M.Sc. (Horticulture) – Floriculture and Landscape architecture

FLA 611 BREEDING OF FLOWER CROPS AND ORNAMENTAL PLANTS (2+1)
Course Outcome

CO1- The students must be able to demonstrate different breeding techniques in flower crops.
CO2- The students will become capable of working on breeding programmes in flower crops.
CO3- Will get insights into IPR issues and hybrid seed production in commercial flower crops.

FLA 612 PRODUCTION TECHNOLOGY OF LOOSE FLOWERS (2+1)
Course Outcome
CO1- The student will have knowledge on advanced production technologies in growing flower crops.
CO2- The students will be able to diagnose production problems in loose flowers.
CO3- The students will become capable of managing a open field floriculture unit from planting to harvest.

FLA 613 PRODUCTION TECHNOLOGY OF CUT FLOWERS (2+1)
Course Outcome
CO1- The student will have knowledge on advanced production technologies in growing cut flower crops.
CO2- The students will be able to diagnose production problems in cut flowers.
CO3- The students will become capable of managing a floriculture unit from planting to harvest.

HOR 621 GROWTH REGULATION AND STRESS MANAGEMENT IN HORTICULTURAL CROPS (2+1)
Course Outcome:

CO 1: Students will be able to understand the physiology of growth and development and the role of growth regulators.
CO 2: Will be able to recommend growth regulation techniques and PGRs for production problems in horticultural crops.
CO3: Will be able to recommend cultural, chemical and biotechnological technologies for abiotic ad biotic stresses.

FLA 621 ORNAMENTAL AND LANDSCAPE GARDENING (2+1)
Course Outcome

CO1- The student will have knowledge on fundamental gardening principles which form the basis for learning landscape architecture.
CO2- The students will be able to identify different soft and hard landscape elements..
CO3- The students will become capable of designing a garden project and prepare the cost economics.
CO4- The students prepare garden layouts to a specific scale for big commercial projects.

FLA 622 CAD FOR OUTDOOR AND INDOORSCAPING (1+1)
Course Outcome
CO1- The student will gain skill on CAD drawing tools in landscape designing.
CO2- The student will be able to design a garden plan with Computer Aided Designing tools.
CO3- Student will gain skill in working with ARCHICAD

FLA 623 VALUE ADDITION IN FLOWERS (1+1)

Course Outcome

CO1- The students must be able to demonstrate important value addition processes in flower crops.

CO2- Students will gain skill in production of floral crafts and dry flower making.

CO3- Will gain skill and proficiency in floral arrangements.

FLA 624 TURFING AND TURF MANAGEMENT (2+1)

Course Outcome

CO1- The students will be able to prepare a turf establishment project and to execute the same.

CO2- The students will able to manage turf in commercial units.

OPCHOR711 PROPAGATION AND NURSERY MANAGEMENT OF HORTICULTURAL CROPS (2+1)

Course Outcomes

CO1- gain knowledge onphysiology, principles, factors influencing, media and methods of propagation of Horticultural crops

CO2-gain skill in all propagation methods and technology for commercial scale adoption

CO3- Becomes capable of managing commercial nursery business.

OPC-FLA 712 ORNAMENTAL HORTICULTURE (2+1)

Course Outcomes

CO1: The students will be able to demonstrate laying out various types of garden

CO2: The students will be able to design gardens and prepare business plans

CO3: The students will be able recommend ornamental plants various zones, vertical farming and produce various grades of plants for trade

M.Sc. (Horticulture) – FRUIT SCIENCE

FSC 612 TROPICAL AND DRY LAND FRUIT PRODUCTION (2+1)
Course Outcome

CO1-Students will be able to appreciate the research advancements made in the Tropical and dry land fruit crops.
CO2-They will be able to recommend suitable package of practices for enhanced production of Tropical and dry land fruit crops.

HOR 621 GROWTH REGULATION AND STRESS MANAGEMENT IN HORTICULTURAL CROPS (2+1)
Course Outcome:
CO 1: Students will be able to understand the physiology of growth and development and the role of growth regulators.
CO 2: Will be able to recommend growth regulation techniques and PGRs for production problems in horticultural crops.
CO3: Will be able to recommend cultural, chemical and biotechnological technologies for abiotic ad biotic stresses.

HOR 622 PROTECTED AND PRECISION HORTICULTURE (2+1)
Course outcome :

CO1- At the end of the course students will be able to suggest location specific protected structure for various horticultural crops.
COI2- The students will be able to design structures, micro irrigation and fertigation assembly.
CO3-The Students will be able to prepare media and prescribe sterilization techniques and mediafor regular and hydroponic production system.
CO4- The student will be able to recommend frontier technologies like Remote sensing, GIS, GPS and Precision horticulture.

FSC 621 SUBTROPICAL AND TEMPERATE FRUIT PRODUCTION (2+1)
Course Outcome

CO1-Students will be able to appreciate the research advancements made in the Subtropical and Temperate fruit crops.
CO2-They will be able to recommend suitable package of practices for enhanced production of Subtropical and Temperate fruit crops.

FSC 622 BIOTECHNOLOGY OF FRUIT CROPS (1+1)
Course Outcome

CO1: The students will be able to demonstrate different techniques in biotechnology.
CO2: They will be able to prepare a proposal for establishment of a tissue culture laboratory.

FSC 623 ORGANIC FRUIT PRODUCTION (1+1)
Course Outcome

CO1: The students will be able to recommend suitable organic package of practices for enhanced production of fruit crops.
CO2: They will be able to establish various organic input production units.

FSC 624 POST HARVEST TECHNOLOGY OF FRUIT CROPS (2+1)

Course Outcome
CO1:The students will be able to demonstrate different methods of processing of fruit crops
CO2: They will be able to prepare a proposal for establishing a fruit processing unit.

OPCHOR711 PROPAGATION AND NURSERY MANAGEMENT OF HORTICULTURAL CROPS (2+1)

Course Outcomes
CO1- gain knowledge onphysiology,principles, factors influencing, media and methods of propagation of Horticultural crops
CO2-gain skill in all propagation methods and technology for commercial scale adoption
CO3- becomes capable of managing commercial nursery business.

OPC - FSC 712 GENETIC RESOURCES AND CONSERVATION OF FRUIT CROPS (2+1)
Course Outcomes

CO1: The students will be able to understand the strategies in conservation and utilization of fruit crop biodiversity
CO2:They will be able to demonstrate different techniques in *ex -situ* conservation.
CO3:They will be able to identify underutilized minor fruit crops.

M.SC. (HORTICULTURE) – PLANTATION, SPICES, MEDICINAL AND AROMATIC PLANTS

PSM 611 BREEDING OF PLANTATION AND SPICE CROPS (2+1)

Course Outcome

CO1- The students must be able to demonstrate different breeding techniques in plantation and spice crops

CO2- The student will develop the capacity to become a breeder in plantation and spice crops.

PSM 612 BREEDING OF MEDICINAL AND AROMATIC CROPS (2+1)

Course Outcome

CO1- Students will be able to understand the different breeding methods followed in medicinal and aromatic crops.

CO2- They will be able to demonstrate and carry out different techniques employed in breeding of medicinal and aromatic.

HOR 621 GROWTH REGULATION AND STRESS MANAGEMENT IN HORTICULTURAL CROPS (2+1)

Course outcome:

CO 1: Students will be able to understand the physiology of growth and development and the role of growth regulators.

CO 2: Will be able to recommend growth regulation techniques and PGRs for production problems in horticultural crops.

CO3: Will be able to recommend cultural, chemical and biotechnological technologies for abiotic ad biotic stresses.

PSM 621 PRODUCTION TECHNOLOGY OF MEDICINAL AND AROMATIC CROPS (2+1)

Course Outcome

CO1: Students will be able to appreciate the research advancements made in medicinal and aromatic crops.

CO2: They will be able to recommend suitable package of practices for enhanced production of medicinal and aromatic crops.

PSM 623 ORGANIC CULTIVATION OF SPICES AND PLANTATION CROPS PRODUCTION (1+1)

Course Outcome

CO1:The students will be able to recommend suitable organic package of practices for enhanced spice production

CO2: They will be able to establish various organic input production units.

PSM 624 UNDER EXPLOITED MEDICINAL AND AROMATIC CROPS (1+1)

Course Outcome

CO1: The students must be able to identify the RET medicinal plants and understand the problems in conservation

CO2: The student will develop skill in harvesting and packaging techniques for underutilized medicinal crops

PSM 625 PROCESSING OF PLANTATION, SPICE, MEDICINAL AND AROMATIC CROPS (2+1)

Course Outcome

CO1:The students will be able to demonstrate different methods of processing of different spices and plantation crops.

CO2: The student will develop skill in solvent extraction and distillation of essential oil from aromatic plants

OPCHOR711 PROPAGATION AND NURSERY MANAGEMENT OF HORTICULTURAL CROPS (2+1)

Course Outcomes

CO1- gain knowledge onphysiology,principles, factors influencing, media and methods of propagation of Horticultural crops

CO2-gain skill in all propagation methods and technology for commercial scale adoption

CO3- becomes capable of managing commercial nursery business.

OPC-PSM 712 GENETIC RESOURCES AND CONSERVATION OF MEDICINAL AND AROMATIC PLANTS (2+1)

Course Outcomes

CO1: The students will be able to identify the genetic resources of underutilized medicinal and aromatic plants

CO2;They will be able to demonstrate conservation techniques followed for underutilized medicinal and aromatic plants.

CO3;They will be able to identify underutilized minor medicinal crops.

M.SC. (HORTICULTURE) – VEGETABLE SCIENCE

VSC 612 PRODUCTION TECHNOLOGY OF WARM SEASON VEGETABLE CROPS (2 + 1)

Course Outcome

CO1-Students will be able to appreciate the research advancements made in the Warm season vegetables crops.

CO2-They will be able to recommend suitable package of practices for enhanced production of warm season vegetables.

HOR 621 GROWTH REGULATION AND STRESS MANAGEMENT IN HORTICULTURAL CROPS (2+1)

Course outcome:

CO 1: Students will be able to understand the physiology of growth and development and the role of growth regulators.

CO 2: Will be able to recommend growth regulation techniques and PGRs for production problems in horticultural crops.

CO3: Will be able to recommend cultural, chemical and biotechnological technologies for abiotic ad biotic stresses.

HOR 622 PROTECTED AND PRECISION HORTICULTURE (2+1)

Course outcome :

CO1- At the end of the course students will be able to suggest location specific protected structure for various horticultural crops.

COI2- The students will be able to design structures, micro irrigation and fertigation assembly.

CO3-The Students will be able to prepare media and prescribe sterilization techniques and media for regular and hydroponic production system.

CO4- The student will be able to recommend frontier technologies like Remote sensing, GIS, GPS and Precision horticulture.

VSC 621 PRODUCTION TECHNOLOGY OF COOL SEASON VEGETABLE CROPS (2 + 1)

Course Outcome

CO1-Students will be able to appreciate the research advancements made in the cool season vegetables crops.

CO2-They will be able to recommend suitable package of practices for enhanced production of cool season vegetables.

VSC 622 BIOTECHNOLOGY OF VEGETABLE CROPS (1+1)

Course Outcome

CO1;The students will gain knowledge on the importance of biotechnology in crop improvement.

CO2:The students will be able to demonstrate different techniques in biotechnology.

CO3: They will be able to prepare a proposal for establishment of a tissue culture laboratory.

VSC 623 ORGANIC VEGETABLE PRODUCTION (1+1)

Course Outcome

CO1: The students will be able to recommend suitable organic package of practices for enhanced production of vegetable crops.

CO2: They will be able to establish various organic input production units.

VSC 624 PRINCIPLES AND PROCESSING OF VEGETABLE CROPS (2+1)

Course Outcome

CO1: The students will be able to demonstrate different methods of processing of vegetable crops

CO2: They will be able to prepare a proposal for establishing a vegetable processing unit.

OPCHOR711PROPAGATION AND NURSERY MANAGEMENT OF HORTICULTURAL CROPS (2+1)

Course Outcomes

CO1- gain knowledge on physiology, principles, factors influencing, media and methods of propagation of Horticultural crops

CO2-gain skill in all propagation methods and technology for commercial scale adoption

CO3- becomes capable of managing commercial nursery business.

OPC VSC 712 HI - TECH VEGETABLE PRODUCTION (2+1)

Course Outcomes

CO1:The students will be able to demonstrate working principles of protected cultivation.

CO2: The students will be able to establish and manage Hi-Tech vegetable production units.