

## BSc. BOTANY HONOURS

### FYUGP Pathway offered: Major with Minor

#### **I SEMESTER**

Course Code	Type	Course Title
BOT1CJ101	Core Course 1 in Major:	Aesthetic Botany
BOT1MN101	Minor Course 1	Plant Ecology, Conservation & Plant Interactions

#### **II SEMESTER**

Course Code	Type	Course Title
BOT2CJ101	Core Course Major:	Microbial Diversity & Phytopathology
BOT2MN101	Minor Course 1	Plant Morphology, Physiology & Plant Resources

#### **III SEMESTER**

Course Code	Type	Course Title
BOT3CJ201	Core Course Major 1:	Plant Embryology, Palynology & Evolution
BOT3CJ202	Major 2:	Plant Anatomy and Analytical Techniques
BOT3MN201	Minor Course 1	Plant Diversity & Angiosperm Taxonomy

Value Added Course (VAC): Biodiversity & Conservation

#### **IV SEMESTER**

Course Code	Type	Course Title
BOT4CJ203	Core Course Major: 1	Plant Diversity I
BOT4CJ204	Major 2	Phytochemistry & Pharmacognosy
BOT4CJ205	Major 3	Cell & Molecular Biology

#### **V SEMESTER (with specialisation - CONSERVATION BIOLOGY)**

Course Code	Type	Course Title
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BOT5CJ301	Core Course Major: 1	Plant Diversity II
BOT5CJ302	Major 2	Angiosperm Morphology, Systematics & Plant Resources
BOT5CJ303	Major 3	Genetics, Plant Breeding & Palaeobotany
BOT5EJ301(1)	Elective Course 1 in Major	Conservation Biology
BOT5EJ302(1)	Elective Course 2 in Major	Environmental Monitoring & Disaster Management
	Skill Enhancement Course 2	Landscaping & Gardening

#### **VI SEMESTER (with specialisation - CONSERVATION BIOLOGY)**

Course Code	Type	Course Title
BOT6CJ304	Core Course Major: 1	Plant Physiology & Metabolism
BOT6CJ305	Major 2	Plant Biotechnology, Nanotechnology & Bioinformatics
BOT6CJ306	Major 3	Environmental Science & Phytogeography
BOT6EJ301(1)	Elective Course 3 in Major	Climate Change & Ecosystem Management
BOT6EJ302(1)	Elective Course 4 in Major	Invasive Plant Ecology
BOT6FS113 (1)	Skill Enhancement Course 3 -	Phytochemical Techniques
BOT6CJ349	Internship/ Project in Major (2 Credits for internship to be awarded only at the end of Semester 6)	

#### **VII SEMESTER**

Course Code	Type	Course Title
BOT7CJ401	Core Course 14 in Major	Advances in Microbiology & Thallophytes
BOT7CJ402	Core Course 15 in Major	Advances in Archegoniates

BOT7CJ403	Core Course 16 in Major	Advanced Plant Systematics
BOT7CJ404	Core Course 17 in Major	Advanced Cell & Molecular Biology
BOT7CJ405	Core Course 18 in Major	Multi-omics Approach in Biology

**VIII SEMESTER: Basic option**

Course Code	Type	Course Title
BOT8CJ406	Core Course 19 in Major	Geobotanical Mapping & Sustainable Development
BOT8CJ407	Core Course 20 in Major	Crop Improvement & Plant Pathology
BOT8CJ408	Core Course 21 in Major	Smart Farming
BOT8EJ405	Elective	Advanced Plant Physiology & Metabolism
BOT8EJ407	Elective	Instrumentation Biology
BOT8EJ408	Elective	Biosafety, IPR & Patenting

**VIII SEMESTER: Alternative Option 1- Honours with Project:**

Course Code	Type	Course Title
BOT8CJ449	Project (12 Credit)	Project (in Honours programme)
	Elective Course 5 in Major / Minor Course 7	
	Elective Course 6 in Major / Minor Course 8	
	Elective Course 7 in Major / Minor Course 9 / Major Course in any Other Discipline	

**VIII SEMESTER: Alternative Option 2 - Honours with Research Programme**

Course Code	Type	Course Title
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BOT8CJ449	Project	Project (in Honours with Research programme)
	Elective Course 5 in Major / Minor Course 7	
	Elective Course 6 in Major / Minor Course 8	
BOT8CJ489	Core Course	Research Methodology in Botany