



OPEN/GENERAL ELECTIVE COURSE: BASICS IN ORGANIC FARMING II

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 Second
No. of Credits	:	02
Title of the Course	:	Basics in Organic Farming II
Course Code	:	BTOE102
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 II
(With effect from the academic year 2023-2024)

SEMESTER-II

Paper No.– II

Course Title: Basics of Organic Farming II

No. of Credits - 02

Type of Vertical: Open/General Elective

COURSE CODE: BTOE103

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 liquid organic manure concept, advantages and disadvantages, pest management in organic farming.
CLO-02	Understand	Explain the role and importance of liquid manures and pest management in organic farming.
CLO-03	Apply	Present the liquid manure and pest management understanding to local area problems related to various crops.
CLO-04	Analyse	Differentiate the changing patterns of liquid manures and pest management.
CLO-05	Evaluate	Justify significance of liquid manures and pest managements in organic farming.

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

(With effect from the academic year 2023-2024)

SEMESTER-II

Paper No.– II

Course Title: Basics of Organic Farming II

No. of Credits - 02

Type of Vertical: Open/General Elective

COURSE CODE: BTOE103

COURSE CONTENT			
Module No.	Content	Credit	Lectures
1	<p>Liquid Organic Manures Liquid Organic Fertilizers- Micoorganisms in Liquid Organic Fertilizers, Nutrient content, Advantages and Uses Jivamrit- Requirement, Process, Application, Advantages Beejamrit - Requirement, Process, Application, Advantages Panchgavya - Requirement, Process, Application, Advantages Vermiwash: Requirement, Process, Application, Advantages</p> <p>Practicals: To study liquid organic manure To prepare jeevamrita To prepare beejamruta To prepare panchgavya To prepare amrutpani and Sapt dhanyankur</p>	01	30
2	<p>Pest and Disease Management in Organic Farming and Organic Certification Pest and Disease Management in Organic Farming: Strategies- Avoidance Techniques Managing the Growth Environment, Direct Treatment Various Herbal pesticides, Plants used, Procedure, benefits Weed Management in Organic Farming Organic Crop Management India Organic certification Process of Organic certification, Certification Agencies, Field Inspection Success stories of Organic Farmers</p>	01	30

	<p>Practicals: To study integrated pest management To identify crop friendly insects To prepare herbal organic pesticides to protect crop from pest and disease To prepare Neem extract To prepare Dashparni To use protection traps To study weed management in organic farming To study organic certification process</p>		
Total	02	60	

Required Previous Knowledge

Basic Knowledge of organic manures, liquid organic manures, pest, diseases and its management 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:

Woomer, PL. and Swift, M.J. 1994. The Biological Management of Tropical Soil

Fertility,.S.B.F. & Wiley.

Organic Farming for Sustainable Agriculture by Dahama A. K. Agrobios Publication.

Organic Farming in India, Problems and Prospects by Thapa, U. and Tripathi, P.

Recent Developments in Organic farming by Gulati and BarikLampin, 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.

Trends in Organic Farming in India by Agrobios Publication