

**Department of Botany**  
**GDC Ramnagar**  
**(NAAC Accredited)**  
**Subject: Botany**

**Programme outcomes:**

PO1: The curriculum is made for the betterment of the students to enhance their ability and to apply the knowledge of biology to make scientific queries and enhance the comprehension potential.

PO2: Successful transfer of scientific knowledge both orally and in writing.

PO3: To teach students about the significance of conserving a clean environment for perpetuation and sustainable development.

PO4: Convey and practice social, environmental and biological ethics.

PO5: Each and every aspect of the programme teaches lifelong learning.

**Programme specific outcome:**

PSO1: Inculcate strong fundamentals on modern and classical aspects of Botany.

PSO2: Create platform for higher studies in Botany.

PSO3: Facilitate students to take-up successful career in Botany.

PSO4: .Provide thorough knowledge about various plant groups from primitive to highly evolve.

PSO5: To make the students aware of applications of different plants in various industries to highlight the potential of these studies to become an entrepreneur,

PSO6: To equip the students with skills related to laboratory as well as field based studies.

PSO7: Understand the application of genetic engineering for the improvements of plants.

PSO8: Students will be able to explain how Plants function at the level of the gene, genome, cell, tissue, flower development. Drawing upon this knowledge, they will be able to give specific examples of the physiological adaptations, development, reproduction and mode of life cycle followed by different forms of plants.

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Semester	Title	Nature of course	Assessment	
			Internal	External
I	Diversity of microbes and cryptogams	Core	20	80
	Diversity of microbes and cryptogams	Core (Practical)	25	25
II	Characteristics and 2systematic of seed plants	Core	20	80
	Characteristics and 2systematic of seed plants	Core (Practical)	20	80
III	Plant anatomy, embryology and ecology	Core	20	80
	Plant anatomy, embryology and ecology	Core (Practical)	25	25
	Nursery, gardening and floriculture	Skill enhancement	20	80
IV	Plant physiology and metabolism	Core	20	80
	Plant physiology and metabolism	Core (Practical)	20	80
	Ethnobotany	Skill enhancement	20	80
V	Cell biology and genetics	Core	20	80
	Cell biology and genetics	Core (Practical)	25	25

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	Mushroom cultivation technology	Skill enhancement	20	80
VI	Economic botany and technology	Core	20	80
	Economic botany and technology	Core (Practical)	20	80
	Biofertilizers	Skill enhancement	20	80