

Programme outcomes- Through The Completion programme in Botany students will be able to make Their good career and occupational opportunities in their life .Student will be community Conscious and Intersted regarding importance of bio-diversity and environment After successful Completion of the programme student would have clear understanding of the concept related to the nature of Virus bacteria, fungi, Lichen, bryophytes, pteridophytes and Gymnosperms. They Studied some plant diseases with species reference to the Causative agent. Student familiarized with the importance of Enzymes and plant growth hormones and their proper applications. Student will be able to understand about the Cultivation of defferent crops.. From studying the programme they are able to know the different techniques of gardening , management of pest and diseases. They gain the activities based on forest products Commercial Cultivation, Collection, processing marketing of plants. Sceds, seedlings They know the improved seed production technology integrated plant Nutrient management.

In order to build a proper and effective Strategy for the development of our economy through the study of the programme.

On successful Completion of this programme students will be able to get job in government seetors as well as private sectors.

Programme Specific Outcomes –

After Completion the programme in Botany Student will be community conscious and interested regarding importance of biodiversity and environment .They gain knowledge on classification , reproductive mechanisms ecology evolution and economic significances of bryophytes ,pteridophytes and gymnosperms .student familiarized with the importance of enzymes and plant growth hormones and their proper applications .Student will be able to understand about the cultivation of deferent crops .They are able to know the different techniques of gardening management of pest diseases. They gain the activities based on forest products Commercial Cultivation, Collection, processing marketing of plants. Seeds, seedlings They know the improved seed production technology integrated plant Nutrient management.

In order to build a proper and effective Strategy for the development of our economy through the study of the programme.

COURSE OUTCOMES

BOT –RC-1016 1st Semester

Biodiversity (Microbes ,Algae,Fungi and Archegoniate)

Course specific outcome: The aim of this course to introduce the students with viruses ,Bacteria Fungi Algae, Bryophyte,pteridophytes and Gymnosperms.BY studying the course the student will be expect to learn about how the descases caused by virus, Bacteria and Fungi and how the descases can be controlled .On successful completion of the course student would have clear understanding of the concept related to the nature of the virus ,Bacteria and Fungi .Student will be able to know about the Ecological and economical importance of Algae, bryophyte ,pteridophytes Lichens ,and Gymnosperms by studying the course of his paper .Studied some plant discases with species reference to the causative agents symptoms

Through the laboratory practiacal student are able to know microscopic structure of plant speceies and identical character of pteridophytes and Gymnospermes.

2nd SEMESTER

Paper title- Plant Ecology and Taxonomy

Paper code: BOT-RC-2016

Course specific outcome-This course introduce student to plant Ecology and taxonomy .Through this course students are expect to learn about the ecosystem, plant communities ,Ecological Factors and the phytogeographical region of India .Through this course they aware of the environment .The are able to understand the biogeographical region is reservoir of biodiversity without which the ecosystem will be destroyed .They gain the knowledge about the danger of Global warming ,ozonehole and various pollution .The are acquainted with how the energy flow in an ecosystem and different trophic level of food chain in an ecosystem .

Moreover this course teaches the student plant Identification and their classification and different branches of Taxonomy of plants Environmental science provides a wide variety employment opportunity in government sector privat sector ,NGO ,processing units pollution control boards and many other sectors like forestry ,agriculture ,and biodiversity management .A post graduate student can also opt for managerial positions in the fields like Botanical garden ,Nurseries. Besides one can join any reputed organization as Botanist ,Environment consultant plant explorers Ecologist conservation , Park manager ,Forester ,Taxonomist.

3rd Semester

Paper title – Plant physiology and Metabolism

Paper code –BOT-RC-3016

This course is intended to apprise student about the various physiological phenomenon in plant life .They know about the plant water relation ,Mineral Nutrition , food processing technique of plants (Photosynthesis) Respiration , Enzymes , and plant growth hormones.

Student will be able to explain the important features of various physiological activities plant body .They familiarized with the importance of Enzymes and plant growth hormones and develop their ability to exam their properties and applications .It is observed that the economy of India based on agriculture and horticulture. .They will be beneficial by application of hormones in Agriculture and horticulture commerrall they cum produce different crops as well as flowers by applying hormone in their farms .Students can get job research scientist ,Farm manager, Horticulturist , and as Agricultural consultant etc.

4th Semester

Paper title- Plant Anatomy and Embryology

Paper code –BOT-RC-4016

On successful completion students would have clear understanding of the concept related to plant Anatomy and Embryology .Student are expected to learn and different various tissues and their functions students know about the Adaptive and protective mechanism of plant . Through these course .Student would be able to know the structural organization of Flower. Students will be understand the structure of ovules embryo sac. They gain the knowledge about the tissue culture and by apply the method of tissue culture they produced a large number of offspring of the economically important and fertilization of plant species .They gain the knowledge how the plant breeding can be done and how they can be economically benefitted in future by producing a large number of essential plant species by which they can earn money to stand on foot in the society .

5th Semester

Paper name – Economic Botany and Biotechnology

Paper code –BOT–RC-5026

Course outcome- The aim of this course is to teach student about various economically important plant species and the course deals with the various uses of plants and plant products for the well being of man mankind .Economic uses of plant are varied and scope of improve ment is immense to meet men ever increasing need. On successful completion of this course student will be able know the origin of cultivated plants – like cereals legumes ,spices ,Beverages, oils seed fats and their cultivation and uses .They know the values of fibneyelding plant like cotton. They know the technique of tissue culture and DNA technology by applying tissue culture and DNA technology. They can produce a large number plants .

On successfully completion of these course student obtain job us a marketing manager pharmaceutical industry quality officer or production incharge in the food and drugs discovery graduate /post graduate can get job in or at private sectors, post gradude in Botany can be observed in teaching position in school/college and Universities.

BOT – SE-3014

Bio fertilizers

After completion of the course student will be able to know about the nature of various microbes and how the microbes can be used in preparation of bio fertilizer .They can be able to know utility and application of bio fertilizer in organic farming .Through the course the student able to understand about the importance of organic Farming for the production of hygienic crops. They can be able to know manufacturing a pesticides organic based manure , vermicompost nitrogenous fertilizer ,phosphate fertilizers and their proper use in crops field .

BOT –SE-4014

Nursery and Gardening

Course specific outcome-

After attending this course student will be able to learn different type of nursery , building up of infrastructure of nursery , planting and seasonal activities .They know the methods of breaking dormancy of seeds ,seed storage ,seed production technology seed testing .

They are also know about the various of artificial reproduction like air layering cutting section of cutting , treatment of cutting planting of cutting ,Hardening of plants. They know the technology of green house production .

From studying the course they able to know the different technique of gardening ,gardening operation manuring watering management of pest and diseases and harvesting .

This course give the knowledge about the sowing of seeds cultivation of different Seasonal vegetables and their storage and marketing procedures . It expected apply that proper and effective strategy for the development of our economy will gain through this course .

BOT – SE- 5014

Medicinal Botany

Course specific outcome - student learn about the history, scope and importance of medicinal plant and Indigenous Medical science .

They gain knowledge about Ayurveda and plants used in Ayurveda treatment .Know about the conservation of endangered and endemic medicinal plants and Red list criteria .

Student are able to know ethno botany and folk medicines and ethno medicine and application of natures product to certain diseases .

On successful completion of this course students able to obtain jobs as in pharmaceutical industry and at private and government sectors relatate to medicine .