

Ahmednagar Jilha Maratha Vidya Prasarak Samaj's

**New Arts, Commerce, and Science College  
Ahmednagar (Autonomous)**

(Affiliated to Savitribai Phule Pune University, Pune)



**National Education Policy (NEP)**

**Choice Based Credit System (CBCS)**

**Programme Framework and Syllabus for**

**Skill Enhancement Courses: Botany**

**कौशल्य वृद्धी अभ्यासक्रम: वनस्पतिशास्त्र**

**Implemented from**

**Academic Year 2024-25**

# New Arts, Commerce and Science College, Ahmednagar (Autonomous)

## Introduction of Skill Enhancement Courses: Botany

Skill development encompasses several vital attributes, including identifying one's skill gaps and enabling one to develop those skills to achieve their goal. In other words, it refers to systematic and sustained efforts towards improving one's ability to perform job-related activities. Both skills support a person to perform successfully at work and advance in most jobs. Skill development programs reflect positively on both employers and employees. With access to quality skill development programs and courses, an attendee can increase their employability, enhance career prospects, and achieve strong personal growth. They gather updated and relevant knowledge concerning their fields and can fulfil tasks in less time with more results. The performance level improves, and so are self-confidence and efficiency.

## Skill Enhancement Courses: Framework and Course Distribution: Subject: Botany

Sr. No.	Year	Semester	Level	Course Type	Course Code	Title	Credits
1.	I	II	5.0	SEC-01	SEC-BO 01P	Biofertilizers And Biopesticides	02
2.	II	III	5.5	SEC-02	SEC-BO 02P	Mushroom Cultivation	02
3.	II	IV	6.0	SEC-03	SEC-BO 03P	Herbal Technology	02
<b>Total</b>							<b>08</b>

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**Skill Enhancement Courses: Botany**

Title of the Course: Biofertilizers And Biopesticides								
Year: I				Semester: II				
Course Type	Course Code	Credit Distribution		Credits	Allotted Hours	Allotted Marks		
		Theory	Practical			CIE	ESE	Total
<b>SEC-01</b>	<b>SEC-BO 01 P</b>	00	02	02	60	15	35	50

**Learning Objectives: Student will able to**

1. Know different types of biofertilizers and their uses.
2. Know different types of biopesticides and their uses.
3. Identify the different forms of biofertilizers and biopesticides.
4. Know the preparation of different of biofertilizers and biopesticides.

**Course Outcomes (Cos)**

1. To develop understanding on the concept of bio-fertilizer and biopesticides.
2. To identify the different forms of biofertilizers and their uses
3. To identify the different forms of biopesticides and their uses
4. To develop the biofertilizer and biopesticide.

Sr. No.	Practicals	60 h
1.	Demonstration of biofertilizers, Biopesticides and bioagents in agriculture and organic farming system.	1P
2.	Classification of microorganisms used in biofertilizers.	1P
3.	Isolation of Mycorrhiza/ <i>Rhizobium</i> / PSB from soil sample.	2P
4.	Mass multiplication of BGA/ Azolla.	2P
5.	Preparation of composting/ algal biofertilizers.	2P
6.	Preparation and application of Jivamrut.	1P
7.	Demonstration of biopesticides-Nimbidine, Nicotin, pyrethrine, Azadirechtin.	1P
8.	Isolation of Trichoderma and its application.	2P
9.	Preparation and application of Bordax mixture/ paste.	1P
10.	Visits to Commercial biocontrol units and Krishi Seva Kendra/Survey of biofertilizers and biopesticides.	1P