



# **Savitribai Phule Pune University, Pune**

**(Formerly, University of Pune)**

**Under Graduate Degree Program in Arts**

**(Faculty of Humanities)**

**Revised Syllabi as per National Education Policy (2020) for  
S.Y.B.A. Restructuring Pattern (Semester-III and IV)**

**(This Syllabus is only applicable for Restructuring Colleges only Affiliated to  
Savitribai Phule Pune University, Pune)**

**To be implemented from  
Academic Year 2025-2026**

**Framed by  
BOARD OF STUDIES IN RESTRUCTURING PATTERN**

**Savitribai Phule Pune University,  
Ganeshkhind, Pune -07.**

**AIMS AND OBJECTIVES**

- To develop employability oriented diversified course content.
- To introduce skill oriented specialized education.
- To expose students to basic and applied knowledge of skill course.

1. **Title of the Course: B.A. Restructuring Pattern (03 years)**
2. **Syllabus revised as per National Education Policy (NEP) 2020 for the only Restructuring pattern Colleges Affiliated to Savitribai Phule Pune University, Pune**
3. **Faculty – Arts (Humanities)**
4. **To be implemented -For S.Y.B.A. (Semester III and Semester IV) from June 2025.**

**Program Duration and Exit Options**

The UG Program lasts for four years or six semesters. Student may leave the program after the third year if, he/she would like to receive a three-year undergraduate degree. If the student decides to withdraw after the first or second year, he/she will receive a UG Certificate or UG Diploma, depending on how many credits he/she is able to complete. Re-entering within three years to finish the degree program is allowed for students who leave with a UG certificate or UG diploma. A student must earn a minimum of 18 credits and a maximum of 26 credits each semester. It is recommended, nevertheless, that student should opt 22 credits per semester. This clause aims to give student the comfort of a flexible semester-based course load. However, Table 1 lists the minimum number of credits required to be earned in order to be awarded an Undergraduate Certificate/Undergraduate Diploma/Bachelor Degree/Bachelor's Degree.

**Table1: Type of Awards and Stages of Exit**

<b>Sr. No.</b>	<b>Type of Award</b>	<b>Stage of Exit</b>	<b>Mandatory Credits</b>
1.	Undergraduate certificate in Major core course subject (Marathi, Hindi, English, History, Geography, Economics, Political Science, Sociology, Psychology) with Restructuring courses	After successful completion of First year Semesters	44
2.	Undergraduate Diploma in Marathi, Hindi, English, History, Geography, Economics, Political Science, Sociology, Psychology with Restructuring courses	After successful completion of Second year Semesters	88

3.	Bachelor of Arts in Marathi, Hindi, English, History, Geography, Economics, Political Science, Sociology, Psychology Subject with Restructuring courses	After successful completion of Third year Semesters	132
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### 5. Eligibility Criteria –

The basic criteria for Under Graduate Degree S.Y.B.A. Restructuring pattern course subject pass with FYBA restructuring pattern course subject. Admissions will be given as per the selection procedure / policies adopted by the college keeping in accordance with the conditions laid down by the Savitribai Phule Pune University, Pune. Reservation and relaxation are as per the State Government rules.

**6. Fee Structure** – As per the norms of Savitribai Phule Pune University, Pune.

### 7. Duration of the Course

Certificate Course- 01 year (Completion of 02 Semesters)

Diploma Course- 02 years (Completion of 04 Semesters)

BSc. Degree- 03 years (Completion of 06 Semesters)

**8. No. of semesters** – Two semesters per year

**9. Medium of instructions and teaching: English/Marathi**

### 10. Course Implementation criteria for Theory and Practical:

- Each semester comprises of 15 weeks (12 weeks Actual Teaching + 3 weeks for Continuous Internal Evaluation).
- One Credit of the Theory** is equal to 15 clock hours (Teaching 1 hour per week for each credit, 12 hours Actual Teaching + 3 hours Continuous Internal Evaluation – Assignments, Tutorials, Practice, Problem solving sessions, Group discussion, Seminars and Unit Tests).
- One Credit of Practical** = 30 clock hours. (2 Contact hours per credit per week) One Credit = 30 clock hours (24 hours' Actual Table work + 6 hours for journal competition, and Continuous Internal Evaluation of each practical).
- Practical for each course comprises of 02 Credits = 60 clock hours.** Therefore,
  - Minimum 12 laboratory/ Filed sessions of 04 clock hours must be conducted in one semester.
  - In case of short practical, two practical's should be conducted in one session.
  - Each practical of 04 clock hours in the laboratory should consist of: Table performance for concerned practical, careful observations, calculation, writing results and conclusion, and submission of practical in written form.

- Pre-laboratory reading and post laboratory assignments should be given on each practical as a part of continuous internal evaluation.

**11. Examination Pattern (For each Semester):** The examinations will be conducted semester wise for both Theory as well as Practical courses.

- **Theory Paper of 02 Credits -**

- Internal Exam (15 M) + University Theory Exam (35 M) = Total 50 M
- Duration: For Internal exam = 40 Min. and For University Exam = 02 hours.

- **Practical Paper of 2 Credits -**

- Internal Exam (15 M) + University Practical Exam (35 M) = Total 50 M
- Duration: For Internal exam = 40 Min. and For University Exam = More than 04 hours.

**12. Award of Class/Grade:** The class / grade for the courses of each semester will be followed as per the norms and conditions laid down by SPPU, Pune.

**13. ATKT Rules:** As per the norms given by SPPU, Pune.

**14. Important Note:**

- a. There shall be at least a short tour/field visit/industrial visit (1-2 days) per year for all UG students. Tours are the part of curriculum and obligatory to each student, failing which they will not be considered eligible to appear for the practical examination. Under unavoidable circumstances, if the student fails to attend the tour, he/she have to produce justifiable evidence for not attending the tour. However, in lieu of tour the candidate will have to complete the work assigned by the Department.
- c. The documents to be produced by each student at the time of practical Examination (at the end of each Semester) are:
  - Submission of practical records compulsory (Journals).
  - Submission of a Tour / Visit report duly signed by the concerned practical In-charge and Head of the Department.
  - Any submissions / assignments, etc. based on the practical course.

### Question paper pattern for Theory (2 Credit courses)

A student will have to solve the question paper of 35 marks. The paper setter should set the paper on entire syllabus for total 60 marks, including optional questions. As the course is of 2 Credits (30 clock hour lectures), paper setter should allot two marks per lecture and accordingly, questions should be set for 30 lectures, 60 marks on entire syllabus.

**Note: All questions are compulsory.**

**Time: 2 Hours**

- |  |          |
|--|----------|
| Que. 1) Answer any five of the following in one sentence | 05 Marks |
| • Six questions  |          |
| • Each for 1 mark  |          |
| Que. 2a) Write any one of the following                  | 06 Marks |
| i.   |          |
| ii.  |          |
| Que. 2b) Write any one of the following                  | 04 Marks |
| i.   |          |
| ii.  |          |
| Que. 3a) Solve any one of the following                  | 06 Marks |
| i.   |          |
| ii.  |          |
| Que. 3b) Solve any one of the following                  | 04 Marks |
| i.   |          |
| ii.  |          |
| Que. 4) Write notes on (Any four)                        | 10 Marks |
| a.   |          |
| b.   |          |
| c.   |          |
| d.   |          |
| e.   |          |
| f.   |          |

## CREDIT FRAME WORK FOR S.Y.B.A. RESTRUCTURING PATTERN, SEMESTER-III

Course details		Course code	Course title	Credits
<b>Vertical-1(V1)</b>				
<b>Discipline Specific Core (DSC) Major Core Courses – (2T + 1P) x 2C = 6C</b>		4(T)	As per Major Subjects groups (Marathi, Hindi, English, History, Geography, Economics, Political Science, Sociology, Psychology)	4 C
		2 (P)	As per Major Subjects groups (Marathi, Hindi, English, History, Geography, Economics, Political Science, Sociology, Psychology )	2 C
<b>Major Elective Courses – (0C)</b>		-----	-----	0 C
<b>Vertical – 2 (V2)</b>				
<b>Minor Courses</b>	1T+1P		2(T)+2(P) As per Major Subjects groups(Marathi, Hindi, English, History, Geography, Economics, Political Science Sociology, Psychology)	4 C
<b>Vertical-3(V3)</b>				
<b>Generic Elective(GE) / Open Elective (OE)</b>		(1T=2C)	As per regular group	2C
<b>Vertical-4(V4)</b>				
<b>Vocational Skill Courses (VSC) –(1T = 2C/P) (Any one from basket)</b>		VSC-221-RE-T	Agriculture Economics	2C
		VSC-222-RE-T	Mass Communication	
		VSC-223-RE-T	Horticulture and Its Management	
<b>Skill Enhancement Courses</b>		-----	-----	0 C
<b>FP/OJT/CEP</b>		2 (FP)	As per regular group	2 C
<b>Vertical-5(V5)</b>				
<b>Indian Knowledge Systems (IKS) – (1T=2C)(Anyone From basket)</b>				2C
		-----	As per Regular syllabus (Major Subject Specific)	
<b>Ability Enhancement Courses (AEC)– (1T=2C)</b>		-----	As per Regular syllabus	2C
<b>Value Education Courses(VEC)</b>		-----	-----	0C
<b>Vertical-6(V6)</b>				
<b>FP/OJT /CEP</b>		-----	-----	0C
<b>Co-curricular Courses (CC) –(1T=2C)</b>		CC-	As per Regular syllabus	2 C
<b>Total Credits (V1+V2+V3+V4+V5+V6)</b>				<b>22 C</b>

## CREDIT FRAME WORK FOR S.Y.B.A. RESTRUCTURING PATTERN, SEMESTER-IV

Course details		Course code	Course title	Credits
Vertical-1(V1)				
Discipline Specific Core (DSC) Major Core Courses – (2T + 1P) x 2C = 6C	4(T)	As per Major Subjects groups (Marathi, Hindi, English, History, Geography, Economics, Political Science, Sociology, Psychology)		4 C
	2 (P)	As per Major Subjects groups (Marathi, Hindi, English, History, Geography, Economics, Political Science, Sociology, Psychology )		2 C
Major Elective Courses – (0C)	-----	-----		0 C
Vertical - 2 (V2)				
Courses	1T+1P	2(T)+2(P) As per Major Subjects groups(Marathi, Hindi, English, History, Geography, Economics, Political Science Sociology, Psychology)		4 C
Vertical-3(V3)				
Generic Elective(GE) / Open Elective (OE)		(1P=2C)	As per regular group	2C
Vertical-4(V4)				
Vocational Skill Courses (VSC) –(1T = 2C/P) (Any one from basket)	VSC-221-RE-T	Agriculture Economics		2C
	VSC-222-RE-T	Mass Communication		
	VSC-223-RE-T	Horticulture and Its Management		
Skill Enhancement Courses SEC	2(T/P)	As per regular group		2C
FP/OJT/CEP	2 (CEP)	As per regular group		2 C
Vertical-5(V5)				
Indian Knowledge Systems (IKS) –(1T=2C)(Anyone From basket)	-----	-----		0C
Ability Enhancement Courses (AEC)– (1T=2C)	-----	As per Regular syllabus		2C
Value Education Courses(VEC)	-----	-----		0C
Vertical-6(V6)				
FP/OJT /CEP	-----	-----		0C
Co-curricular Courses (CC) –(1T=2C)	CC-	As per Regular syllabus		2 C
Total Credits (V1+V2+V3+V4+V5+V6)				22 C

**Exit Option: Award of UG Diploma (UG Diploma Course in As per (Marathi, Hindi, English, History, Geography, Economics, Political Science, Sociology, Psychology ) in**

Major and Minor with 44 Credits and an additional 4 Credits core NSQF course / Internship OR Continue with Major and Minor.

### Courses offered by the SYBA BOS Restructuring Pattern

Year	Semester	Course Code	Course Title
Vocational Skill Courses (VSC) –(1T = 2C/P) (Any one from basket)			
<b>Vertical 4</b>			
S.Y.B.A.	III	VSC-221-RE-AE-T	Agriculture Economics
	III	VSC-222-RE-MC-T	Mass Communication
	III	VSC-223-RE-HM-T	Horticulture and Its Management
Vocational Skill Courses (VSC) –(1T = 2C/P) (Any one from basket)			
S.Y.B.A	VI	VSC-271-RE-AE-P	Agriculture Economics
		VSC-272-RE-MC-P	Mass Communication
		VSC-273-RE-HM-P	Horticulture and Its Management



**Savitribai Phule Pune University, Pune**  
**BA Restructuring Pattern Syllabus (as per NEP-2020)**  
**Syllabus from June 2024**

<b>Name of the Programme</b>	:	B.A Restructuring Pattern
<b>Class</b>	:	SYBA
<b>Semester</b>	:	III
<b>Name of Vertical Group</b>	:	V4 VSC
<b>Course Code</b>	:	<b>VSC-221-RE-AE-T</b>
<b>Course Title</b>	:	<b>Agriculture Economics</b>
<b>No. of Credits</b>	:	2
<b>No. of Teaching Hours</b>	:	30

**Preamble:**

The NEP-2020 has adopted holistic and multidisciplinary approach towards undergraduate education. In the proposed structure, due consideration is given to restructured courses along with the conventional courses (Regular Pattern).

The continuous assessment of NEP-2020 will facilitate systematic and through learning towards better understanding of the subject. The well planned curricula will definitely motivate the students for inculcating enough skills required for becoming a successful entrepreneur as well as a researcher. From this point of view, the curriculum of this course aims at imparting the knowledge of Agriculture Sector.

**Objectives:**

- 1. To introduce students to the fundamental concepts of agricultural economics** and to understand its scope and role in national economic development.
- 2. To provide knowledge about cropping patterns in India**, including types and the key factors that influence crop selection and rotation.
- 3. To develop understanding of essential agricultural inputs** such as seeds, irrigation systems, fertilizers, and pesticides, and their importance in increasing agricultural productivity.

4. **To examine the key challenges faced by the Indian agricultural sector**, including finance, crop insurance, labour issues, and marketing strategies.
5. **To explore emerging issues and allied activities in agriculture**, including farmer suicides, climate change, agro-tourism, organic farming, and allied businesses like dairy, poultry, and goat/sheep farming.

**Course Outcomes:****Students will be able to:**

1. **Explain the nature, scope, and importance of agricultural economics**, and evaluate the role of agriculture in the economic development of India.
2. **Analyse cropping patterns and the effective use of agricultural inputs** such as seeds, irrigation, fertilizers, and pesticides for sustainable farming.
3. **Identify and assess key problems in the agricultural sector**, including agricultural finance, crop insurance, labour issues, and marketing challenges.
4. **Examine major contemporary issues in Indian agriculture**, such as farmer suicides, climate change, agro-tourism, and the growing relevance of organic farming.
5. **Understand the importance of allied agricultural businesses** like dairy, poultry, and sheep/goat farming, and critically analyse the challenges associated with them.

**SEMESTER- III****Course Code-VSC-221-RE-AE-T****Paper Title: Agricultural Economics-I****Theory (Credit 2) No. of Hours: 30 Hours****Total Marks: 15 Internal + 35 External Marks**

Unit No.	Unit Title and Contents	Hours
1	<b>Indian Agriculture and Inputs</b> 1.1 Nature and Scope of Agriculture Economics 1.2 Role of Agriculture in Economic Development 1.3 Cropping Pattern: Types, Factors affecting on cropping pattern. 1.4 Agricultural Inputs: Seeds, Irrigation, Fertilizers and Pesticides <b>१. शेती अर्थशास्त्राचे स्वरूप आणि व्याप्ती</b> १.१ शेती अर्थशास्त्राचे स्वरूप आणि व्याप्ती १.२ आर्थिक विकासात शेतीचे महत्त्व १.३ पिक पद्धती: प्रकार, पिक पद्धतीवर परिणाम करणारे घटक १.४ कृषी निविष्टा: बियाणे, सिंचन, खते व कीटकनाशके	6
2	<b>Problems of Agricultural Sector</b> 2.1 Agricultural Finance 2.2 Crop Insurance 2.3 Problems of Agricultural Labour 2.4 Agriculture Marketing <b>कृषी क्षेत्रातील समस्या</b> २.१ कृषी वित्त २.२ पीक विमा २.३ कृषी कामगारांच्या समस्या २.४ कृषी विपणन	8
3	<b>Major Issues of Indian Agriculture</b> 3.1 Farmers Suicide 3.2 Climate change and Indian Agriculture 3.3 Agro Tourism 3.4 Organic Farming <b>भारतीय शेतीमधील प्रमुख प्रश्न</b> ३.१ शेतकरी आत्महत्या ३.२ हवामान बदल व भारतीय शेती	8

	३.३ कृषी पर्यटन ३.४ सेंद्रिय शेती	
4	<b>Agriculture and Allied Business: Importance and Problems</b> 4.1 Dairy Farming 4.2 Poultry Farming 4.3 Sheep/Goat Farming <b>शेती व संलग्न व्यवसाय: महत्त्व व समस्या</b> ४.१ दुग्ध व्यवसाय ४.२ कुक्कुटपालन ४.३ मेंढी/शेळी पालन	8

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**SEMESTER- IV****Course Code-VSC-271-RE-AE-P****Paper Title: Agricultural Economics-II****Practical (Credit 2) No. of Hours: 60 Hours****Total Marks: 15 Internal + 35 External Marks**

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**Objectives:**

1. To understand cropping patterns, land use, and resource management practices in rural agricultural systems.
2. To study the application and efficiency of agricultural inputs such as seeds, irrigation, fertilizers, pesticides, and agricultural equipment at the village level.
3. To evaluate the economic aspects of agricultural and allied enterprises like Polyhouse farming, dairy farming, poultry farming, and sheep/goat farming through income and expenditure analysis.
4. To gain practical exposure to employment patterns, rural labour issues, and agricultural extension services by interacting with landless workers and visiting Krishi Vigyan Kendra.

**Course Outcomes:**

1. Students will be able to analyse cropping patterns, land use, and the application of agricultural inputs at the village level.
2. Students will demonstrate an understanding of resource management, including water sources and the use of traditional and modern farming equipment.
3. Students will evaluate the economic viability of agricultural and allied activities such as Polyhouse farming, dairy, poultry, and sheep/goat farming by studying income and expenditure.
4. Students will gain practical knowledge of rural employment patterns and agricultural extension services through field visits and interaction with institutions like Krishi Vigyan Kendra.

Sr. No	Practical Contents	15
1.	To study the various cropping patterns in the village. गावातील विविध पीक पद्धतींचा अभ्यास करणे – १	1
2.	To study the land use pattern of the village. गावातील जमीन वापर पद्धतीचा अभ्यास करणे – १	1
3.	To study the per hectare use of various inputs by five farmers for specific crops. विशिष्ट पिकांसाठी पाच शेतकऱ्यांकडून प्रतिहेक्टर विविध निविष्टांचा वापर अभ्यासणे – २	2
4.	To study the sources of water availability in the village. गावातील पाण्याच्या उपलब्धतेच्या स्रोतांचा अभ्यास करणे – १	1
5.	To study the traditional and modern agricultural equipment used in the village. गावात वापरल्या जाणाऱ्या पारंपरिक व आधुनिक कृषी उपकरणांचा अभ्यास करणे – २	2
6.	To study the seasonal turnover of fertilizers and pesticides in the village. गावातील खत व कीटकनाशकांच्या हंगामी उलाढालीचा अभ्यास करणे – १	1
7.	To study the employment pattern of landless workers. भूमिहीन कामगारांच्या रोजगार पद्धतीचा अभ्यास करणे – १	1
8.	To visit a Polyhouse and analyse its income and expenditure. पॉलीहाउसला भेट देऊन त्याचे उत्पन्न व खर्च यांचे विश्लेषण करणे – २	2
9.	To visit a dairy farm and analyse its income and expenditure. दुग्ध व्यवसायास भेट देऊन त्याचे उत्पन्न व खर्च यांचे विश्लेषण करणे – १	1
10.	To visit a poultry farm and analyse its income and expenditure. कुक्कुटपालन केंद्रास भेट देऊन त्याचे उत्पन्न व खर्च यांचे विश्लेषण करणे – १	1
11.	To visit sheep and goat farming operations and analyse their income and expenditure. मेंढी व शेळी पालन व्यवसायास भेट देऊन त्याचे उत्पन्न व खर्च यांचे विश्लेषण करणे – १	1
12.	To visit a Krishi Vigyan Kendra (Agricultural Science Centre). कृषी विज्ञान केंद्रास भेट देणे – १	1

Students shall prepare the journal on the basis of the practical's based activity conducted in the semester.

Sr. No	Practical Exam Pattern	Marks
1.	Practical Work Book – 20 Marks	20
2.	Viva Voce/Presentation Internal – 15 Marks External – 15 Marks	30
	<b>Total</b>	<b>50</b>

**SEMESTER- III****Course Code-VSC-222-RE-MC-T****Paper Title: Mass Communication -I****Theory (Credit 2) No. of Hours: 30 Hours****(Total Marks: 15 Internal + 35 External Marks)****Objectives:**

This course is designed to acquaint students with the –

1. To improve Basic Concepts of Mass Communication.
2. To explore the idea of Communication and Mass Communication, History of Print Media and Electronic Media.
3. To explore and understand the theoretical concept of Mass communication, including its process, types and significance in personal and social contexts.
4. To develop a comprehensive understanding of how to establish effective Mass communication in both personal and social life.

**Course Outcomes:**

1. The students will be able to understand the basic concepts of Mass Communication and Media.
2. The students will understand the traditional and modern Mass Communication System.
3. The students will be able to apply these concepts in making sense of social realities.
4. Students will gain a understanding of Merits and Demerits of Electronic Media.

**Theory Syllabus****1. Introduction to Mass Communication****5L**

- a) The meaning, concepts and principles of communication.
- b) Process of communication.
- c) Types of communication.
- d) Traditional communication system.

**१. जनसंवाद माध्यमांचा परिचय**

- a) जनसंवादचे अर्थ, संकल्पना आणि तत्त्वे
- b) जनसंवाद प्रक्रिया



c) जनसंवादचे प्रकार

d) पारंपरिक जनसंवाद प्रणाली

## 2. Media

5L

### I) Print Media –

i. History of Print Media

ii. Types of Print Media- News Paper, Magazines, Periodicals, Quarterly, Annuals.

iii. Merits and Demerits of Print Media.

### २. माध्यमे

#### I) मुद्रित माध्यमे (Print Media)

i. मुद्रण माध्यमांचा इतिहास

ii. मुद्रण माध्यमांचे प्रकार – वृत्तपत्रे, मासिके, आवृत्त्या, त्रैमासिके, वार्षिके

iii. मुद्रण माध्यमांचे फायदे आणि तोटे

## 3) Electronic Media-

5L

i. History of Electronic Media

ii. Types of Electronic Media- Television, Radio, Social Media.

iii. Merits and Demerits of Electronic Media.

#### II) इलेक्ट्रॉनिक माध्यमे (Electronic Media)

i. इलेक्ट्रॉनिक माध्यमांचा इतिहास

ii. इलेक्ट्रॉनिक माध्यमांचे प्रकार – दूरदर्शन, रेडिओ, सामाजिक माध्यमे

iii. इलेक्ट्रॉनिक माध्यमांचे फायदे आणि तोटे

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- वि.ल.धारूरकर,जनसंपर्क मिमांसा,वृत्तपत्र विद्या व जनसंवाद विभाग,मराठवाडा विद्यापीठ,औरंगाबाद.
- जे.व्ही.विलानिलम,अनुवाद जयमती दळवी,भारतातील प्रसारमाध्यमे काल आणि आज,डायमंड पब्लिकेशन पुणे-२००८
- खांडे र.र.-दृक साधने ,महाराष्ट्र ग्रंथ निर्माण,नागपूर

**SEMESTER- IV****Course Code-VSC-272-RE-MC-P****Paper Title: Mass Communication -II****Practical (Credit 2) No. of Hours: 60 Hours****Objectives:**

1. To enable the students to apply their understanding of basic concepts of Mass Communication and their application.
2. To understand the various dimensions of Media through their practical use.

**Learning Outcomes:**

1. Students will be able to apply the theoretical concepts of Mass Communication in real-life situations and media practices.
2. Students will understand how various elements of media and mass communication are utilized in the industry.

**Mass Communication (Sem-IV): Practical Syllabus**

Sr No.	Practical	15
1.	To collect newspaper clippings of various news items published in local newspapers and classify them. स्थानिक वृत्तपत्रांमध्ये प्रसिद्ध झालेल्या विविध बातम्यांच्या कात्रणांचा संग्रह करून त्यांचे वर्गीकरण करणे – २	2
2.	Create a newsletter on a topic of interest. आपल्या आवडीच्या विषयावर एक वृत्त पत्र तयार करा.	1
3.	Create a social media campaign for a product or service. एखाद्या उत्पादन किंवा सेवेकरिता एक सोशल मीडिया मोहिम तयार करा.	1
4.	Write a script for a radio program. रेडिओ कार्यक्रमासाठी एक संवादलेखन (स्क्रिप्ट) लिहा.	1
5.	Create a short video on a topic of interest. आपल्या आवडीच्या विषयावर एक लघु व्हिडिओ तयार करा.	1
6.	To collect and report the feedback of readers from newspapers on the challenges faced by newspapers. वृत्तपत्रांसमोर असलेल्या आव्हानांबाबत वाचकांकडून मिळालेल्या अभिप्रायांचा संग्रह व अहवाल तयार करणे	1
7.	To visit a newspaper office and write a report on the newspaper production process. एखाद्या वृत्तपत्र कार्यालयाला भेट देऊन वृत्तपत्र निर्मिती प्रक्रियेवर अहवाल तयार करणे	2

8.	To interview newspaper readers and gather their views on a particular matter using questionnaires. प्रश्नावलीच्या आधारे वृत्तपत्र वाचकांची मुलाखत घेऊन एखाद्या विशिष्ट विषयावर त्यांची मते जाणून घेणे	2
9.	To collect advertisements published in newspapers. वृत्तपत्रांमध्ये प्रसिद्ध झालेल्या जाहिरातींचा संग्रह करणे	1
10.	To prepare a documentary report on a social issue using questionnaires. प्रश्नावलीच्या आधारे सामाजिक समस्येवर माहितीपटात्मक अहवाल तयार करणे	1
11.	To prepare report on IT media माहिती तंत्रज्ञान माध्यमांवर अहवाल तयार करणे	1
12.	To visit a radio station and observe it's functioning to write a report रेडिओ केंद्राला भेट देऊन त्याचे कार्य पाहून अहवाल तयार करणे.	1

- Students shall prepare the journal basis of the practical's based activity conducted in the semester.

Sr. No	Practical Exam Pattern	Marks
1.	Practical Work Book – 20 Marks	20
2.	Viva Voce/Presentation Internal – 15 Marks External – 15 Marks	30
	<b>Total</b>	<b>50</b>

**SEMESTER- III****Course Category – Vocational Skill Course (VSC)****Course Code-VSC-223-RE-HM-T****Course Title: Horticulture and Its Management-I****[No. of Credits: 2 C]****[No. of Lectures: 30 L]****Course Objectives:**

- 1: Understand the fundamentals of horticulture
2. Learn about different types of horticultural crops
3. Study horticultural practices and techniques
4. Explore the importance of horticulture in human life

**Course Outcomes:**

- 1: Students will be acquainted with the concept of Horticulture and its management.
- 2: They will understand the importance of horticulture in human life
- 3: Students will understand practices and techniques in horticulture and its management

Sr. No.	Topic Details	No. of Lectures
	<b>Credit-I</b>	<b>15L</b>
1.	<b>Chapter-1: Introduction and Principles of Horticulture</b> <ul style="list-style-type: none"> <li>• Definition Scope of Horticulture</li> <li>• Importance of Horticulture in Human Life</li> </ul> <b>१: उद्यानविद्येचा परिचय आणि तत्त्वे</b> <ul style="list-style-type: none"> <li>• उद्यानविद्येची व्याख्या व व्याप्ती</li> <li>• मानवी जीवनातील उद्यानविद्येचे महत्त्व – २ तास</li> </ul>	2L
2.	<b>Chapter-2: Branches of Horticulture</b> <ul style="list-style-type: none"> <li>• Pomology</li> <li>• Olericulture</li> <li>• Floriculture</li> <li>• Bonsai Culture</li> <li>• Landscape gardening</li> </ul> <b>२: उद्यानविद्येच्या शाखा</b> <ul style="list-style-type: none"> <li>• पॅमोलॉजी (फळशास्त्र)</li> <li>• ओलेरिकल्चर (भाजीपाला उत्पादन)</li> <li>• फ्लोरीकल्चर (फुलशेती)</li> <li>• बोनसाई संस्कृती</li> <li>• लँडस्केप बागकाम – ३ तास</li> </ul>	3L
3.	<b>Chapter-3: Modern Trends in Horticulture</b>	3L

	<ul style="list-style-type: none"> <li>Greenhouse technology</li> <li>Hydroponics and soilless cultivation</li> <li>Organic horticulture</li> <li>Precision horticulture</li> </ul> <p><b>३: उद्यानविद्येमधील आधुनिक प्रवाह</b></p> <ul style="list-style-type: none"> <li>हरितगृह तंत्रज्ञान</li> <li>हायड्रोपोनिक्स व मृत्तिहीन शेती</li> <li>सेंद्रिय उद्यानविद्या</li> </ul> <p>अचूक उद्यानविद्या – ३ तास</p>	
4.	<p><b>Chapter-4: Site Selection, Soil, Climate management:</b></p> <ul style="list-style-type: none"> <li>Selection of site for horticultural crops</li> <li>Type of soil</li> <li>Physical and chemical properties of soil</li> <li>Climate and its impact on horticultural crops</li> <li>Soil preparation and management</li> </ul> <p><b>४: क्षेत्र निवड, माती व हवामान व्यवस्थापन</b></p> <ul style="list-style-type: none"> <li>उद्यान पिकांसाठी क्षेत्र निवड</li> <li>मातीचे प्रकार</li> <li>मातीची भौतिक व रासायनिक गुणधर्म</li> <li>हवामान व त्याचा उद्यान पिकांवर परिणाम</li> <li>मातीची तयारी व व्यवस्थापन – ३ तास</li> </ul>	3L
5.	<p><b>Chapter-5: Plant propagation Techniques:</b></p> <ul style="list-style-type: none"> <li>Definition</li> <li>Types-</li> <li>Vegetative (Asexual)</li> <li>1. Natural: Creepers, Runner, Sucker, Tuber, Rhizome, Bulbs, Corms</li> <li>2. Artificial vegetative propagation: Cutting, Layering, Grafting, Budding</li> <li>Sexual Propagation: Seeds</li> <li>Tissue Culture</li> </ul> <p><b>५: वनस्पती प्रजनन तंत्र</b></p> <ul style="list-style-type: none"> <li>व्याख्या</li> <li>प्रकार – <ul style="list-style-type: none"> <li>वनस्पतीजन्य (अलैंगिक) <ul style="list-style-type: none"> <li>नैसर्गिक: वेल, रनर, सकर, कंद, राईझोम, कांदे, कोंब</li> <li>कृत्रिम अलैंगिक प्रजनन: छाटणे, आळी घालणे, कलम करणे, डोळे कलम</li> </ul> </li> <li>लैंगिक प्रजनन: बियाणे</li> <li>टिशू कल्चर (ऊतक संवर्धन) – ४ तास</li> </ul> </li> </ul>	4L
	<b>Credit-II</b>	

6.	<b>Chapter-6: Horticultural Practices</b> <ul style="list-style-type: none"> <li>Irrigation and water management: Drip, sprinkler, Micro sprinkler, Flood, Ridges and Furrows, Surface, Automation of micro-irrigation</li> <li>Fertigation and nutrition</li> <li>Pruning and training</li> <li>Pest and disease management</li> </ul> <b>६: उद्यानविद्येतील कार्यपद्धती</b> <ul style="list-style-type: none"> <li>सिंचन व जल व्यवस्थापन: ठिबक, स्प्रिंकलर, मायक्रो स्प्रिंकलर, पूर, सरी व furrows, पृष्ठीय, मायक्रो-सिंचनाचे स्वयंचलन</li> <li>फर्टिगेशन व पोषण व्यवस्थापन</li> <li>छाटणी व प्रशिक्षण</li> </ul> <b>कीड व रोग व्यवस्थापन – ५ तास</b>	5L
7.	<b>Chapter-7: Weed Management:</b> <ul style="list-style-type: none"> <li>Definition and Concept</li> <li>Economic importance of weeds</li> <li>Weed management methods: Cultural, Biological and Chemical control (Systemic and Contact Herbicides)</li> </ul> <b>७: तण व्यवस्थापन</b> <ul style="list-style-type: none"> <li>व्याख्या व संकल्पना</li> <li>तणांचे आर्थिक महत्त्व</li> </ul> <b>तण नियंत्रण पद्धती: सांस्कृतिक, जैविक व रासायनिक (प्रणालीगत व संपर्क कीटनाशके) – ४ तास</b>	4L
8.	<b>Chapter-8: Post-Harvest Management</b> <ul style="list-style-type: none"> <li>Definition and concept</li> <li>Importance of post-harvest management</li> <li>Harvesting and handling</li> <li>Storage and packaging</li> <li>Marketing and export</li> </ul> <b>८: काढणीनंतर व्यवस्थापन</b> <ul style="list-style-type: none"> <li>व्याख्या व संकल्पना</li> <li>काढणीनंतर व्यवस्थापनाचे महत्त्व</li> <li>काढणी व हाताळणी</li> <li>साठवण व पॅकेजिंग</li> <li>विपणन व निर्यात – ४ तास</li> </ul>	4L
9.	<b>Chapter-9: Government policies / Schemes for promoting fruit crops cultivation in India</b> <ul style="list-style-type: none"> <li>State Policies/ Schemes</li> <li>Central Policies/Schemes</li> </ul>	2L

	<b>९: भारतातील फळ पिकांच्या लागवडीसाठी शासकीय धोरणे / योजना</b> <ul style="list-style-type: none"> <li>राज्य शासनाच्या धोरणे / योजना</li> </ul> <b>केंद्र शासनाच्या धोरणे / योजना – २ तास</b>	
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#### References

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- Basic Horticulture, Jitendra Sing, 2002. Kalyani Publishers, Hyderabad.
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- Propagation of Horticultural Crops: Principles and Practices, Sarma, R.R. 2002. Kalyani Publishers, New Delhi
- Textbook of Horticulture, K Manibhushan Rao, Macmillan, 2005
- Recent Trends in Post Harvest Technology And Management, Dr. Alok Kumar, Dr Pranay Punj Pankaj, Dr.P. Baskaran, Munhalum Publication 2015
- Navigator for Horticulture, Nitin A. Nalage, Universal Prakashan Pune, 2014.
- Handbook of Biological Control and Horticulture Crops, Dr. J. S. Bohara, Agrotech Press, 2015.
- Horticulture, Dr. Ramchandra Nivrutti Sabale, Amol Prakashan Pune, 2000

### SEMESTER- IV

#### Course Category – Vocational Skill Course (VSC)

#### Course Code-VSC-273-RE-HM-P

#### Course/Paper Title: **Horticulture and Its Management-II**

**[No. of Credits: 2 C]**

**[No. of Practical Lectures: 60 L]**

#### Course Objectives:

- 1: Understand the fundamentals of horticulture
2. Learn about different types of horticultural crops
3. Study horticultural practices and techniques
4. Explore the importance of horticulture in human life

#### Course Outcomes:

- 1: Students will be acquainted with the concept of Horticulture and its management.

2: They will understand the importance of horticulture in human life

3: Students will understand practices and techniques in horticulture and its management

Sr. No.	Name of Practical	No. of Practical
1.	To understand tools and implements used in horticulture उद्यानविद्येमध्ये वापरली जाणारी साधने व उपकरणे समजून घेणे	1P
2.	To study natural vegetative propagation methods- Creepers, Runner, Sucker, Tuber, Rhizome, Bulbs, Corms नैसर्गिक वनस्पतीजन्य प्रजनन पद्धतींचा अभ्यास करणे – वेल, रनर, सकर, कंद, राईझोम, कांदे, कोंब	1P
3.	To study and perform artificial vegetative propagation method- Cutting (Soft wood/Semi hard wood and Hard Wood) with suitable example कृत्रिम वनस्पतीजन्य प्रजनन पद्धतींचा अभ्यास व प्रत्यक्ष प्रयोग करणे – छाटणी (सॉफ्ट वूड / सेमी हार्ड वूड / हार्ड वूड) योग्य उदाहरणासह	1P
4.	To study and perform artificial vegetative propagation method- Budding (T- budding and Patch Budding) with suitable example कृत्रिम वनस्पतीजन्य प्रजनन पद्धतींचा अभ्यास व प्रत्यक्ष प्रयोग करणे – डोळे कलम (टी-बडिंग व पॅच बडिंग) योग्य उदाहरणासह	1P
5.	To study and perform artificial vegetative propagation method- Layering (Air, Mound) with suitable example कृत्रिम वनस्पतीजन्य प्रजनन पद्धतींचा अभ्यास व प्रत्यक्ष प्रयोग करणे – आळी घालणे (एअर लेयरिंग व माउंड लेयरिंग) योग्य उदाहरणासह	1P
6.	To study and perform artificial vegetative propagation method- Grafting (Approach and Stone) with suitable example कृत्रिम वनस्पतीजन्य प्रजनन पद्धतींचा अभ्यास व प्रत्यक्ष प्रयोग करणे – कलम करणे (अप्रोच व स्टोन ग्राफ्टिंग) योग्य उदाहरणासह	1P
7.	To perform bonsai technique in suitable plant योग्य वनस्पतीवर बोनसाई तंत्र वापरून प्रत्यक्ष प्रयोग करणे	1P
8.	To perform hydroponic technique in suitable crop योग्य पिकावर हायड्रोपोनिक तंत्राचा प्रयोग करणे	1P
9.	To prepare slurry compost for horticultural crops उद्यान पिकांसाठी स्लरी कंपोस्ट तयार करणे	1P
10.	To calculate the correct dose of pesticide based on label recommendations for effective pest control लेबलवरील शिफारसीनुसार कीटकनाशकाची अचूक मात्रा मोजणे व त्याचा प्रभावी वापर करणे – १ प्रयोग	1P
11.	To perform the preparation of Bordeaux mixture and paste बोर्डो मिश्रण व पेस्ट तयार करणे	1P
12.	Identification and management of nutritional disorders in fruit crops	1P



	फळपिकांमधील पोषणतत्वांशी संबंधित विकृती ओळखणे व त्याचे व्यवस्थापन करणे	
13.	To study physicochemical parameters- soil texture, pH and nutrient availability मातीचे भौतिक व रासायनिक घटक – मृद्रचना, pH आणि पोषकतत्वांची उपलब्धता यांचा अभ्यास करणे	1P
14.	To test water quality w.r.t. pH, turbidity and TDS पाण्याची गुणवत्ता तपासणे – pH, गढूळपणा (turbidity) व TDS च्या दृष्टीने	1P
15.	To determine optimal NPK dose for suitable horticulture crop योग्य उद्यान पिकासाठी आवश्यक NPK (नायट्रोजन, फॉस्फरस, पोटॅशियम) मात्रा निश्चित करणे	1P

**References:**

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