Course Name: Basics of Food Biotechnology

Course code: VAC BT 108

Duration: 14.05.2018 - 19.05.2018



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



Basics of Food Biotechnology

Objectives:

The purpose of the course is to develop specialised knowledge of Food Biotechnology and the skills applicable in either industrial or university research environment

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

14.05.2018 - 19.05.2018

8.30 am - 12.30 pm 2.00 pm 4.00 pm Name of Value Added Course: Basics of Food Biotechnology

Course Code: VAC-BT-108

Time: 30hrs

Course Objectives: The purpose of the course is to develop specialised knowledge of Food Biotechnology and the skills applicable in either industrial or university research environment.

Course Contents:

UNIT I:

Historical Background, Composition of Food, Improvement of food resources through Biotechnology (e.g. Golden Rice, Potato etc.). Traditional fermented foods.

UNIT II:

Fermented milk, Cheese, Butter, Yoghurt Alcoholic beverages (Beer, Wine, Whisky), Sauerkraut, Pickles, Soy products, Tea, coffee etc.

UNIT III:

Food preservation and storage Food Processing. Value addition products like High Fructose Syrup. Invert Sugars etc. SCPs (e.g. Spirulina, Yeast etc.) as food supplements.

UNIT IV:

Growth of microorganisms in food: Intrinsic and extrinsic factors, Food Spoilage (microbial and non-microbial). Control mechanisms of food spoilage: Physical and Chemical, Food and water borne diseases.

Course Outcomes: At the end of the course, a student would be able to -

- Understand science base in aspects of biotechnology relevant to the food sector –
 including molecular biology, bioprocess engineering and microbiological aspects of
 food biotechnology.
- Perform in a range of molecular biology techniques.
- Explain how the biological sciences and biochemical engineering are applied to
 produce novel food components and food processing systems.
- Undertake research in the area of food biotechnology

Recommended Books:

- 1. Food Sciences and Food biotechnology- G.F.G. Lopez, G. Canaas, E.V.Nathan
- Genetically Modified Foods- M.Ruse, D. Castle (Eds.)
- Biotechnology of Food Crops in Developing Countries- T. Hohn and K.M. Leisinger (Eds.)
- 4. Biotechnology and Food Process Engineering- H.G. Schwartzberg, M.A. Rao (Eds.)
- Food Biotechnology- (Eds.) R.Angold, G.A.Beech, J.Taggart.
- Food Biotechnology—Microorganisms-(Ed.) Y.H. Hui et al.

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		

44.	Pooja Sharma
45.	Simran Gulati
46.	Sorabh Kumar
47.	Teetu Chauhan

Debla Dixit Dr. Rekha Dixit (HOD)

> Registrar Registrar Swami Vivekanand Subharti University MEERUT

Sample Certificate



Swami Vivekanand Subharti University, Meerut

CERTIFICATE OF COMPLETION

Organized by

Department of Biotechnology, Keral Verma Subharti College of Science

This is to certify that	Bindu Agarwal	Class	B.Sc Biotechnology
Department/College	Biotechnology, KVSCO	os	has successfully
completed the Value Add	ed Course entitled "Basics o	f Food Biot	technology" during,
14.05.2018 to 19.05.2018	ß.		
G	तष्ठतः जाग्रतः प्राप्य वर	[[न्नविधित्त	

Dr. Rekha Dixit (HOD) Amit Kumar Dr. Amit Kumar (Coordinator)

Swaming Leave and