

BETHUNE COLLEGE

DEPARTMENT OF BOTANY

PROGRAMME SPECIFIC OUTCOME (PG-SEMESTER)

Name of the Programme	Year of Introduction	Status of implementation in CBCS Curriculum(YES/NO)	Programme outcome	Course specific outcome
M.Sc. Botany (Semester)	2015	NO	<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>PAPER I: Group A & B:</p> <p>1.To develop a detailed idea on Phycology , its classical and applied parts</p> <p>2. To develop a detailed idea on Microbiology, its classical and applied parts</p> <p>PAPER II: Group A & B:</p> <p>1. To develop a detailed idea on classical mycology and applied mycology</p> <p>2. To develop a detailed idea on plant pathology, plant disease epidemiology and management.</p> <p>PAPER III: Group A & B:</p> <p>1.. 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>3. To be acquainted with good laboratory practices and safety measures and able to perform experiments individually</p> <p>4. To provide hands on training on sterilization, staining, and microbiological methods to fulfill the needs of future research.</p>

			<p>PAPER IV: Group A & B: 1. To get hands on training on laboratory safety, Mycological and applied mycological techniques to fulfill the needs of future research. 2. To get hands on training on laboratory safety, plant pathogen culture, fungicides and disease management</p>
		<p>1. To develop students' proficiency in classical and modern aspects of plant science from theoretical and practical point of view 2. To develop knowledge about the diverse floral resource 3. To develop individual and leadership qualities to work in a team</p>	<p>PAPER V: Group A & B: 1. To develop a detailed idea on Bryophytes and Pteridophytes their application & conservation 2. To develop a detailed idea on Gymnosperms and their application & conservation 3. To develop a detailed idea on Paleobotany and Palynology, its classical and applied parts 4. To get a detailed idea on basic geology.</p> <p>PAPER VII: 1. To develop a detailed idea taxonomy, biosystematics and their applied parts</p> <p>PAPER VIII: Group A and B: 1. To develop a detailed idea on Plant physiology and biochemistry</p> <p>PAPER IX: Group A and B: 1. To perform experiments individually and Bryophytes, Pteridophytes and Gymnosperms upto genus level from different sources. 2. To provide hands on training on techniques to study fossils and pollens to fulfill the needs of future research.</p> <p>PAPER X: 1. To able to work-out on plant specimens from representative families locally available 2. Training in identification of</p>

			<p>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>PAPER XI: Group A and B:</p> <ol style="list-style-type: none"> 1. 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.
		<ol style="list-style-type: none"> 1. To develop knowledge of ecological and environmental issues 2. To explore the world of medicinally important plants 3. Develop the ability to handle different instruments independently 	<p>PAPER XIII: Group A and B:</p> <ol style="list-style-type: none"> 1. To develop a detailed idea on Cell Biology and its applied parts. 2. To develop a detailed idea on classical and applied genetics 3. To gain a detailed knowledge on genomics <p>PAPER XIV: Group A and B:</p> <ol style="list-style-type: none"> 1. To develop a detailed knowledge on Molecular Biology and Plant Biotechnology <p>PAPER XV: Group A and B:</p> <ol style="list-style-type: none"> 1. To develop a detailed knowledge on Ecology and environment. 2. To develop a detailed idea on Plant anatomy 3. To develop a detailed idea on classification & Pharmacological actions of plant drugs <p>PAPER XVI: Group A and B:</p> <ol style="list-style-type: none"> 1. To perform experiments individually with the modern tools and techniques on cell biology to fulfill the needs of future research. 2. To able to handle sophisticated instruments 3. To provide hands on training on basic and applied genetics

				<p>techniques</p> <p>PAPER XVII: Group A and B:</p> <ol style="list-style-type: none"> 1. To get a hands on training on plant tissue culture and molecular biology tools & techniques to fulfill the needs of future research. 2. To able to design and perform individual experiments and able to handle sophisticated instruments. <p>PAPER XVIII: Group A and B:</p> <ol style="list-style-type: none"> 1. To explore and identify medicinal plants and their active plant parts to fulfill the needs of future research. 2. To get a hands on experiments of Plant anatomy to fulfill the needs of future research.
			<ol style="list-style-type: none"> 1. Develop the ability to handle different instruments independently 2. To equip students to take up research, teaching, industry oriented and administrative jobs 3. To develop professional qualities and management skills. 4. To be trained in laboratory ethics, documentation methods and research methodologies 	<p>PAPER XX: Group A and B:</p> <ol style="list-style-type: none"> 1. To develop a detailed knowledge on Plant Breeding and Biometry to fulfill the needs of future research. 2. To gain a detailed knowledge on Instrumentation and Computer Application to handle modern and sophisticated instruments and for future research. <p>PAPER XXI:</p> <ol style="list-style-type: none"> 1. To develop a detailed knowledge on one of the 4 Special papers: Cytogenetics and Genomics, Molecular Biology and Plant Biotechnology, Plant Physiology and Biochemistry, Taxonomy of Angiosperms <p>PAPER XXII:</p> <ol style="list-style-type: none"> 1. To develop hands on training on Biostatistical methods <p>PAPER XXIII:</p> <ol style="list-style-type: none"> 1. To get a hands on training on on one of the 4 Special papers:

				<p>Cytogenetics and Genomics, Molecular Biology and Plant Biotechnology, Plant Physiology and Biochemistry, Taxonomy of Angiosperms to fulfil the needs for future research.</p> <p>2. To inculcate scientific mind to design a project and acquainted with modern tools, techniques, computer, presentation and motivated for future research.</p>
--	--	--	--	---



Head

Department of Botany