

Experiential Learning

Following four areas for experiential learning have decided as a module with different activities for learning and evaluation. For this programme, an advisor will guide students and committee appointed by the Dean of faculty should do the evaluation of the projects. The evolution will comprise of skill learnt, proficiency in the project execution, project report and vise-voce.

Sr. No.	Module No.	Title of the module	credits	Duration	Semester
1	H/HORT EL 471	Nursery production and Management	0+20=20	20 Weeks	VII
2	H/HORT EL 472	Floriculture and Landscape gardening	0+20=20	20 Weeks	VII
3	H/HORT EL 483	Protected cultivation of high value horticultural crops	0+20=20	20 Weeks	VIII
4	H/HORT EL 484	Post harvest and value addition	0+20=20	20 Weeks	VIII

Registration

The student shall register for experiential learning at the college on the date notified by the MCAER/University. After registration at the respective college, modules will be allotted to the student.

H/HORT EL-471

**Nursery Production and
Management**

(4 Sub Modules)

Credits: 0+20=20

Semester: VII

1. Course No. H/HORT EL- 471/1

Title : Importance and Establishment of Nursery

Credit: 0+4=4

Topic to be covered

Sr. No.	Topics	Discipline
1	Importance and scope present status of Horticulture nurseries – in Maharashtra and India.	Horticulture
2	Nursery Act- Legislation/rules, regulation, producer of obtaining license.	Horticulture
3	Selection: site, structure, irrigation system, containers, Nursery tools, etc.	Horticulture
4	Planning and layout of nursery	Horticulture
5	Propagation structure	Agril. Engg.
6	Selection and maintenance of mother orchards	Horticulture
7	Preparation outline Nurseries (map on paper indicating different components)	Horticulture
8	Establishment of Nursery Structure	Horticulture
9	Establishment of irrigation system	Agril. Engg.
10	Establishment of nursery pathway and arrangement of electric power.	Horticulture
11	Establishment of compound, working shade, field preparation.	Horticulture
12	Establishment of mother orchard.	Horticulture
13	Different type of container, media, tools, plant protection equipment.	Horticulture
14	Preparation of nursery project.	Economics

2. Course No. H/HORT EL-471/2

Course Title: Commercial Production and Maintenance of Nursery

Credits:

0+8=8

Topics to be Covered

Sr. No.	Topics	Discipline
1	Maintenance of mother orchards.	Horticulture
2	Procurement/preparation of scion material of commercially important varieties Horticulture crops.	Horticulture
3	Selection and raising of roots stocks	Horticulture
4	Commercial production of rooted cutting, grafts, layers, seed, bulbs corns, etc. of Horticultural crops.	Horticulture
5	Selection and preparation of scion material of commercially important Horticultural crops	Horticulture
6	Selection and raising of rootstock for different Horticultural Crops.	Horticulture
7	Raising seedlings: vegetable, seasonal flower, fruits, ornamental plants.	Horticulture
8	Propagation by cutting of fruits and flowers, ornamental plants.	Horticulture
9	Propagation by grafting, layering and building viz. fruit crops and flowers crops.	Horticulture
10	Propagation bother plant part viz. bulbs corns, root, cutting, rhizomes.	Horticulture

3. Course No. H/HORT EL-471/3
Course Title: Nursery Management

Credits: 0+4=4

Topics to be Covered

Sr. No.	Topics	Discipline
1	After care nursery plants, viz; watering shade, nutrient management, use of plant growth regulators etc.	Horticulture
2	Labeling and packaging of nursery plants and display of sale.	Horticulture
3	Protection from natural calamities, theft etc.	Horticulture
4	Identification and control of diseases.	Pathology
5	Identification and control of pests.	Entomology
6	Protection from natural calamities, excess light, shade, heavy rains, high and low humidity.	Horticulture
7	Use of growth regulators	Physiology
8	Nutrient management and after care of nursery plants.	SSAC
9	Care during the labeling, packaging, transport and sale of plant.	Horticulture

4. Course No. H/HORT EL-471/4
Course Title: Economics of Nursery production

Credits: 0+4=4

Topics to be Covered

Sr. No.	Topics	Discipline
1	Estimation of cost of production of nursery plants.	Economics
2	Labour management in nurseries.	Horticulture
3	Problem and constraints in nursery and other solution.	Horticulture
4	Cost Benefit ratio.	Economics
5	Constraints in nursery and their solutions	Horticulture
6	Marketing of nursery plants.	Horticulture
7	Entrepreneurship development in nursery	Extension
8	Visit to different plant nursery unit/Industry.	Horticulture
9	Report writing.	Horticulture

Department of Horticulture

Semester : VII Year : 2010-11

Class : Sr. B. Sc. (Hort.) Credits : (0 + 20)

H/HORT EL-471 Experiential learning in "Nursery production and management"

Time Table

Time	Day					Saturday	Sunday
	Monday	Tuesday	Wednesday	Thursday	Friday		
08.00-10.00	HORT	HORT	HORT	HORT	HORT	Field work and Review work	
10.00-12.00	HORT	SSAC	PATH	PHTSIO	HORT		
14.00-16.00	EXTN	ENT	Agril. Enng.	ECON	ECON		
16.00-18.00	HORT	HORT	HORT	HORT	HORT		

H/HORT EL-472

**Floriculture and Landscape
Gardening**
(3 Sub modules)

Credits: 0+20=20

Semester : VII

1. Course No. H/HORT EL-472/1

Course Title: Production technology of Major Flower crops

Credits: 0+8=8

Topics to be Covered

Sr. No.	Topics	Discipline
1	Scope importance and constraints/problems of floriculture in India.	Horticulture
2	Production technology of major flower crops.	Horticulture
	i. Marigold	Horticulture
	ii. Aster	Horticulture
	iii. tuberose	Horticulture
	iv. Gladiolus	Horticulture
	v. chrysanthemum	Horticulture
	vi. Gaillardia	Horticulture
	vii. Jasmine	Horticulture
	viii. Rose	Horticulture
	ix. Lily	Horticulture
3	Pest management in above flower crops	Entomology
4	Diseases management in above flower crops	Pathology
5	Marketing of flowers.	Horticulture
6	Post harvest technology for drying of cut flowers	Horticulture
7	Dehydration techniques for drying of flowers	Horticulture
8	Identification of commercial flower crops and their varieties.	Horticulture
9	Raising of seedling of flower crops.	Horticulture
10	Selection of site, layout and planting	Horticulture
11	Propagation techniques for flower crops.	Horticulture
12	Training, pruning, nutrient management, plant protection and cultural practice.	Horticulture
13	Harvesting, grading, packing, and marketing of flowers.	Horticulture
14	Drying of cut flowers.	Horticulture
15	Working out economics of production of major flower crops.	Economics
16	Preparation of project proposal	Economics
17	Entrepreneurship development in Floriculture	Extension

2. Course No. H/HORT EL-472/2

Course Title: Production technology of Ornamental Crops

Credits: 0+4=4

Topics to be Covered

Sr. No.	Topics	Discipline
1	Production Technology of Ornamental Plants- climbers.	Horticulture
	Creepers, shrubs, trees	Horticulture
	Annual, bulbs, plants	Horticulture
	Cacti succulents and palms and Bonsai	Horticulture
		Horticulture
2	Packing and marketing.	Horticulture
3	Identification of climbers, shrubs, annuals, trees, annuals, bulbous plants, cacti, succulents and palms.	Horticulture
4	Propagation of climbers, shrubs, annual, perennial, bulbous plants.	Horticulture
5	Training and pruning of climbers, shrubs, trees, staking, supporting, pinching, bending, etc.	Horticulture
6	Raising of seedlings, potting, repotting, raising of foliage and ornamental plants. Use of growth regulator in propagation of flower crops.	Horticulture
7	Intercultural operation, manuring, fertilization, irrigation, special techniques, use of software in landscaping.	Horticulture
8	Harvesting, grading, sale and preservation of flowers.	Horticulture
9	Preparation of Bonsai and flower arrangement.	Horticulture

College of Horticulture, Akola

Semester : VII

Class : Sr. B. Sc. (Hort) Credits : (0 + 20)

H/HORT EL-472 Experiential learning in "Floriculture and Landscape gardening"

Subject wise credit distribution :

Subject	Credits
Horticulture	16
Economics	1
Extension	1
Entomology	1
Pathology	1

Distribution of marks (Subject wise)

Sr. No.	Particular	Subject wise					Total Marks
		Hort (0+16)	Econ (0+1)	Extm (0+1)	Ento. (0+1)	Path (0+1)	
1	Attendance (10%)	80	5	5	5	5	100
2	Diary (10%)	80	5	5	5	5	100
3	Preparation of project report (10%)	80	5	5	5	5	100
4	Practical examination/ Demonstration (20%)	160	10	10	10	10	200
5	Work performed (40 %)	320	20	20	20	20	400
6	Viva-voce (10 %)	80	5	5	5	5	100
	Total	800	50	50	50	50	1000