

COURSE OUTCOME B.Sc. Botany BOT-100 Fundamentals of Botany	
At the end of this course , the students will be able to	
CO-1	Outline the classification of life and identify the characteristics features of plant kingdom.
CO-2	Summarize the evolutionary history of plants.
CO-3	Outline the different branches in botany and their relation to other sciences.
CO-4	Analyse the morphological features of plants.
CO-5	Examine the stages of plant growth, plant cells, processes and its responses.

COURSE OUTCOME B.Sc. Botany BOT-111 Plants in Everyday Life	
At the end of this course , the students will be able to	
CO-1	Recall various economically and medicinally important plant species used in day-to-day life.
CO-2	Explain the uses of economically important plants and illustrate the processing of various plant parts.
CO-3	Analyze the utilization of various plant resources in day-to-day life.
CO-4	Apply theoretical knowledge in utilization, and report generation of economical and medicinal plants. Create awareness on conservation of medicinal plants and use of natural plant products as alternatives to synthetic products.

COURSE OUTCOME B.Sc. Botany BOT-131 Kitchen Gardening	
At the end of this course , the students will be able to	
CO-1	Plan and design a kitchen garden
CO-2	Understand the techniques of Nursery Management for vegetable crops.
CO-3	Gain knowledge of organic fertilizers, composting.
CO-4	Have the basic knowledge of growing different types of vegetables.
CO-5	Identify the plants for a kitchen garden and know their uses.
CO-6	Plan yearly activities for a kitchen garden, Identify and manage crop pests in kitchen garden.

COURSE OUTCOME B.Sc. Botany BOT-141 Nursery and Gardening	
At the end of this course , the students will be able to	
CO-1	Explain the objective and scope of a plant nursery and garden.
CO-2	Describe the different types of gardens and their features.
CO-3	Analyze the different routine operations in nursery management and gardening.
CO-4	Develop skills in designing a plant nursery and different types of gardens, routine operations in gardening and nursery management, cultivation practices for entrepreneurial opportunities.

COURSE OUTCOME B.Sc. Botany BOT-132 Ecosystem Diversity	
At the end of this course , the students will be able to	
CO-1	Students will gain entry level competence in understanding the ecological dynamics and their influence on humans and anthropogenic endeavours.
CO-2	Students will gain theoretical understanding of ecosystem diversity.
CO-3	Develop an understanding of the natural resources.
CO-4	Understand status of wildlife, the pressures faced by wildlife areas and cultivate an insight into the conservation practices.
CO-5	Be able to use the acquired knowledge in decision making and hence add to quality of life.

COURSE OUTCOME B.Sc. Botany BOT-161 Floriculture (Exit)	
At the end of this course , the students will be able to	
CO-1	Understand the concept of floriculture and cultivation of commercial ornamental plants.
CO-2	Develop basic skills in techniques and different styles flower arrangement.
CO-3	Learn routine nursery management practices, garden operations & postharvest technology for ornamental plants.
CO-4	Understand the concept of plant growth and plant care.
CO-5	Develop insight to various government schemes in floriculture industry establish start-ups in floriculture business.

COURSE OUTCOME B.Sc. Botany BOT-200 Diversity of Microbes and Non-flowering Plants At the end of this course , the students will be able to	
CO-1	Identify and classify microbes and non-flowering plants based on their characteristic features.
CO-2	Compare and contrast the morphological features within and between the groups for a comprehensive understanding of the basis of their classification.
CO-3	Examine the life cycle and methods of reproduction of microbes and non-flowering plant groups.
CO-4	Appraise the economic importance of microbes and non-flowering plants.

COURSE OUTCOME B.Sc. Botany BOT-201 Plant Physiology At the end of this course , the students will be able to	
CO-1	Enlist the role of mineral nutrients, plant pigments and phytohormones in plant growth.
CO-2	Understand and describe various physiological processes such as absorption, transpiration, photosynthesis, photorespiration, translocation and nitrogen metabolism involved in plant growth
CO-3	Apply the knowledge of mineral nutrients and phytohormones in regulating plant growth.
CO-4	Analyze plant responses to various growth and environmental factors and plan the experimental layout for research work

COURSE OUTCOME B.Sc. Botany BOT-211 Plant-Animal Interaction	
At the end of this course , the students will be able to	
CO-1	Understand the relationships between plants and animals.
CO-2	Summarize types of plant-animal interactions.
CO-3	Evaluate the effect of climate change, habitat loss, fragmentation, hunting and introduction of invasive species and GM crops on these interactions.
CO-4	Appraise the significance of plant-animal interactions for conservation and survival of human species.

COURSE OUTCOME B.Sc. Botany BOT-231 Plant Propagation Methods	
At the end of this course , the students will be able to	
CO-1	Recall various plant propagation structures, tools and their utilization.
CO-2	Understand the advantages and disadvantages of vegetative / asexual and sexual plant propagation methods.
CO-3	Apply techniques to break seed dormancy.
CO-4	Appraise vegetative/asexual and sexual plant propagation techniques.

COURSE OUTCOME B.Sc. Botany BOT-241 Herbal Technology	
At the end of this course , the students will be able to	
CO-1	Recall the importance of medicinal and aromatic plants for preparation of herbal medicines.
CO-2	Describe the methods for preparation of crude herbal extracts and drug evaluation.
CO-3	Apply the acquired knowledge and skills to prepare herbal products.
CO-4	Analyse the use of herbal plants for preparation of cosmeceuticals and nutraceuticals.

COURSE OUTCOME B.Sc. Botany BOT-202 Anatomy and Reproductive Biology of Flowering Plants	
At the end of this course , the students will be able to	
CO-1	Recall the characteristic features of meristems, tissue systems and sexual reproductive structures in plants.
CO-2	Understand the differences between primary and secondary structures in flowering plants and explain development of reproductive structures, significance of pollination and seed dispersal.
CO-3	Illustrate various structures in anatomy and reproductive biology and apply the knowledge of embryology in seed production.
CO-4	Analyse the characteristics of wood and applications of plant anatomy in different fields.

COURSE OUTCOME B.Sc. Botany BOT-203 Cell Biology and Plant Biochemistry	
At the end of this course , the students will be able to	
CO-1	Recall the types and functions of subcellular components, biomolecules, vitamins, enzymes and secondary metabolites
CO-2	Describe the structure of the cell, subcellular components and various biomolecules.
CO-3	Analyze the role of subcellular components, biomolecules, vitamins, and enzymes in cell functioning.
CO-4	Develop skills in bioanalytical testing for scientific research.

COURSE OUTCOME B.Sc. Botany BOT-204 Biofertilizers	
At the end of this course , the students will be able to	
CO-1	Recall the concept of biofertilizers
CO-2	Explain the types of biofertilizers, isolation, mass multiplication, formulations and methods of field application and benefits associated with use of biofertilizers in organic agriculture.
CO-3	Develop skills in preparation of biofertilizer formulations for management of crops in a cost-effective and eco-friendly manner.
CO-4	Integrate the acquired knowledge for sustainable crop production, welfare of society and employment generation.

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BOT-205 Palynology

At the end of this course , the students will be able to

CO-1	Recall definitions and identify the different types of pollen grains from flowers.
CO-2	Explain the morphology of pollen based on polarity, symmetry, shape, size and aperture.
CO-3	Describe sporoderm stratification, exine ornamentation and methods of pollen viability.
CO-4	Apply the acquired skills in identification of types of honey.

COURSE OUTCOME

B.Sc. Botany

BOT-221 Techniques in Floral Arrangement

At the end of this course , the students will be able to

CO-1	Define the principles and elements of floral design and recall the equipment and tools used in floral arrangements.
CO-2	Identify and describe cut flowers and foliage used in different types of floral arrangements and understand the functioning of a retail florist outlet.
CO-3	Demonstrate different techniques of floral arrangements using fresh and dry flowers and plant parts.
CO-4	Apply the theoretical and practical knowledge and skill to design floral arrangements for entrepreneurial opportunities.

COURSE OUTCOME B.Sc. Botany BOT-222 Ecotourism	
At the end of this course , the students will be able to	
CO-1	Understand the concepts and principles of ecotourism.
CO-2	Identify the potential areas to be utilized for recreational activities in ecotourism generating entrepreneurial opportunities.
CO-3	Analyze the problems associated with ecotourism and design a sustainable solution
CO-4	Create opportunities for locals to develop ecotourism areas and conservation of natural resources.

COURSE OUTCOME B.Sc. Botany BOT-261 Organic Farming	
At the end of this course , the students will be able to	
CO-1	Recall the concept of organic farming.
CO-2	Explain various cultivation and farm management practices towards sustainable farming.
CO-3	Develop skill in preparation of organic formulations and manures for growing and managing crops organically.
CO-4	Utilize the acquired knowledge for sustainable crop production generating entrepreneurial opportunities.