

“Dissemination of Education for Knowledge, Science and Culture”
Shikshan Maharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Dattajirao Kadam Arts, Science & Commerce College, Ichalkaranji

DEPARTMENT OF BOTANY

Course Outcomes

Sr. No.	Class	Theory Paper No.	Title of the Paper	Course Outcome
1.	M. Sc.I Sem. I	Paper-I (CC-101):	Biology and Diversity of Algae, Fungi, and Bryophytes	1. Study of diversity among fungi, algae and bryophytes 2. Understand the systematics, morphology, anatomy and life cycle patterns of fungi, algae and bryophytes 3. Analyze the useful and harmful aspects of fungi, algae and bryophytes 4. Know the economic importance of fungi, algae and bryophytes
2.		Paper-II (CC-102):	Biology and Diversity of Pteridophytes and Gymnosperms: Extant and Extinct.	1. Understand the diversity among Pteridophytes and Gymnosperms 2. Systematic study of morphology, anatomy and life cycle patterns of Pteridophytes and Gymnosperms 3. Understand the fossil genera representing different fossil groups 4. Know the economic importance of Pteridophytes and Gymnosperms
3.		Paper-III (CC-103):	Tools and techniques	1. Know the laboratory disciplines 2. Students will get acquainted with the different instruments and techniques in research. 3. Understand the principles and working of major instruments in laboratory. 4. Understand the principles and types of culture media for Algae, Fungi and plants. 5. Compare the different techniques of plant preservation.
4.		Paper-IV (CC-	Biodiversity: Conservation	1. Understand the biological diversity. 2. Define the concept of endemism. 3. Understand the importance of Conservation of

		104):	and Utilization	Biodiversity. 4. Know wild plant resources and their utilization.
5.	M. Sc.I Sem. II	Paper-V (CC-201):	Angiosperm Systematics	1. Understand the basics of plant taxonomy 2. Describe the evolutionary concepts and plant speciation. 3. Know the different systems of classification on angiosperms 4. To explain the characteristic features, interrelationships and economic importance of major plant families
6.		Paper-VI (CC-202):	Plant Pathology	1. Know the history of plant diseases 2. Describe the symptomology and epidemiology of plant diseases 3. Understand the disease development and methods for studying plant diseases 4. Know the symptomology, etiology and management of different fungal, viral, bacterial and nematodal diseases of plants.
7.		Paper-VII (CC-203):	Cell and Molecular Biology	1. Understand the dynamics of cell 2. Know mechanisms of replication of genetic material and cell 3. Describe the concept of Gene 4. Understand the mechanisms of transduction of signals and cellular communication.
8.		Paper-VIII (CC-204):	Plant Structure Development and Reproduction	1. Understand the morphogenesis and organogenesis in plants 2. To define the gametophyte development and reproduction in plants 3. Know the various aspects of palynogy 4. Study of different concepts of plant development.
9.		Paper IX (CCC-301)	Cytogenetics and crop improvement	1. Understand the cytology of plants. 2. Compare the genetics of prokaryotes and eukaryotes. 3. Understand the population and evolutionary genetics. 4. Know the classical and modern methods of plant breeding and crop improvement.
10.	M. Sc. Part II : Semester - III	Paper X (DSE-303):	Biotechnology and Genetic engineering	1. To explain the concept, scope and importance of Biotechnology. 2. To study importance of biotechnology for human welfare. 3. Understand the concept, principles and application of recombinant DNA technology. 4. Know the concept, importance of Intellectual property rights.

11.	M. Sc. Part II Semester IV	Paper XI (CCS- 302.2):	Taxonomy of fungi	<ol style="list-style-type: none"> 1. Describe the general features of fungi. 2. Understand the different criteria in classification of fungi. 3. Know techniques of microtomy. 4. Reframe present status of Mycology and plant pathology in India.
12.		Paper XII (CCS 303.3)	Integrated disease management	<ol style="list-style-type: none"> 1. To define the principles of plant pathology. 2. Describe the concept of seed pathology. 3. Understand the role of enzymes and toxins in disease development. 4. Know the genetics of host pathogen interaction.
13.		Paper XII (CC-401)	Plant physiology and metabolism	<ol style="list-style-type: none"> 1. To explain the outline of evolution of photosynthetic apparatus. 2. Understand the plant respiration and lipid metabolism. 3. Understand the physiology of flowering and stress physiology. 4. Know the signal transduction.
14.		Paper XIV (DSE 404)	Biodiversity, Conservation and utilization	<ol style="list-style-type: none"> 1. Understand the biological diversity. 2. To define the concept of endemism. 3. Understand the importance of Conservation of Biodiversity. 4. To tell about wild plant resources and their utilization.
15.		Paper XV (CCS 402.2)	Industrial Mycology	<ol style="list-style-type: none"> 1. Know role of fungi in Industry. 2. To define the fermentation process and production of organic acids by fermentation. 3. Understand Industrial production of enzymes and antibiotics. 4. Demonstration of mushroom cultivation technique.
16.		Paper XVI (CCS 403.2)	Integrated disease management	<ol style="list-style-type: none"> 1. To define concept and importance of Integrated management of plant disease. 2. Understand the classification of fungicides. 3. Describe role of botanicals and bio-pesticides in disease management. 4. Know integrated management of crop diseases.