## INDIRA GANDHI GOVT. COLLEGE PANDARIYA Department of Botany

B.Sc. Program Outcomes:-

B.sc Program Specific Outcomes (PSOS):-

By the end of this course, the students will be able to:-

- 1- Understand the basic concepts of lower group plants and morphology of higher groups.
- 2- Understand the evolution, classification, anatomical details of higher group plants.
- 3- Analyze the cell organelles and application of genetics, molecular biology in plant breeding
- 4- Identify the bacteria, viruses and plant pathogen
- 5- Analyze metabolic activities of plants
- 6- Understand the application of genetic engineering for the improvements of plants
- 7- Understand the basic concepts of ecology
- 8- Perform the procedure of laboratory technique in biochemistry, biotechnology and utilization of plants.

## **B.Sc Course Objectives:**

	1	T- /-	Course Outcomes
S. No.	Class	Course (Paper)	Course Outcomes
1	B.Sc- I year	Bacteria, Viruses, Fungi,	<ol> <li>Understand the basic concept of bacteria,</li> </ol>
		Lichens and Algae	viruses and mycoplasma.
		Lienens and vingue	Describe the classification general
1			characteristics of Algae.
			3. Analyze economic importance of bacteria,
			virus and algae.
			4. Discuss the life-cycle of micro organism and
		= *	algae
		Bryophytes,	<ol> <li>Compare lower group of plants with higher</li> </ol>
		1 1 0	lower group.
		pteridophytes	<ol><li>Identify the different plant diseases.</li></ol>
		,gymnosperms and	<ol><li>Understand the economic Importance of</li></ol>
		Palaeobotany	fungi, lichens and bryophytes.
			4. Discuss the classification of fungi and
			bryophyte.
			5. Explain the classification of pteridophyta
			and gymnosperm.
			6. Describe the economic importance of
			pteriodophyta and gymnosperm.
2	D.Co. Il voor	Diversity of Seed Plants	Understand the paleobotany and geological
2	B.Sc- II year	'	time scale.
		and their Systematic	<ol> <li>Identify the different types of fossils.</li> </ol>
,			3. Explain the morphology and modification of
1			plants Compare the types of inflorescence
			and fruits.
			4. Describe the parts of flower Describe

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	•		general taxonomic rule of plant
			classification.
			<ol><li>Discuss the principles of botanical</li></ol>
			nomenclature.
			<ol><li>Criticize the classification of angiosperm.</li></ol>
		Structure, Development	Preparation of herbarium.
		1	2. Analyze the floral formula of monocot and
		and Reproduction in	dicot families.
		Flowering Plants	<ol> <li>Perform the procedure of cytological</li> </ol>
			techniques.
			4. Analyze the biostatistics data.
			5. Understand and identify the plants under
			natural environment Compare the types of
			inflorescence and fruits.
			6. Describe the parts of flower.
1	D.Co. III.voor	Plant Physiology,	Describe the plant growth and its growth
3	B.Sc- III year	,	regulators.
		Biochemistry and	Describe the seed-dormancy and methods
		Biotechnology	to break-dormancy.
			3. Describe the plant-defense and role of
			secondary metabolites.
			Discuss plant tissue culture technique and
			its application.
			5. Discuss the advantages and disadvantages
			of genetic-engineering.
		Ecology and Utilization of plants	Compare the various ecological successions.
			Explain different types of environmental
			pollution and its management.
			3. Understand about the renewable and non-
			renewable natural sources.
			4. Analyze the principle, types, and application
			of instruments.
			5. Explain morphology utilization and
			chemical-constituents of different plants.

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