

# Shriram College of Horticulture, Paniv

## Syllabus

### Courses as per semester

### Course Curriculum of First Semester as per the ICAR-Sixth Deans' Committee Report for Academic Programmes

#### HORTICULTURE

#### Course Layout

#### B.Sc. (Hons.) Horticulture

Semester: I (New)

w.e.f. Academic

Year: 2024-25

Sr. No.	Course No.	Course Title	Credit Hrs.	Remark
1.	CAC-111	<i>Deeksharambh</i> (Induction-cum-Foundation Course)	2(0+2)	NG (2 Weeks)
2.	AEC-111	National Service Scheme (NSS-I) / National Cadet Corps (NCC-I)	1(0+1)	
3.	AEC-112	Communication Skills	2(1+1)	
4.	MDC-111	Farming-based Livelihood Systems	3(2+1)	
5.	MATH-111*/ BIO-111**	Introductory Mathematics*/ Basic Biology**	1(1+0)	NG & Need-based
6.	HORT-111	Fundamentals of Horticulture	3(2+1)	
7.	FS-111	Plant Propagation and Nursery Management of Fruit and Plantation Crops	3(1+2)	
8.	FLA-111	Commercial Production of Flower Crops	3(1+2)	
9.	IDE-111	Sprinkler and Micro Irrigation Systems	2(1+1)	
10.	SEC-111	Skill Enhancement Course-I (To be offered from the bouquet of SEC Courses)	2(0+2)	
11.	SEC-112	Skill Enhancement Course-II (To be offered from the bouquet of SEC Courses)	2(0+2)	

		<i>Courses)</i>		
<b>Total Credits Hrs.</b>			<b>21(8+13)</b>	
			<b>G</b>	
			<b>3(1+2)</b>	
			<b>NG</b>	
<b>CAC:</b> Common Academic Course, <b>AEC:</b> Ability Enhancement Course, <b>MDC:</b> Multidisciplinary Course, <b>SEC:</b> Skill Enhancement Course, <b>G:</b> Gradial, <b>NG:</b> Non-Gradial				
<b>Note:</b> *MATH-111 for <b>PCB</b> student/ **BIO-111 for <b>PCM</b> student/ <b>PCMB</b> student is NOT required to take any of these Need-based/Deficiency Courses.				

**Course Curriculum of Second Semester as per the  
ICAR-Sixth Deans' Committee Report for Academic  
Programme in  
HORTICULTURE**

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**Course Layout**

**B.Sc. (Hons.) Horticulture**

**Semester: II (New)**

*w.e.f.* **Academic Year: 2024-25**

Sr. No.	Course No.	Course Title	Credits Hrs.	Remark (if any)
1.	<b>AEC-123</b>	National Services Scheme (NSS-II)/ National Cadet Corps (NCC-II)	1(0+1)	--
2.	<b>AEC-124</b>	Personality Development	2(1+1)	--
3.	<b>MDC-122</b>	Entrepreneurship Development and Business Management	3(2+1)	--

4.	<b>VAC-121</b>	Environmental Studies and Disaster Management	3(2+1)	--
5.	<b>AGRO-121</b>	Introduction to Major Field Crops	3(2+1)	--
6.	<b>PSMA-121</b>	Commercial Production of Spices and Plantation Crops	3(2+1)	--
7.	<b>VS-121</b>	Plant Propagation and Nursery Management in Vegetables, Flowers and Medicinal crops	3(1+2)	--
8.	<b>SEC-123</b>	Skill Enhancement Course-III <i>(To be offered from the list of SEC Courses)</i>	2(0+2)	--
9.	<b>SEC-124</b>	Skill Enhancement Course-IV <i>(To be offered from the list of SEC Courses)</i>	2(0+2)	--
<b>Total Credits Hrs.</b>			<b>22(10+12)</b>	<b>G</b>
<b>AEC:</b> Ability Enhancement Course, <b>MDC:</b> Multidisciplinary Course, <b>SEC:</b> Skill Enhancement Course, <b>VAC-</b> Value-Added Course, <b>G:</b> Gradual				
<b>Post II Semester (Only for Exit option for award of UG-Certificate)</b>				
10.	<b>INT-121</b>	Internship (10 Weeks)	10(0+10)	--

**Course Curriculum of Third Semester as per the  
ICAR-Sixth Deans' Committee Report for Academic  
Programmes in  
HORTICULTURE**

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**Course Layout**

## B.Sc. (Hons.) Horticulture

**Semester: III (New)**

*w.e.f.* Academic Year: 2025-26

Sr. No.	Course No.	Course Title	Credits Hrs.	Remark
1.	<b>AEC-235</b>	Physical Education, First Aid, Yoga Practices and Meditation	2(0+2)	--
2.	<b>MDC-233</b>	Agricultural Marketing and Trade	3(2+1)	--
3.	<b>VS-232</b>	Commercial Vegetable Production	4(3+1)	--
4.	<b>SSAC-231</b>	Fundamentals of Soil Science	3(2+1)	--
5.	<b>FS-232</b>	Commercial Fruit Production	4(3+1)	--
6.	<b>PATH-231</b>	Disease Management of Horticultural Crops	3(2+1)	--
7.	<b>SEC-235</b>	Skill Enhancement Course-V <sup>#</sup> <i>(To be offered from the list of SEC Courses)</i>	2(0+2)	--
8.	<b>OC-1/ OC-2/...</b>	Online Course(s)/ MOOCs <sup>†</sup>	As opted by student	<b>NG</b>
<b>Total Credits Hrs.=</b>			<b>21(12+9)</b>	<b>G</b>
<b>AEC:</b> Ability Enhancement Course, <b>MDC:</b> Multidisciplinary Course, <b>SEC:</b> Skill Enhancement Course, <b>OC:</b> Online Course, <b>G:</b> Gradual, <b>NG:</b> Non-gradual				
<sup>†</sup> <b>Note:</b> It is mandatory for each Student to complete <b>total 10 credits</b> (Non-gradual) of <b>Online Courses</b> from available resources across III to VIII semesters under the guidance of assigned Faculty/ Advisor.				

**Course Curriculum of Fourth Semester as per the  
ICAR-Sixth Deans' Committee Report for Academic Programme in  
HORTICULTURE**

**Course Layout**

**B.Sc. (Hons.) Horticulture**

**Semester: IV (New)  
2025-26**

**w.e.f. Academic Year:**

Sr. No.	Course No.	Course Title	Credit Hrs.	Remark
1.	VAC-242	Agricultural Informatics and Artificial Intelligence	3(2+1)	--
2.	HORT-242	Precision Farming and Protected Cultivation	3(2+1)	--
3.	VS-243	Seed Production of Vegetable, Tuber and Spice Crops	3(2+1)	--
4.	FMP-241	Farm Power and Machinery for Horticulture	3(2+1)	--
5.	HORT-243	Urban and Peri-Urban Horticulture	2(1+1)	--
6.	ENTO-241	Pest Management of Horticultural Crops	3(2+1)	--
7.	AGRO-242	Introductory Agrometeorology and Climate Change	2(1+1)	--
8.	SEC-246	Skill Enhancement Courses-VI <sup>#</sup> (To be offered from the list of SEC Courses)	2(0+2)	--
9.	OC-1/OC-2/..	Online Courses/ MOOCs <sup>†</sup>	As opted by student	NG
<b>Total Credit Hrs.=</b>			<b>21(12+9)</b>	<b>G</b>
VAC: Value-added Course, SEC: Skill Enhancement Course, OC: Online Course, G: Gradual, NG: Non-gradual				
<b>Post-IV Semester (Only for Exit option for award of UG-Diploma)</b>				
10.	INT-242	Internship (10-Week)	10(0+10)	NG

† **Note:** It is mandatory for each Student to complete **total 10 credits** (Non-gradual) of **Online Courses** from available resources across III to VIII semesters under the guidance of assigned Faculty/Advisor.

**Course Curriculum of Fifth Semester as per the  
ICAR- V th Deans' Committee Report for Academic Programme in  
HORTICULTURE**

**Course Layout**

**B.Sc. (Hons.) Horticulture**

**Semester: V (Old)**

**Academic**

**Year: 2025-26**

Course no.	Courses	Credit		
		Theory	Practical	Total
<b>A)</b>	<b>Core courses</b>			
H/FS-358	Plantation Crops	2	1	3
H/FS-359	Orchard and Estate Management	1	1	2
H/ VS-356	Breeding of Vegetables, Tuber and spice Crop	2	1	3
H/FL-353	Principles of Landscape Architecture	0	1	1
	<b>Sub total</b>	<b>5</b>	<b>4</b>	<b>9</b>
<b>B)</b>	<b>Basic science</b>			
H/EXTN-352	Communication Skill and Personality Development	1	1	2

	Sub total	1	1	2
H/AGRO-351	Organic Farming	1	1	2
	<b>Sub total</b>	<b>1</b>	<b>1</b>	<b>2</b>
<b>D)</b>	<b>Plant protection</b>			
H/ENTO-354	Apiculture, Sericulture and Lac culture	1	1	2
H/PATH-352	Diseases of Fruit, Plantation, Medicinal and Aromatic Crops	2	1	3
	<b>Sub total</b>	<b>3</b>	<b>2</b>	<b>5</b>
<b>E)</b>	<b>Other Courses</b>			
H/MAP-351	Medicinal and Aromatic Crops	2	1	3
H/HORT-352	Introductory Agroforestry	1	1	2
	<b>Sub total</b>	<b>3</b>	<b>2</b>	<b>5</b>
	<b>Total Credits (A+B+C+D+E)</b>	<b>13</b>	<b>10</b>	<b>23</b>

**Course Curriculum of Sixth Semester as per the  
ICAR- V th Deans' Committee Report for Academic Programme in  
HORTICULTURE**

**Course Layout**

**B.Sc. (Hons.) Horticulture**

**Semester: VI (Old)  
2025-26**

**Academic Year:**

Course no.	Courses	Credit		
		Theory	Practical	Total
<b>A)</b>	<b>Core courses</b>			
H/ VS-367	Seed Production of Vegetables, Tuber and Spice Crops	2	1	3
H/PHT-362	Postharvest Management of Horticultural Crops	2	1	3
H/PHT-363	Processing of Horticultural Crops	1	2	3
H/FL-364	Breeding and Seed Production of Ornamental Plants	2	1	3
	<b>Sub total</b>	<b>7</b>	<b>5</b>	<b>12</b>
<b>B)</b>	<b>Basic science</b>			
H/ECON-362	Horti-Business Management	2	0	2
H/EXTN-363	Entrepreneurship Development and Business Management	1	1	2
	<b>Sub total</b>	<b>3</b>	<b>1</b>	<b>4</b>
<b>C)</b>	<b>Natural Resource Management</b>			
H/ENGG-362	Farm Machinery and Power Engineering	1	1	2

	<b>Sub total</b>	<b>1</b>	<b>1</b>	<b>2</b>
<b>D)</b>	<b>Plant Protection</b>			
H/PATH-363	Diseases of Vegetables, Ornamentals and Spice Crops	2	1	3
H/PATH-364	Mushroom Production Technology	0	1	1
H/ENTO-365	Nematode Pests of Horticultural crops and their Management	1	1	2
	<b>Sub total</b>	<b>3</b>	<b>3</b>	<b>6</b>
	<b>Total Credits (A+B+C+D)</b>	<b>14</b>	<b>10</b>	<b>24</b>

**Course Curriculum of Seventh Semester as per the  
ICAR- V th Deans' Committee Report for Academic Programme in  
HORTICULTURE**

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## Course Layout

### B.Sc. (Hons.) Horticulture

Semester: VII (Old)

Academic Year: 2025-

26

#### Rural Horticultural Work Experience Programme

Sr.No.	Title of the Course	Credits
1	STUDENT READY – Placement in Industries	0+10
2	STUDENT READY- Placement in Villages	0+10
	<b>Total</b>	<b>20 (0+20)</b>

#### Placement In Villages

Sr.No.	Title of the Course	Credits
1	Registration, Orientation and Placement	1 week
2	Actual RHWE work in villages	8 weeks
3	Examination	1 week
	<b>Total</b>	<b>10 weeks</b>

Sr. No.	Course No	Course Title	Credits
1	RHWE (H)-471	Fruit, vegetable and flower Production and Post-harvest management and technology of Horticulture crops.	0 + 5 = 5
2	RHWE ECON-471	Economics of Horticultural crops.	0 + 1 = 1

3	RHWE EXTN- 471	Extension education & Rural Sociology	0 + 1 = 1
4	RHWE ENT-471	Integrated Pest and disease Management.	0 + 2 = 2
5	RHWE SSAC- 471	Soil test & Integrated Nutrient Management	0 + 1 = 1
		<b>Total</b>	<b>0 + 10 = 10</b>

### **Nursery Production & Management**

<b>Sr.No.</b>	<b>Course No</b>	<b>Course Title</b>	<b>Credits</b>
1	IND (H)-472	Nursery Production	0 + 5 = 5
2	IND (H)-473	Economics of Horticultural crops.	0 + 1 = 1
3	IND (H)-474	Extension education & Rural Sociology	0 + 1 = 1
4	IND (H)-475	Integrated Pest and disease Management.	0 + 2 = 2
5	IND (H)-476	Soil test & Integrated Nutrient Management	0 + 1 = 1
		<b>Total</b>	<b>0 + 10 = 10</b>

**Course Curriculum of Eighth Semester as per the  
ICAR- V th Deans' Committee Report for Academic Programme in**

## HORTICULTURE

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### Course Layout

### B.Sc. (Hons.) Horticulture

Semester: VIII (Old)

Academic Year: 2025-

26

Sr. No.	Course No	Course Title	Credits
1.	HORT EL-481	Commercial Horticulture	
	HORT EL-481/1	Nursery Management of Horticultural Crops	(0+10)=10
	OR		
	HORT EL-481/2	Nursery Management of Horticultural Crops	(0+10)=10
2	HORT EL-482	Protective Cultivation of High Value Horticulture Crops	(0+10)=10
3	HORT EL-483	Processing of Fruits and Vegetables for Value Addition	(0+10)=10
4	HORT EL-484	Floriculture and Landscape Architecture	(0+10)=10
		<b>Total</b>	<b>(0+20)=20</b>

The student undergoing ELP may be allowed to register for a maximum two courses in which they have failed but completed requisite percentage of attendance.