



# KHEJURI COLLEGE

Baratala :: Purba Medinipur

## DEPARTMENT OF BOTANY

### **COURSE OUTCOMES FOR B.Sc. General (Elective Botany)**

**NAME OF THE PROGRAMME: B.Sc. General (Elective)**

**LIST OF COURSE OUTCOMES:**

COURSE	NAME OF THE COURSE	COURSE OUTCOME
DSC-1A	Biodiversity(Microbes,Algae,Fungi,and Archegoniate)	<ol style="list-style-type: none"><li>1. To understand the basic concept of microbes, their structure, and their economic importance.</li><li>2. To understand the basic information about the algae and their distribution. General→ characteristics and their economic importance.</li><li>3. To understand the basic information about fungi, and their ecological significance.</li><li>4. To understand the basic characteristic of Bryophytes and their economic importance.→</li><li>5. To understand the basic characteristics and economic importance of Pteridophytes and→ Gymnosperms.</li></ol>
DSC-1B	Plant ecology and taxonomy	<ol style="list-style-type: none"><li>1. To know about the inter relationship between living world and environment.</li><li>2. To know about the effect of different abiotic factor in living system.</li><li>3. To understand about the fundamental aspect of ecosystem.</li><li>4. Describe general taxonomic rule on plant classification.</li><li>5. To understand about the process of plant description and identification.</li><li>6. To know about the process of plant preservation for future.</li></ol>
DSC-1C	Plant Anatomy and Embryology	<ol style="list-style-type: none"><li>1. To gain knowledge of plant cells , tissues and their functions.</li><li>2. To make connections between plant anatomy and the other major disciplines of biology.</li><li>3. To identify and compare structural differences among different taxa of vascular plants.</li><li>4. To know the structure and development of monocot and dicot embryos.</li><li>5. To compare the function and morphology of pollen grains.</li><li>6. Describe and illustrate modern and fossil spores and pollen grains.</li></ol>
DSC-1D	Plant Physiology and Metabolism	<ol style="list-style-type: none"><li>1. To understand plant physiological processes and metabolism.</li><li>2. To explain the role of micro nutrients in plant growth and development.</li><li>3. To relate photosynthesis with the formation of primary and secondary metabolites.</li></ol>



# KHEJURI COLLEGE

Baratala :: Purba Medinipur

		<ol style="list-style-type: none"><li>4. To know the methods used for the bio-production of plant secondary metabolites.</li><li>5. To Know the main techniques of genetic manipulation of plant organisms.</li><li>6. To clarify the mechanism and breaking of dormancy.</li></ol>
SEC-1	Biofertilizers	<ol style="list-style-type: none"><li>1. Describe about the importance of biofertilizers and biopesticides.</li><li>2. Identify bacterial, algal and fungal biofertilizer.</li><li>3. Assess the quality control of biofertilizers.</li></ol>
SEC-2	Mushroom Culture Technology	<ol style="list-style-type: none"><li>1. Know about various types and categories of mushrooms.</li><li>2. Undertake mushroom cultivating technology</li><li>3. Know about uses of mushroom</li><li>4. Highlight the benefits of mushroom cultivation and its marketing</li></ol>
SEC-3	Ethnobotany	<ol style="list-style-type: none"><li>1. Comprehensive Knowledge of various common plants, their use and medicinal values through primitive culture.</li><li>2. Explain about concept, scope and objectives of Ethnobotany as an Inter-disciplinary science using additional OE resources available in the internet.</li></ol>
SEC-4	Medicinal botany	<ol style="list-style-type: none"><li>1. Understand history, Scope and Importance of Medicinal Plants &amp; indigenous Medicinal Sciences</li><li>2. Describe the common medicinal plants in the neighbourhood for therepeutical use.</li><li>3. Conserve endangered and endemic medicinal plants.</li><li>4. Efficient in modern tool use to get additional knowledge from the internet.</li></ol>
DSC-1A	Economic Botany and Biotechnology	<ol style="list-style-type: none"><li>1. Create awareness about plants of economic importance</li><li>2. Know about their distribution patterns</li><li>3. Identify them on the basis of their botanical features</li><li>4. Learn about their cultivation and economic importance</li></ol>
DSC-1B	Genetics and plant Breeding	<ol style="list-style-type: none"><li>1. Understand the basic components of cell, key role of cell division during cell cycle</li><li>2. Explain about inheritance and behaviour of chromosomes using additional OE resources available in the internet using modern ICT tools.</li><li>3. Describe Plant Breeding and produce new crop varieties superior to existing types in all.</li><li>4. Realize the cell as a structural and functional unit of life, basic components of a cell &amp; explain basic principles</li></ol>
GE-1	Biodiversity (Microbes, Algae, Fungi and Archegoniate)	<ol style="list-style-type: none"><li>1. Know about viruses and bacteria</li><li>2. Know about different stages of algae</li><li>3. Get the knowledge of fungi and its different types</li><li>4. Know the anatomy and reproduction of specified bryophytes, pteridophytes and gymnosperms along with their ecological and economical importance</li></ol>



# KHEJURI COLLEGE

Baratala :: Purba Medinipur

GE-2	Plant Ecology and Taxonomy	<ol style="list-style-type: none"><li>1. Comprehend the basic concepts of plant ecology and taxonomy and botanical nomenclature</li><li>2. Understand the characteristics of different plant communities</li><li>3. Know the structure and functions of eco-system</li><li>4. Be aware about environmental pollution</li></ol>
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