OPEN/GENERAL ELECTIVE COURSE: BASICS IN ORGANIC FARMING I

Open for First Year Graduate Student w.e.f. 2023-24

RECOMMENDED BY THE BOARD OF STUDIES IN BOTANY
AND
APPROVED BY THE ACADEMIC COUNCIL

Devrukh Shikshan Prasarak Mandal's
Nya. Tatyasaheb Athalye Arts, Ved. S. R. Sapre Commerce, and Vid. Dadasaheb Pitre Science College (Autonomous), Devrukh.
Tal.Sangmeshwar, Dist. Ratnagiri-415804, Maharashtra, India

Academic Council Item No: 3 dated 08/07/2023

Name of the Implementing Institute	:	Nya. Tatyasaheb Athalye Arts, Ved. S. R. Sapre Commerce, and Vid. Dadasaheb Pitre Science College (Autonomous), Devrukh. Tal. Sangmeshwar, Dist. Ratnagiri-415804
Name of the Parent University	:	University of Mumbai
Name of the Programme	:	Bachelor of Science/Arts/Commerce
Name of the Class to Which the course is Open	:	First Year, Semester First
No. of Credits	:	02
Title of the Course	:	Basics in Organic Farming I
Course Code	:	BTOE101
Passing Marks		40%
Nature of Course	:	Open/General Elective Course
Level	:	UG
Pattern	:	60:40
Status	:	Multidisciplinary- Open to all in the First Year
To be implemented from Academic Year	:	2023-2024

Syllabus for Open/General Elective Course in Basics of Organic Farming I

(With effect from the academic year 2023-2024)

SEMESTER-I **Paper No.– I**

Course Title: Basics of Organic Farming I **No. of Credits - 02**

Type of Vertical: Open/General Elective **COURSE CODE: BTOE101**

Learning Outcomes Based on BLOOM's Taxonomy:

After completing the course, the learner will be able to…

Course Learning Outcome No.	Blooms Taxonomy	Course Learning Outcome
CLO-01	Remember	Recall the organic farming concept, advantages and disadvantages, nutrient management in organic farming.
CLO-02	Understand	Explain the role and importance of nutrients in organic farming.
CLO-03	Apply	Present the organic farming understanding to local area problems related to nutrition pattern of crops.
CLO-04	Analyse	Differentiate various manures, the changing patterns of nutrition uptake and availability
CLO-05	Evaluate	Justify the significance of organic farming and it's components.

Syllabus for Open/General Elective Course in Basics of Organic Farming I

(With effect from the academic year 2023-2024)

SEMESTER-I **Paper No.– I**

Course Title: Basics of Organic Farming I **No. of Credits - 02**

Type of Vertical: Open/General Elective **COURSE CODE: BTOE101**

COURSE CONTENT			
Module No.	**Content**	**Cr**	**L**
I	**Organic Farming Introduction** Organic Farming- Definition, History, Concept, Need Organic Farming -Principles, Aims and Objectives Various Organic Farming Models Organic Farming – Components Characteristics of Good Organic Farmer, Conventional vs Organic Farming Organic Farming- Advantages and Disadvantages Organic farming in World Organic farming in India **Practicals:** To study components of Organic Farming To study advantages and disadvantages of Organic Farming To do soil testing To study types of organic farming To prepare green manures	01	30
II	**Nutrient Management in Organic Farming** Nutrient Management in Organic Farming: Concept, Organic Manures, Farm Yard Manure Compost Process, Phases, Requirements, Microorganisms in composting Various Methods of Composting Vermicomposting Technology Mulching Green Manures	01	30

	Biofertilizers **Practicals** To prepare Compost by anaerobic method To prepare Compost by aerobic method To prepare vermicompost To prepare vermiwash To use organic mulching To use biofertilizers		
	Total	**02**	**60**

Required Previous Knowledge

Basic Knowledge of organic farming, practices involved in farming is necessary before starting to learn the course

Access to the Course

The course is available for all the students admitted for Bachelor Degree as Open elective. The students seeking admission to this course considering the terms and conditions laid down by the University of Mumbai, the Government of Maharashtra, and the college, from time to time.

Forms of Assessment

The assessment of the course will be of Diagnostic, Formative and Summative type. At the beginning of the course diagnostic assessment will be carried out. The formative assessment will be used for the Continuous Internal Evaluation whereas the summative assessment will be conducted at the end of the term. The weightage for formative and summative assessment will be 60:40. The pattern will be followed as decided in Academic Council of the College.

Grading Scale

The grading scale used is O to F. Grade O is the highest passing grade on the grading scale, and grade F is a fail. The Board of Examinations of the college reserves the right to change the grading scale.

Reference Books:

Chhonkar, P.K. and Dwivedi, B.S. 2004. Organic farming and its implications on India's food security.Fertil. News 49(11): 15-18,21-28,31&38.

Gaur, A.C. 1982. A Manual of Rural Composting. FAO/UNDP Regional Project Document, FAO, Rome.

Howard, A. 1940. An Agricultural Testament. Oxford University, London.

Lampin, N. 1990. Organic Farming. Farming Press Books, Ipswitch, U.K.

Palaniappan, S.P and Anandurai, K. 1999. Organic Farming- Theory and Practice, Scientific Pub., Jodhpur.

Veeresh, G.K., Shivashankar, K. and Singlachar, M.A. 1997. Organic Farming and Sustainable Agriculture, Association for Promotion of Organic Farming, Bangalore.