

BETHUNE COLLEGE

DEPARTMENT OF BOTANY

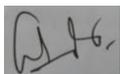
PROGRAMME SPECIFIC OUTCOME (PG-CBCS)

Name of the Programme	Year of Introduction	Status of implementation in CBCS Curriculum(YES/NO)	Programme outcome	Course specific outcome
M.Sc. Botany (Under CBCS)	2019	YES	<p>1. To develop students' proficiency in classical and modern aspects of plant science from theoretical and practical point of view</p> <p>2. To motivate the students for research or administrative jobs</p>	<p>Sem-I: Bot-C-11: 1. To develop a detailed idea on Microbiology, its classical and applied parts</p> <p>2. To be acquainted with good laboratory practices and safety measures and able to perform experiments individually</p> <p>3. To provide hands on training on sterilization, staining, and microbiological methods to fulfill the needs of future research.</p> <p>Bot-C-12: 1.To develop a detailed idea on Phycology , its classical and applied parts</p> <p>2. To perform experiments individually and identify algae upto genus level from different sources.</p> <p>3. To provide hands on training on microscopy, staining, and applied phycological methods to fulfill the needs of future research.</p> <p>Bot-C-13: 1.To develop a detailed idea on Bryophytes, Pteridophytes and Gymnosperms and their application & conservation</p> <p>2. To perform experiments individually and identify the above group of plants upto genus level from different sources.</p> <p>Bot-C-14: 1. To develop a detailed idea on Cell Biology and its applied parts.</p> <p>2. To perform experiments individually with the modern</p>

				<p>tools and techniques on cell biology to fulfill the needs of future research.</p> <p>3. To able to handle sophisticated instruments.</p>
			<p>1. Develop the ability to handle different instruments independently</p> <p>2. To develop knowledge about the diverse floral resource of the world including medicinally important plants</p> <p>3. To develop individual and leadership qualities to work in a team</p>	<p>Sem-II: Bot-C-21: 1. To develop a detailed idea on Paleobotany and Palynology, its classical and applied parts</p> <p>2. To get a detailed idea on basic geology.</p> <p>3. To provide hands on training on techniques to study fossils and pollens to fulfill the needs of future research.</p> <p>Bot-C-22: 1. To develop a detailed idea taxonomy, biosystematics and their applied parts</p> <p>2. To able to workout on plant specimens s from representative families locally available</p> <p>3. Training in identification of specimens described in classes using relevant literatures and herbaria and able to prepare keys at species level to fulfill the needs of future research.</p> <p>Bot-C-23: 1. To develop a detailed idea on classification & Pharmacological actions of plant drugs</p> <p>2. To get a hands on training on drug extraction and detection of common plant drugs.</p> <p>3. To explore and identify medicinal plants and their active plant parts to fulfill the needs of future research.</p> <p>Bot-C-24: 1. To develop a detailed idea on classical and applied genetics</p> <p>2. To gain a detailed knowledge on genomics and proteomics</p> <p>3. To provide hands on training on basic and applied genetics & molecular biology techniques</p>

			<p>To be trained in laboratory ethics, documentation methods and research methodologies</p>	<p>Sem-III: Bot-C-31: 1. To develop a detailed idea on classical mycology and applied mycology & plant pathology 2. To get a hands on training on laboratory safety, Mycological and applied mycological techniques to fulfill the needs of future research.</p> <p>Bot-C-32: 1. To develop a detailed idea on Plant physiology and biochemistry 2. To able to prepare buffers and solutions and handle sophisticated instruments. 2. To get a hands on training on physiological and biochemical techniques to fulfill the needs of future research.</p> <p>Optional Paper I: O-I-C: To develop a detailed knowledge on molecular and applied mycology O-I -E: To develop a detailed knowledge on molecular and advanced cell biology</p> <p>CBCC: BEGM1: To develop a detailed knowledge on interdisciplinary subjects like environmental microbiology, fundamentals of biochemistry and zoology.</p>
			<p>1. To develop knowledge of ecological and environmental issues 2. To equip students to take up research, teaching, industry oriented and administrative jobs 3. To develop professional qualities and management skills.</p>	<p>Sem-IV: Bot-C-41: 1. To develop a detailed idea on Plant anatomy and developmental biology 2. To get a hands on experiments of Plant anatomy and developmental biology to fulfill the needs of future research.</p> <p>Bot-C-42: 1. To develop a detailed knowledge on Plant Biotechnology 2. To get a hands on training on plant tissue culture and molecular biology tools & techniques to fulfill the needs of future research.</p>

				<p>3. To able to design and perform individual experiments and able to handle sophisticated instruments.</p> <p>Bot-C-43: To develop a detailed knowledge on Ecology and environment.</p> <p>Optional Papers II: O-II-B: To gain a detailed knowledge on plant protection</p> <p>Dissertation: 1. To inculcate scientific mind to design a project and acquainted with modern tools, techniques, computer, presentation and motivated for future research.</p>
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Head

Department of Botany