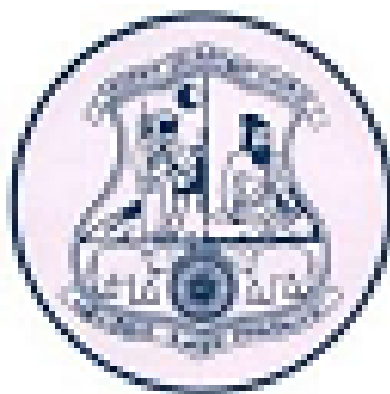


**GOVERNMENT ARTS COLLEGE FOR MEN**  
**(Autonomous)**  
**NANDANAM, CHENNAI – 600 035.**



**DEPARTMENT OF BOTANY**

**COURSE OUTCOME FOR**  
**B.SC. Degree Course in BOTANY**

**Semester System**

(Three Year UG Degree Course) /

**CHOICE BASED CREDIT SYSTEM**

**Effective from the Academic Year**

**2019 - 2020**

**GOVERNMENT ARTS COLLEGE FOR MEN (AUTONOMOUS), NANDANAM,  
CHENNAI - 600035.  
COURSE: B.SC BOTANY**

**OUTCOME:**

- ✓ To understand the diversity of plants and inter-relationships between different groups of plants
- ✓ To understand the structure and function of the different plant groups
- ✓ To be able to classify plants based on their structure and function
- ✓ To understand the fine structure and evolution of plants
- ✓ To study the various applications of plants in Agriculture and industry
- ✓ To be able to apply the knowledge acquired in everyday life
- ✓ To be able to use the knowledge to find a vocation related to Botany

PART	COURSE	SUBJECT CODE	TITLE	OUTCOME
<b>SEMESTER I</b>				
I	LANGUAGE I		LANGUAGE PAPER I	
II	ENGLISH I		ENGLISH I	
III	CORE I	192401	Algae, Bryophytes and Lichens	To understand the Diversity of Lower plants like Algae and Bryophytes To be able to differentiate between these plant groups
III	CORE III	192402	Major Practical I	To be able to have hands-on experience in identifying Algae, Lichens, Bryophytes
III	ALLIED I	192461	Allied Botany Paper I (for Chemistry)	To understand general plant biodiversity To understand general structure and classification of plants
IV	NME I	192441	Mushroom cultivation	To understand Fungi as a source of food To understand the methods of cultivating mushrooms
IV	VALUE EDUCATION		VALUE EDUCATION	
IV	SOFT SKILL I		SOFT SKILLS I	
<b>SEMESTER II</b>				
I	LANGUAGE II		LANGUAGE PAPER II	
II	ENGLISH II		ENGLISH II	
III	CORE III	192403	Pteridophytes, Gymnosperms and Paleobotany	To understand and differentiate Pteridophytes and Gymnosperms To understand the non-flowering Spermatophytes-Gymnosperms and fossil plants
III	CORE IV	192404	Major Practical II	To be able to have hands-on experience in identifying Pteridophytes and Gymnosperms To understand fossil plants
III	ALLIED II	192462	Allied Botany Paper II (for Chemistry)	To have an elementary knowledge of plant Genetics To understand Structure and function of Higher plants
III	ALLIED Practical	192463	Allied Botany Practical	To give a practical exposure of all the concepts studied
IV	NME II	192442	Medicinal Botany	To acquire knowledge on indigenous systems of medicine - medicinal plants & adulteration of herbal drugs
IV	EVS		ENVIRONMENTAL STUDIES	
IV	SOFT SKILLS II		SOFT SKILLS II	
<b>SEMESTER III</b>				
I	LANGUAGE III		LANGUAGE PAPER III	
II	ENGLISH III		ENGLISH III	
III	CORE V	192405	Mycology Plant pathology and plant breeding	To understand the Diversity of Fungi & Plant pathology To understand the mechanisms of disease development & plant breeding
III	CORE VI	192406	Major Practical III	To be able to have hands-on experience in identifying Fungi and plant diseases To understand symptoms of plant diseases
III	ALLIED III	192461	Allied Botany Paper III (for Zoology)	To understand general plant biodiversity To understand general structure and classification of plants
IV	SOFT SKILLS III		SOFT SKILL III	

SEMESTER IV				
<b>I</b>	LANGUAGE IV		LANGUAGE PAPER IV	
<b>II</b>	ENGLISH IV		ENGLISH IV	
<b>III</b>	CORE VII	192407	Cell Biology, Anatomy and Embryology	To understand the Cell structure and function of plants To understand the internal organisation of Angiosperms To understand the developmental Biology of Plants
<b>III</b>	CORE VIII	192408	Major Practical IV	To understand the various aspects of Cell Biology, Anatomy and Embryology in the lab
<b>III</b>	ALLIED IV	192462	Allied Botany Paper IV (for Zoology)	To have an elementary knowledge of plant Genetics To understand Structure and function of Higher plants
<b>III</b>	Allied practical	192463	Allied Botany Practical	To give a practical exposure of all the concepts studied
<b>IV</b>	SOFT SKILLS IV		SOFT SKILLS IV	
SEMESTER V				
<b>III</b>	CORE IX	192409	Morphology Taxonomy and Economic Botany	To identify the vegetative & reproductive parts of a plant. To recognize the importance of plant classification To describe the salient features of the family given in the syllabus To appreciate the economic importance of Plants
<b>III</b>	CORE X	192410	Plant Physiology	To understand the role of water for plants To understand Plant metabolism and growth To understand the physiology of stress in plants
<b>III</b>	CORE XI	192411	Plant Biotechnology	To understand the basic Principles of Plant biotechnology To understand Plant tissue culture To appreciate applications of Plant Biotechnology
<b>III</b>	CORE XII	192412	Major Practical V	Study of Plant Taxonomy from specimens To understand Plant Physiology by simple experiments Understand Plant tissue culture through practical
<b>III</b>	MAJOR ELECTIVE II (OR)	192421/	Elective Microbiology (OR)	To understand microbes and their applications in Human welfare
<b>III</b>	MAJOR ELECTIVE II	192422	Sea weed Technology	To identify the seaweeds of commercial importance To acquire the skill of cultivation of sea weeds. To recognize various commercial products of seaweed origin.
SEMESTER VI				
<b>III</b>	CORE XIII	192413	Genetics, Molecular Biology and Evolution	To understand the Principles of Genetics and inheritance To understand the molecular basis of inheritance To understand the evolutionary principles
<b>III</b>	CORE XIV	192414	Plant Biochemistry, Biophysics and Bioinformatics	To understand the chemical basis of life To understand the Fundamentals of Biophysics To acquire an elementary knowledge of Bioinformatics
<b>III</b>	MAJOR ELECTIVE II	192423	Techniques in Biology and Biometry	To train students in Basic Microtechniques To understand Microscopy & analytical techniques To understand handling of Laboratory instruments To understand Principles of Biostatistics
<b>III</b>	CORE XV	192415	Major Practical VI	To Provide hands-on experience in Genetics, Molecular Biology, Biometry, Ecology and Biotechnology
<b>III</b>	MAJOR ELECTIVE III	192424/	Ecology and Phytogeography	To identify and describe the structure of an ecosystem. To compare the adaptations found in plants growing in different habitats. To recognise the importance of Plant conservation. To acquire knowledge on the use of remote sensing in mapping the vegetation.
<b>III</b>	MAJOR ELECTIVE III	192425	Horticulture	To understand the principles of Horticulture To be able to practice Horticulture as an entrepreneur To understand methods of food preservation
<b>V</b>	EXTENSION ACTIVITY			