

Organic Farming and Cultivation

Course Name: Organic farming and Cultivation

Course code: VAC BT 104

Duration: 03.05.2017 – 08.05.2017



**Course offered by:
Department of Biotechnology
VALUE ADDED COURSES
SESSION 2016-17**



Organic farming and cultivation

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, KVFOs, SVSU, Meerut

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Name of Value Added Course: **Organic farming and Cultivation**
Course Code: **VAC-BT-104**
Time: **30hrs**

Objective

To acquaint the students about the use of microbes in farming and organic fertilizers and their importance in agriculture.

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:

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

Unit 3:

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

Unit 4:

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

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

Ref No - KVFO3/BT/2017/VAC-34

DEPARTMENT OF BIOTECHNOLOGY

Report on Value Added Course

A one week value added course on ORGANIC FARMING AND CULTIVATION was conducted in the department for UG students. The course starts on 03-05-2017 and 45 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 08-05-2017 and all the 45 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



Students attending Value added Course


List of Students completed VAC

Session: 2016-17

Name of Value-Added Course: **Organic farming**

Course Code: **VAC BT 104**

S. No.	Enrollment No.	Name of Students
1	1606020002277	ANITA SHARMA
2	1606020002323	SACHIN
3	1319100413	ANNU
4	1606020002281	ANUJ KUMAR
5	1606020002287	DIMPLE SINGH RANA
6	1606020002292	GURUMAYUM ROCKY SHARMA
7	1606020002294	KARUNA GIRI
8	1606020002303	KM. ALISHA
9	1606020002297	KM. SALONI TYAGI
10	1606020002309	MAHD ZUAIB
11	1606020002316	PANKAJ SHARMA
12	1319100432	RAKIB MALIK
13	1606020002324	SACHIN SHARMA
14	1606020002328	SHALINI SHRIVASTVA
15	1606010002080	AMISHA PANWAR
16	1606010002104	KANIKA KASHYAP
17	1606010002108	KM. DIMPY MALHOTRA
18	1606010002113	KM. SHAGUN BHARDWAJ
19	1606010002159	SONAL GHANSAL
20	1606010001825	ABHISHEK TRIPATHI
21	1606010001840	ANIKA SINGH
22	1606010001842	ANKIT VERMA
23	1606010001844	ANKUR VIKAL
24	1606010001856	ASHISH KUMAR
25	1606010001860	BABAR
26	1606010001861	BHURA
27	1606010001862	CHHAVI
28	1606010001885	HARIS ANSARI
29	1606010001903	KAPIL
30	1606010001912	KM SONIYA JOSHI
31	1606010001914	KM. LIPIKA
32	1606010001917	KM. SHALU
33	1606010001919	KM. SHIVANI
34	1606010001933	MANPREET KAUR
35	1606010001939	MD. SUHAIL
36	1606010001943	MOHD RASHID
37	1606010001945	MOHD USMAN
38	1606010001948	MOHIT KAPASIYA
39	1606010001953	MONEY DHANKARD
40	160601860200155	NEHA CHAUDHARY
41	1606010001961	NIKHIL KUMAR
42	1606010001967	NISHA IRSHAD
43	1606010001969	NISHU KUMARI
44	160601001969	NISHU SAINI
45	1606010001976	PAWAN PAL


Dr. Rekha Dixit
(Coordinator)


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..... Shalini Shrivastva..... *Class...* B.Sc Biotechnology
Department/College..... Biotechnology, KVFOS*has successfully*
completed the Value Added Course entitled "Organic farming and Cultivation" during,
03.05.2017 to 08.05.2017.

उत्तिष्ठतः जाग्रतः प्राप्य वरान्निबोधत

Rekha Dixit
Dr. Rekha Dixit
(HOD)

Rekha Dixit
Dr. Rekha Dixit
(Coordinator)