm
2.00 pm 4.00 pm

Name of Value Added Course: Conal propagation
Course Code: VAC-BT-106
Time: 30hrs

Course Objectives: To acquaint the students about the application of biotechnology in plant science

Course Contents:

Unit -I:

Conal propagation of plants, Protoplast isolation and culture, somatic hybridization, Production of industrially important metabolites in plant culture, Cyropreservation ,transport of germplasm (semen ,ovum embryo).

Unit-II:

Terminology used in cell culture, Aseptic cell culture techniques, Tissue culture lab: Basic requirements. Techniques of suspension culture.

Unit -III:

Concept of totipotency, Primary and established cell lines.

Unit-IV:

Transgenic plants: Bt genes , Biofertilizers, resistance to herbicides, fungal viral pathogens, environmental stress.

Unit-V:

Agrobacterium and virus mediated direct transfer methods.

Course outcome: At the end of the course, a student would be able to –

- Definition of Biotechnology and different branches of Biotechnology
- Discussion of scope, history and achievement of Biotechnology
- Applications of PCR, Role of enzymes involved in Genetic Engineering
- Distinguish between vectors and the applications
- Create cDNA library and Genomic library
- Assess the use of molecular markers in Plants

Recommended Books

1. Applied plant biotechnology-Ignacimuthu, Tata McGraw Hill New Delhi.
2. Horizons of Biotechnology: B.D. Singh : Kalyani publications
3. An introduction to plant tissue culture: M .K. Razdan Elsevier publication
4. Biotechnology and genomics: P.K. Gupta
5. Plant tissue culture: S .S Bhojwani and M.k. Razdan Elsevier publication



Registrar
Swami Vivekanand
Subharti University
MEERUT

Ref. No. - KVSCOS/BT/2018/VAC - 54

DEPARTMENT OF BIOTECHNOLOGY

Report on Value Added Course

A one week value added course on CLONAL PROPAGATION was conducted in the department for UG students. The course starts on 01-05-2018 and 43 students registered themselves in the course. The sessions were handled by course coordinator Dr. Anil Kumar for improving the skills of the students in modern plant tissue culture.

The course was completed on 06-05-2018 and all the 43 students registered for the course completed the course. Students felt that the course was very much helpful and it provided them with basic knowledge on rapidly multiplying stock plant material to produce a large number of plants.



HOD

Department of Biotechnology



Registrar
Swami Vivekanand
Subharti University
MEERUT

List of Students attending Value added course

Sl. No	Name of the Students
1.	Aakhya Tyagi
2.	Amit Kumar
3.	Ankit Kumar
4.	Ankur
5.	Apurva Pandey
6.	Bindu Agarwal
7.	Charu Shridhar
8.	Fauzia Khan
9.	Karnika Rajmurti
10.	Km. Rasika
11.	Manjeet
12.	Nisha Chauhan
13.	Rahul Chaudhary
14.	Rinky Choudhary
15.	Shivani Tyagi
16.	Shreesh Sharma
17.	Tannu Chandra
18.	Vidushi Chaudhary
19.	Akash Verma
20.	Jahangir Khan
21.	Kanchan Pal
22.	Kirti Avinash
23.	Km. Minakshi Yadav
24.	Km. Preeti Saini
25.	Monika Tivari
26.	Mukarram
27.	Reetika Chaudhary
28.	Sanjana Chaudhary
29.	Shallu
30.	Shan Mohd
31.	Vanshika Tyagi
32.	Yashvi Chaudhary
33.	Akshay
34.	Annu
35.	Anushka
36.	Faisal Salmani
37.	Malsawmtluangi
38.	Rashmi
39.	Vivek Sagar
40.	Atul Kumar
41.	Deepa
42.	Keshav Tyagi
43.	Nidhi Yadav


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CERTIFICATE OF COMPLETION

Organized by
Department of Biotechnology,
Keral Verma Subharti College of Science

This is to certify that..... Rahul Chaudhary *Class...* B.Sc Biotechnology
Department/College..... Biotechnology, KVSCOS *has successfully*
completed the Value Added Course entitled "Clonal Propagation" during, 01.05.2018 to
06.05.2018.

उत्तिष्ठतः जाग्रतः प्राप्य वरान्निबोधत

Rekha Dixit

Dr. Rekha Dixit
(HOD)

Amit Kumar

Dr. Amit Kumar
(Coordinator)

Registrar
Swami Vivekanand
Subharti University
MEERUT