

BACHELOR IN HORTICULTURE
B.Sc. (Hons.) HORTICULTURE

HOR 110 FUNDAMENTALS OF HORTICULTURE (2+1)

COURSE OUTCOMES:

CO 1: The student will be able to understand different branches of horticulture

CO 2: Can demonstrate advanced technologies like training, pruning, etc in horticulture

AGR 111 – FUNDAMENTALS OF AGRICULTURAL METEOROLOGY (1+1)

COURSE OUTCOMES

CO.1: To gain knowledge about role of weather elements in crop growth and how to record various weather elements

CO2: To construct information about effect of solar radiation, temperature and relative humidity on crop production

CO3: To comprehend knowledge with cyclones, EL Nino and La Nino

CO4: To create awareness on cloud types, precipitation, drought, flood and evapo-transpiration.

CO5: To formulate cropping pattern for different Agro climatic zones of India and Tamil Nadu, importance of weather forecasting and remote sensing

SAC 112 PRINCIPLES OF ANALYTICAL CHEMISTRY (1 +1)

COURSE OUTCOMES:

CO.1: Students gain knowledge on basic principles of analytical chemistry

CO.2: Students learn the techniques of standard preparations and various methods of qualitative and quantitative analysis

CO.3: Students develop a conceptual understanding on the principles of different instrumental techniques followed for soil and plant analysis.

GPB 113 FUNDAMENTALS OF PLANT PHYSIOLOGY (2+1)

COURSE OUTCOMES:

CO1: Students will acquire basic knowledge on various functions and processes related to crop productivity

CO2: Will be able to identify the mineral nutrient deficiencies and their symptoms

CO3: Know about the various plant growth regulators and environmental stresses.

CO4: In addition, hands on exposure to preparation of solutions, analysis of pigment composition, estimation of growth analytical parameters,

ENG 114 DEVELOPMENT EDUCATION (0+1) (Alternate courses for non-Tamil students)

COURSE OUTCOME

The student will be able to

CO.1: Understand the basic principles of learning

CO.2: Have career development either in agriculture or allied sciences

CO.3: Write edit and blog scientific articles

CO.4: Have ideas to prepare project

CO.5: Have a knowledge of Entrepreneurship and intrapreneurship

ENG 115 ENGLISH FOR EFFECTIVE COMMUNICATION (0+1)

COURSE OUTCOME:

CO.1: Understand the nuances of the language skills.

CO.2: Read different texts with improved skill

CO.3: Speak and write in English effectively and flawlessly

CO.4: Take part in group discussion activities with confidence

CO.5: Face the challenging interviews with confidence.

CO.6: Become competent with effective communication skills.

PED 116 PHYSICAL EDUCATION (0+1)

COURSE OUTCOMES

CO 1: Physical education encourage through games and sports sportsmanship, Cooperation loyalty, sociality, self-control, leadership, patriotism, friendship, kindness, sympathy, tolerance, forgiveness and other similar qualities.

CO 2: Physical Education helps to improve one's ability for work and self expression in the competitive condition of our modern life.

CO 3: Physical fitness is the combination of strength, flexibility, agility, power, speed, muscular endurance and cardio vascular endurance. It is the ability to enjoy our life and to achieve our goals without undue fatigue or stress. It is the production against the degenerative diseases and feeling of youthfulness, even when we are growing old.

PED 117 PRINCIPLES AND PRACTICES OF YOGA (0 + 1)

COURSE OUTCOMES

CO 1: Knowledge of Yoga Philosophy.

CO 2: Ability to establish the personal health and social health skills to apply.

CO 3: Appropriate application with practice of Asanas, Pranayama, Meditation and relaxation.

HOR 119 PLANT PROPAGATION AND NURSERY MANAGEMENT (1+1)

COURSE OUTCOMES:

CO 1: The student will be able to understand basis of plant propagation and nursery management techniques

CO 2: Can demonstrate advanced propagation methods of horticultural crops.

HOR 120 PRODUCTION TECHNOLOGIES OF TROPICAL AND ARID ZONE FRUITS (2+1)

COURSE OUTCOMES:

CO 1: The student will be able to practice the production technology aspects of tropical and arid zone fruits.

CO 2: Can demonstrate important production techniques and diagnose problems in cultivation of tropical and arid zone fruits.

HOR 121 GROWTH AND DEVELOPMENT OF HORTICULTURAL CROPS (1+1)

COURSE OUTCOMES:

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

ENT 122: FUNDAMENTALS OF ENTOMOLOGY (2+1)

COURSE OUTCOMES:

CO 1: Describe characters of Arthropoda and Insecta, and their relationship and reasons for insect dominance

CO 2 : Explain morphology of insects, its appendages, their modifications, growth and development (metamorphosis) and behaviour

CO 3 : Describe anatomy and physiology of various systems of insects CO 4 : Identify different orders of insects based on their diagnostic characters up to family level CO 5 : Demonstrate different collection and preservation techniques of insects

AGM 123 - FUNDAMENTALS OF MICROBIOLOGY (2+1)

COURSE OUTCOMES :

CO 1: Students gained knowledge on the basic and applied aspects of understanding and exploitation of microorganisms for the welfare of human kind.

CO 2: Students gained knowledge on the historical developments and contributions of some scientist in the field of microbiology.

CO 3: Students exposed practical hands on experience in the basic skills employed in microbiological laboratories, which will equal them to carryout independent research in microbiological/ biotechnology in feature.

CO 4: Students thoroughly exposed to modern approaches in classification, nutrition, cytology, cultivation, purification and preservation of microorganisms.

CO 5: Students gained knowledge on biotechnological principle like genetic recombination, Immunological science and vaccines.

SAC 124 - FUNDAMENTALS OF BIOCHEMISTRY (2+1)

COURSE OUTCOMES :

CO1: Students gain knowledge about the biochemistry of amino acids, proteins, sugars, carbohydrates, and lipids.

CO2: Students develop a conceptual understanding of different biochemical processes and metabolic pathways specific to plants

CO3: Students learn about the various quantitative aspects of biochemistry including enzyme kinetics, protein ligand binding, analytical techniques, and bioenergetics.

GPB 125 BOTANY OF HORTICULTURAL CROPS (1+1)

COURSE OUTCOMES:

CO 1: The student will be able to differentiate horticultural crops based on its anatomical characters such as root, shoot, leaf, venation etc.

CO2: Will be able to classify the plant species based on its economic importance

CO3: The student will be able to identify the family to which a particular crop belongs to.

CO4: Botanical features and economic importance of different horticultural crop plants belonging to various families will be exposed.

AEC 126 - PRINCIPLES OF ECONOMICS (1+1)

COURSE OUTCOMES: At the end of the course students will be able to

CO1: Understand the important concepts on micro and macro economics.

CO2: To know the principles of economics, concepts like GDP, GNP inflection.

CO3: To acquire the practical exposure on application of economic principles related to agriculture. CO4: To work out the measurement of Human Development Index, welfare indicators.

AHS 127 LIVESTOCK AND POULTRY MANAGEMENT (2+1)

COURSE OUTCOMES:

CO 1: Basic managerial practices of different livestock enterprises such as cattle, sheep, goat, pig and poultry.

CO 2: Clean milk production and its impact on the society.

CO 3: Modern rearing practices of sheep and goat for meat and milk production.

CO 4: Management practices of swine, broiler and layer farming for egg and meat production

CO 5: Integrated farming system (IFS) along plantation and horticultural crops for income generation and entrepreneurship skill development.

COM 128 FUNDAMENTALS OF INFORMATION TECHNOLOGY (1+1)

COURSE OUTCOMES At the end of the course students will be able to

CO1: Know the basic components of the computer and working of each device

CO2: Understand the representation of data in computer.

CO3: Know the fundamentals of Computer Networking and Database.

CO4: Performing common basic functions like editing, formatting, printing, scanning etc using tools.

HOR 210 PRODUCTION TECHNOLOGY OF TROPICAL VEGETABLES (2 + 1)

COURSE OUTCOMES:

CO 1: The student will be able to practice the production techniques and constraints in tropical vegetables.

CO 2: Can demonstrate important production techniques and diagnose problems in cultivation of tropical vegetables.

HOR 211 PRODUCTION TECHNOLOGY OF PLANTATION CROPS, SPICES AND CONDIMENTS (2+1)

COURSE OUTCOMES:

CO 1: At the end of the course, the students will be able to acquire knowledge on various aspects of plantation, spices and condiments.

CO 2: Can demonstrate important production techniques and diagnose problems in cultivation of plantation, spices and condiments

PAT 212 PRINCIPLES OF PLANT PATHOLOGY (2+1)

COURSE OUTCOMES:

CO1: Knowledge on Basic principles of Plant Pathology and of different plant pathogens

CO2: Updated on their recent classification and characters of fungi.

CO3: Updated on their classification and characters of bacteria, Candidatusphytoplasma, virus, viroid, algal and phanerogamic parasites

CO4: Knowledge on role of weather factors in disease development and new generation fungicide molecules and their application

CO5: Trained on new bio control agents, mass multiplication, formulation and their uses

SAC 213 FUNDAMENTALS OF SOIL SCIENCE (2+1)

COURSE OUTCOMES :

CO1: Students gain the knowledge origin of earth, weathering of rocks and minerals

CO2: Students learn to explain soil formation and different soil forming processes.

CO3: Students develop individual skills and ability to analysis the soil for Physical and Chemical properties.

GPB 214 PRINCIPLES OF GENETICS AND CYTOGENETICS (2+1)

COURSE OUTCOMES :

CO1: The student will have knowledge in the basic principles of inheritance

CO2: Will be able to understand the modern concepts of genetics

CO3: Will have the capacity to work out the various classical examples in genetics, crossing over and their interactions

CO4: The student will be able to carryout cytological analysis in breeding populations

AGR 215 – IRRIGATION AND WEED MANAGEMENT FOR HORTICULTURAL CROPS (1+1)

COURSE OUTCOMES :

CO1: To gain knowledge on irrigating horticultural crops

CO2: To gain practical exposure to work out water requirement for different horticultural crops

CO3: To understand importance of water quality and waste water utilization in horticultural crops

CO4: To gain exposure on identification of weeds, herbicides in relation to horticultural crops

CO5: To acquire knowledge on raising horticultural crops with modern techniques on irrigation and weed control methods.

AEC 216 - PRODUCTION ECONOMICS AND FARM MANAGEMENT (1+1)

COURSE OUTCOMES:

At the end of the course students will be able to

CO1: Understand the concepts, nature and Scope of farm management

CO2: Know the importance of farm planning and budgeting.

CO3: Work out the cost of cultivation for different crops

CO4: Importance of farm records and accounts and farm business analysis

ENT 217 ECONOMIC ENTOMOLOGY AND NEMATOLOGY (1+1)

COURSE OUTCOMES :

CO 1: Discuss bee morphology, biology, behaviour and describe apiary selection, bee pasturage and management of bee colony (Apiculture)

CO 2: Explain silkworm types, voltinism, biology and define mulberry cultivation, rearing techniques of silkworms and cocoon harvesting and processing of silk (Sericulture).

CO 3: Describe biology, strains and cultivation of lac and depict minor productive insects and their uses

CO 4: Explain basic morphology and anatomy of nematodes and describe morphology and biology of major plant parasitic nematodes of horticultural crops

AEX 218 RURAL SOCIOLOGY, EDUCATIONAL PSYCHOLOGY AND DIMENSIONS OF EXTENSION EDUCATION (2+1)

COURSE OUTCOMES : At the end of the course students will be able to

CO1: Understand basics concepts related to rural sociology and Basics concepts related

CO2: Apply important sociological and psychological concepts

CO3: Understand fundamentals of extension education and Programme planning

CO4: Gain Knowledge on Educational psychology.

CO5: Identify various rural development programmes

HOR 220 COMMERCIAL FLORICULTURE (2 + 1)

COURSE OUTCOMES:

CO1: The student will be able to practice production technology of cut flowers, loose flowers and principle of growing commercial flowers.

CO2: Student will become eligible to manage a commercial floriculture unit

HOR 221 STUDY TOUR (0 + 1)

COURSE OUTCOMES:

CO1: The student will be able to recognize current trends in production of horticultural crops.

CO2: The student will gain knowledge in agro-climatic zones, crops grown, cultivation practices, socio-cultural and economic status of the farming communities.

ENT 222 PRINCIPLES OF PEST MANAGEMENT (1+1)

COURSE OUTCOMES:

CO 1: Depict basic ecological concepts, understand the impact of ecology on the insect population and concepts of IPM, ETL and EIL.

CO 2: Explain role of biological pest suppression and mass production of various biocontrol agents.

CO 3: Describe non chemical methods of pest management viz., bio rationals and other novel techniques like sterile insect method.

CO 4: Discuss classification and formulations of insecticides, their poisoning effects and antidotes.

CO 5: Describe ill effects of over use of insecticides and define various IPM modules for different crops. CO 6 Demonstrate various IPM protocols for horticultural crops

AGM 223 SOIL AND APPLIED MICROBIOLOGY (2+1)

COURSE OUTCOMES

CO1: The students would thoroughly understand about the role of microorganisms in soil and industries their influence on the plant growth and industrial production historical perspectives.

CO2: The students exposed to soil microbial diversity, their functions in soil transformation of nutrient and humus formation.

CO3: The students would expose to the beneficial and harmful relationships between soil microorganism and different parts of plants.

CO4: The students gained hands on experience o production and quality control aspects of different microbial inoculants and to have self confidence to become successful entrepreneurship.

CO5: Further, they would enriched on the industrial production of important products like fermentation products antibiotics, microbial foods, dairy products, etc.

PAT 224 MUSHROOM CULTURE (0+1)

COURSE OUTCOMES

CO1: Knowledge about different edible mushrooms and basic aspects of Mushroom cultivation.

CO2: Trained in spawn and mushroom cultivation especially indigenous to latest technology.

CO3: Knowledge about the precautionary measures to be followed in mushroom cultivation

CO4: Knowledge to overcome contaminants, pest and diseases problems.

CO5: Expertise in post harvest technology. CO6: Trained to workout cost analysis of mushroom unit and prepare projects to funding agencies.

GPB 225 PRINCIPLES AND METHODS OF PLANT BREEDING (2+1)

COURSE OUTCOMES

CO1: The student will have an idea of the various self and cross pollinated crops

CO2: Will be able to develop expertise in the various crossing and emasculation techniques in various crops

CO3: Students will develop the capacity to carryout independent plant breeding experiments

CO4: The students will be able to multiply and modify the vegetatively propagated crops.

AEC 226 - AGRICULTURAL MARKETING, TRADE AND PRICES (1+1)

COURSE OUTCOMES: At the end of the course students will be able to

CO.1:To understand the marketing channels of different commodities.

CO.2: To gain the practical knowledge of price spread and its implications.

CO.3: To know the role of marketing institutions and trade in agricultural products like WTO and APEDA. CO.4: Gain practical knowledge on FCI, CWC and regulated market activities.

CO.5: Role of CACP for price fixation, and price stabilization measures.

STA 227 AGRICULTURAL STATISTICS (1+1)

COURSE OUTCOME

CO1: Understand and apply fundamental concept of statistical applications in biology

CO2: Acquire theoretical concept and practical exposure of descriptive statistics, testing of hypothesis, correlation, regression and basic design of experiments.

ENG 228 SOFT SKILLS OF EMPLOYABILITY (0+1)

AEG 229 FARM POWER, MACHINERY AND RENEWABLE ENERGY (2+1)

This student will be able to

CO1: Gain knowledge on the various types of IC engines, types and selection of tractors.

CO2: Understand the construction and working of various farm implements like tillage implements, seed drills, transplanters, plant protection and harvesting equipments.

CO3: Gain knowledge on the various renewable energy sources like solar, wind, biogas and biomass energy.

CO4: Understand the construction and working of various solar energy gadgets, wind mill, bio gas plants and production of bio diesel and ethanol from agricultural produce.

AGR 310 CLIMATE CHANGE AND DISASTER MANAGEMENT (1+0)

COURSE OUTCOMES:

CO1: To gain knowledge about causes of climate change and ways to mitigate it

CO2: To understand mitigation strategies for various emergencies

CO3: To understand natural and manmade disasters.

CO4: To apply various mitigation strategies in emergencies

CO5: To formulate various disaster rehabilitation measures

HOR 311 BREEDING OF HORTICULTURAL CROPS (2+1)

COURSE OUTCOMES:

CO1- The student will be able to understand the breeding strategies and outcome of horticultural crops.

CO2- The student will gain skill in hybridization techniques.

HOR 312 BIOTECHNOLOGY OF HORTICULTURAL CROPS (1+1)

COURSE OUTCOMES:

CO1- The student will be able to understand the importance and scope of biotechnology tissue culture techniques in detail.

CO2- The student will gain skill in tissue culture techniques.

HOR 313 URBAN AND ENVIRONMENTAL HORTICULTURE (1+1)

COURSE OUTCOMES:

CO1- Students will be able to understand the issues in urban environment and gain knowledge in urban planning and beautification.

CO2- Student will gain skill in pollution control techniques, urban waste management, sewage water treatment and horticultural therapy

AGM 314 - ENVIRONMENTAL SCIENCE (2+1)

COURSE OUTCOMES :

CO-1: The students gained basic understanding of different ecosystem concepts, energy flow, food web and interactions.

CO-2: The students gained knowledge on the natural resources like renewable and nonrenewable, Biodiversity concept etc.

CO-3: The students would expose to different types of pollutions and their impact on environment and agriculture.

CO-4: The students gained knowledge o management of different types of solid wastes and waste waters.

CO-5: The students would be exposed to the laws ad acts in forest with respect to environment.

SAC 315 SOIL FERTILITY, FERTILIZERS AND MANURES (2+1)

COURSE OUTCOMES:

CO 1: Students gain a basic knowledge on essential nutrients.

CO 2: Students familiarize with source, forms, mobility, transformation, fixation, losses and availability of macro and micro nutrients.

CO 3: Students acquire themselves with knowledge on manufacturing of fertilizers at industry level.

CO 4: Students acquired practical knowledge on precision farming and organic farming.

CO 5: Students may be visit fertilizer mixing unit.

AGR 316 – PRODUCTION TECHNOLOGY OF FIELD CROPS (2+1)

COURSE OUTCOMES:

CO1: To have practical knowledge on nursery preparation and crop production for various cereal crops
CO2: To understand the importance of principles of crop production for various major millets.

CO3: To understand knowledge about pulse cultivation and importance of pulse intercropping

CO4: To impart detailed knowledge of sugar crops and oilseeds cultivation.

CO5: To identify various fibre, tuber and narcotic crops along with production technologies viz., fertilizer, plant protection and irrigation management principles

ENT 317 INSECTS, MITES AND NEMATODE PESTS OF HORTICULTURAL CROPS AND THEIR MANAGEMENT (2+1)

COURSE OUTCOMES

CO1: Define bionomics, symptoms of damage and integrated management strategies for pests of Vegetable and Tuber Crops

CO2: Discuss bionomics, symptoms of damage and integrated management strategies for pests of tropical fruit Crops

CO3: Explain bionomics, symptoms of damage and integrated management strategies for pests of temperate fruit Crops

CO4: Define bionomics, symptoms of damage and integrated management strategies for pests of Plantation and Spice Crops

CO5: Discuss bionomics, symptoms of damage and integrated management strategies for pests of Flower Crops, Medicinal Plants, Lawn and Stored products

CO6: Illustrate identification and biology of major pests of horticultural crops and storage through rearing and collection

AEC 318 – AGRI BUSINESS MANAGEMENT AND ENTREPRENEURSHIP (1+1)

COURSE OUTCOMES: At the end of the course students will be able to

CO1: To understand the opportunities in agribusiness sectors

CO2: To understand the marketing mix, and supply chain management in agribusiness.

CO3: To know the management functions and how to prepare agribusiness project.

EG 319 FUNDAMENTALS OF SOIL AND WATER CONSERVATION ENGINEERING (2+1)

COURSE OUTCOME

CO1: Student can under gain understanding on basics of soil and water conservation engineering to the undergraduate students

CO2: Can able to define irrigation system and drainage facility for agricultural land

HOR 320 ORGANIC HORTICULTURE AND SYLVI HORTICULTURE (2+1)

COURSE OUTCOMES:

CO1: Students will be able to grasp the importance of organic horticulture.

CO2: Will become skillful in practicing organic cultivation practices in farms and organic certification industry

CO3: To understand the importance of growing trees as livelihood for the village communities and establishing of tree nurseries.

CO4: To gain skill on arboriculture and agro forestry management

HOR 321 PRODUCTION TECHNOLOGY OF TEMPERATE AND SUB TROPICAL FRUITS (2 + 1)

COURSE OUTCOMES:

CO1- To understand the cultivation aspects of temperate and sub tropical fruit crops and its nursery management practices.

CO2- Will gain skill on important cultivation techniques in temperate and subtropical fruits.

HOR 322 PRODUCTION TECHNOLOGY OF TEMPERATE AND SUBTROPICAL VEGETABLES (2+1)

COURSE OUTCOMES:

CO1- At the end of the course the students will gain knowledge on the scenario of vegetable cultivation, advanced production technologies and post harvest handling of temperate and subtropical vegetable crops.

CO2- Will gain skill on important cultivation techniques in temperate and subtropical vegetable crops.

HOR 323 ORNAMENTAL AND LANDSCAPE GARDENING (2+1)

COURSE OUTCOMES:

CO1- At the end of this course, the students will be able to plan and design the garden of their own with all the elements of garden and principles.

CO2- The student will gain skill in manual drawing and execution of garden.

PAT 324 DISEASES OF HORTICULTURAL CROPS AND THEIR MANAGEMENT (3+1)

COURSE OUTCOMES

CO1: Having knowledge about biotic, abiotic and mesobiotic agents causing diseases and their classification.

CO2: Knowledge about Integrated Crop Management / Integrated Disease Management of Horticultural crops.

CO3: Knowledge about epiphytological conditions required for plant disease development on various diseases at the end of course

CO4: Trained in identifying and managing post harvest diseases of crops.

HOR 325 PROTECTED CULTIVATION AND PRECISION HORTICULTURE (2+1)

COURSE OUTCOMES :

CO1- Students will be able to understand the protection technology of horticultural crops, its advances and precision horticulture.

CO2- The student will gain skill in managing precision horticulture units.

HOR 326 PROCESSING AND POST-HARVEST MANAGEMENT OF HORTICULTURAL CROPS (2+1)

COURSE OUTCOMES:

CO1- Students will be able to understand the post harvest technology aspects, handling methods, storage methods, packaging and preservation.

CO2- Will gain skill in doing post harvest operations pertaining to Horticultural products. CO3- Will gain skills to operate post harvest practices in industries.

AEC 327 - AGRICULTURAL FINANCE, BANKING AND CO-OPERATION (1+1)

COURSE OUTCOMES : At the end of the course students will be able to

CO 1: To understand the functions of various institutions involved in farm financing.

CO 2: To know the principles of credit, 5c's, 3R's and time value of money.

CO 3: To gain on knowledge on microfinance, role of SHG's, NGO.

CO 4: To understand risk mitigating measures like agricultural insurance schemes available for the benefits of farmers.

AEX 328-EXTENSION METHODOLOGIES AND TRANSFER OF AGRICULTURAL TECHNOLOGY (1+1)

COURSE OUTCOMES : At the end of the course students will be able to

CO 1: Understand extension methods and approaches used for transfer of agricultural technology.

CO 2: Understand various models of communication and communication barriers.

CO 3: Gain expertise on e-Extension and Agricultural journalism

CO 4: Prepare and use of different extension teaching methods.

HOR 329 PRODUCTION TECHNOLOGY OF MEDICINAL AND AROMATIC CROPS (2+1)

COURSE OUTCOMES:

CO1- Students will be able to understand the cultivation aspects, advances and developments in production and processing of medicinal and aromatic crops.

CO2- Will become eligible to in medicinal plant cultivation units

Student Ready Component –I: Rural Horticultural Work Experience (RHWE)

COURSE OUTCOMES: At the end of the course students will be able to

CO 1: Understand rural situation, institutions and organizations.

CO 2: Understand customs and value systems of the villagers.

CO 3: Familiarize with cropping pattern and extend of adoption agricultural practices

CO 4: Undertake field visits and agricultural demonstrations.

RHWE AGR 411 Agronomical Interventions (0 + 2)

COURSE OUTCOMES:

CO 1: To gain knowledge on the crop growth and yield of the crops grown by the contact farmer.

CO 2: To formulate different cropping systems according to the various agro eco system.

CO 3: To understand information pertaining to the different crops and their cultivation methods.

CO 4: To formulate recommendation practices for the major crops grown in their village.

CO 5: To analyse the various indigenous technologies practiced by farmers

RHWE HOR-412 Horticultural Interventions (0 + 3)

COURSE OUTCOMES:

CO1: Student will learn basic field knowledge and practical problems in production of horticultural crops

CO2: Can know to prepare calender of operation for all horticultural crops

CO3: Can eligible manage horticultural farm

RHWE CPT-413 Crop Protection Interventions (Entomology and Plant Pathology (0 + 4)

COURSE OUTCOMES:

CO 1: Illustrate identification of pest problems in farmers' fields

CO 2: Analyse various pest management practices practiced by farmers

CO 3: Demonstrate practical applications of pest management techniques learnt

CO 4: Manage real field situations in pest management scenarios

AEX 414 ALL INDIA STUDY TOUR (0+1)

COURSE OUTCOMES:

CO 1: Illustrate identification of pest problems in farmers' fields

CO 2: Analyse various pest management practices practiced by farmers

CO 3: Demonstrate practical applications of pest management techniques learnt

CO 4: Manage real field situations in pest management scenarios

STUDENT READY COMPONENT –II-HIA 415 HORTICULTURAL INDUSTRIAL ATTACHMENTS (0+6)

COURSE OUTCOMES: At the end of the course students will be able to

CO 1: Have practical knowledge on different Horti-based industries situated in and around the neighboring districts

CO 2: Start own business and become an entrepreneur

CO 3: Prepare project report

STUDENT READY COMPONENT 3 – EXPERIENTIAL LEARNING/SKILL DEVELOPMENT (0+20)

EXP HOR 421 COMMERCIAL HORTICULTURAL NURSERY (0+10)

COURSE OUTCOMES

CO1-Students can become eligible to undertake end to end technical and management aspects of a commercial nursery

CO2- Can practice skills in various propagation methods and care of nursery plants.

CO3- Will gain ability to manage a commercial horticultural nursery business

EXP HOR 422 PROTECTED CULTIVATION OF VEGETABLE CROPS (0+10)

COURSE OUTCOMES

CO1-Students can become eligible to undertake end to end technical and management aspects of a protected cultivation unit for vegetable crops

CO2- Can practice skills related to greenhouse maintenance and production techniques in hi-tech vegetable production unit.

CO3- Will gain ability to manage a protected cultivation unit for vegetable production.

EXP HOR 423 PROTECTED CULTIVATION OF CUT FLOWER CROPS (0+10)

COURSE OUTCOMES

CO1-Students can become eligible to undertake end to end technical and management aspects of a protected cultivation unit for cut flowers

CO2- Can practice skills related to greenhouse maintenance and production techniques in hi-tech floriculture units.

CO3- Will gain ability to manage a protected cultivation unit for cut flower production.

EXP HOR 424 ORGANIC VEGETABLE PRODUCTION (0+10)

COURSE OUTCOMES

CO1-Students can become eligible to undertake end to end technical and management aspects of an organic vegetable production unit

CO2- Can practice skills in various organic production techniques and regulatory practices

CO3- Will gain ability to manage an organic vegetable production unit and expert in organic regulatory certification process.