

Course Name: Fundamentals of organic farming

Course code: VAC BT 104

Duration: 13.12.2017 – 18.12.2017



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



Fundamentals of organic farming

Objectives:

Conserving environment and natural resources, re-establishing ecological balance, encouraging sustainable agriculture, improving soil fertility.

Coordinator Name: Dr Rekha Dixit
Designation: Associate Professor
Department: Biotechnology, KVSCOS, SVSU, Meerut
Email ID: rekhadixit@rediffmail.com
Ph No: 7906246921

**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 Rekha Dixit
Designation: Associate Professor
Department: Biotechnology, KVSCOS, SVSU, Meerut
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Course Schedule

13.12.2017 - 18.12.2017

8.30 am – 12.30 pm
2.00 pm 4.00 pm

Name of Value Added Course: **Fundamentals of organic farming**
Course Code: **VAC-BT-104**
Time: **30hrs**

Objective

To acquaint the students about organic farming and their importance in human and soil health.

Unit 1:

Organic farming – Green manuring and organic fertilizers, Recycling of bio-degradable municipal, agricultural and Industrial wastes – biocompost making methods, types and method of vermicomposting – field Application.

Unit 2:

Azospirillum: isolation and mass multiplication – carrier based inoculant, associative effect of different microorganisms. *Azotobacter*: classification.

Unit 3:

Cyanobacteria (blue green algae), *Azolla* and *Anabaena azollae* association, nitrogen fixation, factors affecting growth, blue green algae and *Azolla* in rice cultivation.

Unit 4:

Mycorrhizal association, types of mycorrhizal association, taxonomy, occurrence and distribution, phosphorus nutrition, growth and.

Unit 5:

General account about the microbes used as biofertilizer – Rhizobium – isolation, identification, mass multiplication, carrier based inoculants, Actinorrhizal symbiosis.

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

- Gain **knowledge** of microbes used as biofertilizer.
- **Discuss** the role of microbes in agriculture.
- **Classify** and **illustrate** biofertilizer.

SUGGESTED READING:

Recommended Books:

1. Dubey, R.C., 2005 A Text book of Biotechnology S.Chand & Co, New Delhi.
2. Kumaresan, V. 2005, Biotechnology, Saras Publications, New Delhi.
3. John Jothi Prakash, E. 2004. Outlines of Plant Biotechnology. Emkay Publication, New Delhi.
4. Sathe, T.V. 2004 Vermiculture and Organic Farming. Daya publishers.
5. Subha Rao, N.S. 2000, Soil Microbiology, Oxford & IBH Publishers, NewDelhi.
6. Vayas,S.C., Vayas, S. and Modi, H.A. 1998 Bio-fertilizers and organic Farming Akta Prakashan, Nadiad

Registrar
Swami Vivekanand
Subharti University
MEERUT

Ref. No. - KVFOS/BT/2017/YAC-48

DEPARTMENT OF BIOTECHNOLOGY

Report on Value Added Course

A one week value added course on FUNDAMENTALS OF ORGANIC FARMING was conducted in the department for UG students. The course starts on 13-12-2017 and 52 students registered themselves in the course. The sessions were handled by course coordinator Dr Rekha Dixit, for improving the technical skills of the students on organic farming. The course was completed on 18-12-2017 and all the 52 students registered successfully completed the course. Students felt that the course was very much helpful and they got the basic knowledge on technology used for organic farming.

Rekha Dixit

HOD

Department of Biotechnology



List of Students attended Value Added Course

Sl.no	Name of 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
44.	Pooja Sharma
45.	Simran Gulati

46.	Sorabh Kumar
47.	Teetu Chauhan
48.	Vansh Teotia
49.	Varsha Sharma
50.	Vijay Lukshmi
51.	Vinit Kumar
52.	Yash Tyagi

Rekha Dixit
Dr. Rekha Dixit
(HOD)



Registrar
Swami Vivekanand
Subharti University
MEERUT



Swami Vivekanand Subharti University, Meerut

CERTIFICATE OF COMPLETION

Organized by
**Department of Biotechnology,
Keral Verma Faculty of Science**

This is to certify that..... Vidushi Chaudhary *Class...* B.Sc Biotechnology
Department/College..... Biotechnology, KVSCOS..... *has successfully*
completed the Value Added Course entitled "Fundamental of Organic farming" during,
13.12.2017 to 18.12.2017.

उत्तिष्ठतः जाग्रतः प्राप्य वरान्निबोधत

Rekha Dixit
Dr. Rekha Dixit
(HOD)

Rekha Dixit
Dr. Rekha Dixit
(Coordinator)