

DEPARTMENT OF BOTANY

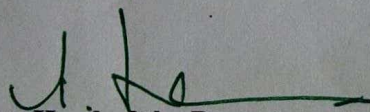
1.2.2. a. SYLLABUS REVISION 2022-2023

Percentage of revision B.Sc., Botany syllabus under regulation 2022

S. No	Course code	Course title	Changes details	% of changes	Content deleted	Content updated	Suggested by	Reason for change
1.	22UBY304	Major Paper IV- Cell Biology, Anatomy and Embryology	Updated	30%	-	<p>Unit I: Cell biology: Cell biology: *Ultra structure of Plant cell. Structure and functions of cell wall – plasma membrane – chloroplast – mitochondria – endoplasmic reticulum. Structure and functions of ribosomes - dictyosomes - nucleus - nucleolus – chromosomes: giant chromosomes: polytene and lamp brush - mitosis</p>	BOS Chairman	Skill development
2.	22UBY405	Major Paper V - Biochemistry, Biophysics & Bioinstrumentation	Updated	30%	-	<p>Unit V: Bioinstrumentation: Principle, types and uses of pH meter- buffers - Colorimetry - principle and laws (Lambert's and Beer's)</p>	Subject expert	Skill development

						<ul style="list-style-type: none"> - Colorimeter and Spectrophotometer. Centrifugation - principle and types of centrifuges and rotors, differential and density gradient centrifugation - Chromatography (paper, column, thin layer, gas, ion-exchange and affinity) - electrophoresis (AGE & PAGE) - PCR. 		
3.	22UBY4N2 2	Bioinformatics	Updated	20	-	Unit I: Input devices - output devices - storage devices - operating system - DOS/WINDOWS/LINUX - computer languages - machine language - assembly language - high level languages - translators - compilers.	BOS Chairman	Skill development
4.	22UBY507	Taxonomy of Angiosperms & Economic Botany	Updated	20	-	Unit V: Economic Botany Economic value of the plants that yield fibres, timber, dye, forage, food, grains, pulses, spices, beverages, latex, gums, resins, oils and ornamental plants.	BOS Chairman	Entrepreneur ship
5.	22UBY5E2	Elective - I Herbal and EthnoBotany	Newly introduced	100	-	-	BOS Chairman	Skill development

6.	22UBY5E1	Elective I - Microbiology and Plant pathology	Updated	10%	-	Unit V: control of plant diseases- BCA.	Subject expert	Skill development
7.	22UBY5E1	Microbiology and Plant Pathology	updated	05	-	Unit V: control of plant diseases- BCA.	Subject expert	Skill development
8.	22UBY614	Major Paper XIV - Plant Biotechnology.	Name changed	07	-	Biotechnology and genetic engineering name changed to Plant Biotechnology.	BOS Chairman	Skill development
9.	22UBY615	Major Practical - IV (For VI Sem Theory Papers)	Updated	20%	-	Unit V: Internship/ Project -Short term training/ mini project in the field of entrepreneurial botany and submission of a report.	Subject expert	Skill development
10	22UBY616	Project & Viva-voce	Newly introduced	100	-	-	BOS Chairman	Skill development


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