

Course Outcome

B.Sc. Botany

Semester 1	
BO1CRT01 METHODOLOGY OF SCIENCE AND AN INTRODUCTION TO BOTANY	<p>Co-1. Understand the universal nature of science</p> <p>Co-2. Demonstrate the use of scientific method</p> <p>Co-3. To lay a strong foundation to the study in Botany</p> <p>Co-4. Impart an insight into the different types of classifications in the living kingdom</p> <p>Co-5. Appreciate the world of organisms and its course of evolution and diversity.</p> <p>Co-6. Develop basic skills to study Botany in detail.</p>
Semester 2	
BO2CRT02 MICROBIOLOGY, MYCOLOGY AND PLANT PATHOLOGY	<p>Co-1. Understand the world of microbes, fungi and lichens</p> <p>Co-2. Appreciate the adaptive strategies of the microbes, fungi and lichens</p> <p>Co-3. To study the economic and pathological importance of microorganisms</p>
Semester 3	
BO3CRT03 PHYCOLOGY AND BRYOLOGY	<p>CO-1. To study the evolutionary importance of Algae as progenitors of land plants</p> <p>CO-2.</p>

	<p>Understand the unique and general features Algae and Bryophytes and familiarize it</p> <p>CO-3. To study the external morphology, internal structure and reproduction of different types of Algae and Bryophytes</p> <p>Co-4. Realize the application of Phycology in different fields</p>
Semester 4	
<p>BO4CRT04 PTERIDOLOGY, GYMNOSPERMS AND PALEOBOTANY</p>	<p>CO-1. Understand the diversity in habits, habitats and organization of various groups of plants.</p> <p>Co-2. To impart an insight into the modern classifications in lower forms of plants</p> <p>Co-3. Understand the evolutionary trends in Pteridophytes and Gymnosperms</p> <p>Co-4. Study the anatomical variations in vascular plants</p> <p>Co-5. Understand the significance of Paleobotany and its applications</p>
Semester 5	
<p>BO5CRT05 ANATOMY, REPRODUCTIVE BOTANY AND MICROTECHNIQUE</p>	<p>CO-1. Imparting an insight into the internal structure and reproduction of the most evolved group of plants, the Angiosperm</p> <p>Co-2. Understand the individual cells and also tissues simultaneously</p> <p>CO-3. Understand the structural adaptations in plants growing in different environment</p> <p>Co-4. Understand the morphology and development of reproductive parts</p>

	<p>CO-5. Get an insight in to the fruit and seed development.</p> <p>Co-6. Understand the techniques used to preserve and study plant materials.</p>
<p>BO5CRT06 RESEARCH METHODOLOGY, BIOPHYSICS AND BIOSTATISTICS</p>	<p>CO-1. To equip the students to conduct independent research and prepare research reports.</p> <p>C0-2. To make the students acquaint with different tools and techniques used in research work.</p> <p>C0-3. To equip the students with basic computer skills necessary for conducting research</p> <p>C0-4. To enable the students to have enough numerical skills necessary to carry out research</p>
<p>BO5CRT07 PLANT PHYSIOLOGY AND BIOCHEMISTRY</p>	<p>C0-1. Acquire basic knowledge needed for proper understanding of plant functioning</p> <p>C0-2. Familiarize with the basic skills and techniques related to plant physiology</p> <p>C0-3. Understand the role, structure and importance of the bio molecules associated with plant life.</p>
<p>BO5CRT08 ENVIRONMENTAL SCIENCE AND HUMAN RIGHTS</p>	<p>C0-1. Acquaint the student with the significance of Environmental Science.</p> <p>C0-2. Make the students aware about the extent of the total biodiversity and the importance of their conservation</p> <p>C0-3.</p>

	<p>Help the student to design novel mechanisms for the sustainable utilization of natural resources</p> <p>C0-4. Enable the students to understand the structure and function of the ecosystems.</p> <p>Co-5. Enable the students to understand various kinds of pollution in the environment, their impacts on the ecosystem and their control measures</p> <p>C0-6. Make the students aware about various environmental laws in India and the role of various movements in the protection of nature and natural resources</p>
<p>BO5OPT02 HORTICULTURE AND NURSERY MANAGEMENT</p>	<p>Co-1. Understand the importance of horticulture in human welfare</p> <p>Co-2. Understand the propagation and cultural practices of useful vegetable, fruit and garden plants</p> <p>Co-3. Understand the impact of modern technologies in biology on horticultural plants</p> <p>Co-4. Understand the basic concepts of landscaping and garden designing.</p> <p>Co-5. Inculcate interest in landscaping, gardening and flower and fruit culture</p>
<p>Semester 6</p>	
<p>BO6CRT09 GENETICS, PLANT BREEDING AND HORTICULTURE</p>	<p>Co-1. Imparting an insight into the principles of heredity</p> <p>Co-2. Understand the patterns of inheritance in different organisms</p> <p>Co-3.</p>

	<p>Understand the inheritance pattern of nuclear and extra nuclear genes</p> <p>Co-4. Understand the methods of crop improvement</p> <p>Co-5. Understand the importance of horticulture in human welfare</p> <p>Co-6. Develop skill in gardening technique among students</p>
<p>BO6CRT10 CELL AND MOLECULAR BIOLOGY</p>	<p>Co-1. Understand the ultra structure and functioning of cell in the sub-microscopic and molecular level.</p> <p>Co-2. Get an idea of origin, concept of continuity and complexity of life activities</p> <p>Co-3. Familiarization of life processes</p> <p>Co-4. Understand the cytological aspects of growth and development.</p> <p>Co-5. Understand the basic and scientific aspect of diversity.</p> <p>Co-6. Understand DNA as the basis of heredity and variation.</p>
<p>BO6CRT11 ANGIOSPERM MORPHOLOGY, TAXONOMY AND ECONOMIC BOTANY</p>	<p>Co-1. Acquaint with the aims, objectives and significance of taxonomy.</p> <p>Co-2. Identify the common species of plants growing in Kerala and their systematic position</p> <p>Co-3. Develop inductive and deductive reasoning ability.</p> <p>Co-4.</p>

	<p>Acquaint with the basic technique in the preparation of herbarium</p> <p>Co-5. Familiarizing with the plants having immense economic importance.</p> <p>.</p>
<p>BO6CRT12 BIOTECHNOLOGY AND BIOINFORMATICS</p>	<p>Co-1. Understand the current developments in the field of Biotechnology and Bioinformatics</p> <p>Co-2. Equip the students to carry out plant tissue culture</p> <p>Co-3. Introduce the vast repositories of biological data knowledge.</p> <p>Co-4. Equip to access and analyse the data available in the databases</p>
<p>BO6PET02 PLANT GENETIC RESOURCES MANAGEMENT</p>	<p>C0-1. Acquaint the student with the history and evolution of crop plants, and their diversity</p> <p>C0-2. Familiarize the student with the available plant genetic wealth and the measures adopted for the conservation of these resources</p> <p>Co-3. Help the student to identify the crop plants and their wild relatives</p> <p>Co-4. Help the student to explore the potentialities of various underutilized plants to project as the future food prospects</p> <p>Co-5. Understand the significance of modern technology to locate the distribution of endangered species</p>