

Lal Bahadur Shastri College of Arts, Science and Commerce, Satara

Department of Botany

Course Outcomes

Class	Title of the Paper	Course Outcomes
B.Sc. I	Semester I Paper I Biodiversity of microbes, Algae and Fungi	<ol style="list-style-type: none">1. Students will able to recognize the structure, types and multiplication of Viruses.2. Students will able to understand the bacterial types, structure and mode of reproduction.3. Students will able to identify the different types of algae and their importance in day today life.4. Students will able to developed skills for the production of different type of bio fertilizers.
	Paper II Cell Biology and Analytical techniques	<ol style="list-style-type: none">1. Students will able to distinguish the prokaryotic and eukaryotic organisms and acquire the knowledge of different plant cell organelles and its role in the plant body.2. Students will able to understand the different types of cell division and its phases.3. Students will able to handle all types of microscope.4. Students will able to develop a skill in the chromatography techniques.
B.Sc. I	Semester II Paper III Mycology, Phytopathology and Mushroom cultivation	<ol style="list-style-type: none">1. Students will able to identify and classify the different fungi and also realize the economic importance of fungi.2. Students will able to identify the lichens on the basis of morphology and to know the medicinal value of the lichens.3. Students will be able to recognize the different plant diseases and their Management.4.. Students will able to develops the soft skill technique in the Mushroom Cultivation and realize the commercial status of the mushrooms.
	Paper IV Archegoniate (Bryophytes, Pteridophytes and Gymnosperms)	<ol style="list-style-type: none">1. Students will able to identify the bryophytes their importance.2. Students will able to recognize the characters and ecological importance of pteridophytes.3. Students will be able to identify, classify the gymnosperms and understand the Economic importance of gymnosperms.

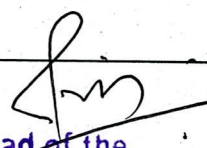


B.Sc. II	Semester III Paper V Embryology of Angiosperms	1. At the end of this course, students should be able to: describe development and structure of plant generative organs & formation of gametes. 2. Students should be able to: describe structural aspects of the pollination and fertilization process & embryo and endosperm formation;
	Paper VI Plant physiology	1. Students will be able to understand the various physiological life processes in plants 2. They will also gain about the various uptake and transport mechanisms in plants and are able to coordinate the various processes. 3. They understand the role of various hormones, signaling compounds, thermodynamics and enzyme kinetics. 4. During the course students will gain knowledge about various mechanisms such as channel or transport proteins involved in nutrient uptake in plants.
B.Sc. II	Semester IV Paper VII Plant Anatomy	1. Students will be understand Meaning of anatomy, normal secondary growth in dicot stem. 2. Students will be understand root Growth rings, periderm, lenticels, heart wood and sap wood Mechanical tissue systems in plants and types of vascular bundles
	Paper VIII Plant Metabolism	1. The student will enrich themselves with the phenomenon of metabolism of primary and secondary metabolites and their role in plants. 2. They are upgraded in analytical skills and instrumentation.
B.Sc. III	Semester V Paper IX Genetics and plant breeding	1. Students will able to demonstrate their understanding of relevant course theories and concepts Students able to Mendelian and Neo-mendelian genetics. 2. Understand the techniques of plant breeding.
	Paper X Microbiology, Plant pathology and	1. Acquiring the basic procedure in the field of microbiology and plant pathology. 2. Understand the techniques of mushroom cultivation.



	Mushroom culture technology	
	Paper XI Cytology and research techniques in Botany	1. Acquainted the techniques of micrometry. 2. Acquainted the techniques of chromatography and other laboratory techniques used in the field of life science.
	Paper XII Horticulture and Gardening	1. To develop skills in of horticulture including nursery, landscaping, gardening, floriculture and polomology. 2. Students will be able to demonstrate their knowledge, skills and attributes to be successful contributing members of the horticulture profession.
B.Sc. III	Semester VI Paper XIII Plant biochemistry and molecular biology	1. Students are acquainted with basic as well as recent knowledge in the field of molecular biology. 2. Students are acquainted with basic as well as recent knowledge in the field of biotechnology and bioinformatics.
	Paper XIV Bioinformatics, Biostatistics and economic Botany	1. Students are acquainted with basic as well as recent knowledge in the field of Biostatistics and bioinformatics 2. Aware about the Spices, Beverages and Fibers, Cereals, Legumes and Oils
	Paper XV Plant biotechnology and Paleobotany	1. Understand the methods of Plant Biotechnology, Protoplast culture and Recombinant DNA Technology. 2. Acquainted the scope of paleobotany in the present scenario and understand the fossil genera
	Paper XVI Bio-fertilizer and herbal drug technology	1. Acquaint the student with the comprehensive knowledge in the bio fertilizers, herbal drug technology and paleobotany. 2. Students become familiar with the Organic manures, Herbal Medicines, Herbal cosmetology and Pharmacognosy.




 Head of the
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