M.Sc Botany: Semester Structure

M.Sc Previous Year I Semester :PG Sem-I

	6-4-	Description	Marks	Credits
Paper	Code	Diversity of Plant Microbes	25+75	4
P-1	B040701T		25+75	4
P-II	B040702T	Algae and Bryophyta	25+75	1
P-III	B040703T	Pteridaphyta		1 1
P-IV	B040704T	Gymmusperm	25+75	4
PRACTICAL	B040705P	BASED ON PAPER I,II,III,IV	25+75	4
PROJECT	B040706P	RESEARCH PROJECT		4

IInd Semester :PG Sem II

Paper	Code	Description	Marks	Credits
P-I	B040801T	Taxonomy of higher Plant & Economic	25+75	4
P-II	B040802T	Cell Biology Of Plants	25+75	4
P-III	B040803T	Genetics	25+75	4
P-IV	B040804T	Structure, Devlop and Repn of Flowery	25+75	4
PRACTICAL	B040805P	BASED ON PAPER I,II,III,IV	25+75	4
PROJECT	B040806P	RESEARCH PROJECT	100	4+4

M.Sc Botany: Semester Structure M.Sc Final Year IIIrd Semester: PG Sem-III

Paper	Code	Description	Marks	Credits
P-I	B040901T	Microbiology	25+75	4
P-II	B040902T	Plant Physiology	25+75	4
P-III	B040903T	Biochemistry	25+75	4
P-IV	B040904T	plant Ecology	25+75	4
PRACTICAL	B040905P	BASED ON PAPER I,II,III,IV	25+75	4
PROJECT	B040906R	RESEARCH PROJECT		4

IVth Semester: PG Sem-IV

Paper	Code	Description	Marks	Credits
P-I	B040001T	Molecular biotechnology	25+75	4
P-II	B040002T	Environmental Biology	25+75	4
P-III	B040003T	Special Paper I : Plant Pathology	25+75	4
P-IV	B0400047	Special Paper IJ: Plant Tissue Culture	25+75	4
PRACTICAL	B04000SP	BASED ON PAPER I,II,III,IV	25+75	4
PROJECT	B040006R	RESEARCH PROJECT	100	4+4

Subject Prerequisites: To study this subject a student must have had the subject(s) Botany atUG Level.

Course Structure: The courses will be based on Choice Based Credit System (CBCS) structure developed by the University. There will be four compulsory or elective core coursesof Botany in each semester. Apart from these, one minor elective course of other faculty is tobe chosen by a student in the first year of M.Sc. (Botany). In each semester, there will be oneresearch project of 04 credits.

Programme (M. Sc.) Objectives:

This programme has been designed to train and enable students to understand the relationship between science and society as well as logical, scientific and ethical issues related to science. In addition to this, the students will be able to think critically for the formulation of hypotheses and experimental designing based on the scientific method, which will make the students readily employable in various streams of teaching, research, civil services and in industries.

- **Programme Specific Outcomes (PSOs):** After completing M.Sc. (with Botany), the following will be the PSOs
- **PSO-1:** It is expected that after successfully completing M.Sc. Botany, students will develop deeper theoretical & Practical knowledge of different branches of Botany like Phytotecnique, Plant taxonomy, Anatomy, Mycology, Microbiology, Physiology, Biochemistry, Cell biology, Genetics, Molecular biology, Medicinal Botany, Pharmacognosy, Environmental issues etc, making them capable of understanding the societal, environmental issues, demands and their solutions.
- **PSO-2:** This program has a strong theoretical basis that will help students in evolutionary relationship of lower and higher plants by using the key characters which is expected from a student of Botany to support the other branches of knowledge related to plants.
- **PSO-3:** Many of the courses in the programme have been carefully designed that will help the students for qualifying competitive exams like IAS, IFS, CSIR NET, SET, TGT, PGT and to write research proposals for grants.
- **PSO-4:** Continuous internal assessment provides ample opportunity to the students for improvement after every evaluation. Seminar and field visits system grooms the personality of the students and enables them to present oneself with confidence, develop a reasonably

M.Sc. Botany Syllabus

well compiled content and discuss. Assignments enable the students to compile the solutions of the given problems with optimal discussion.

PSO-5: In each semester of the programme, each student is given research project of their own choice to allow students to understand various steps of solving a research problem. Thus, this programme will help to develop research aptitude at PG level with identification of gaps in knowledge and relevance of their solutions for the society.

PSO 6. The student completing the course will be capable of executing research projects.