



**VIJAYANAGARA SRI KRISHNADEVARAYA UNIVERSITY**  
 Jnanasagara campus, Vinayakanagara, Cantonment, Bellary.-583105

**VSKUB SEP Curriculum and Credits Structure for Undergraduate Programme under Choice Based Credit System [CBCS] Scheme for the Three Years B.Sc. Programme with effect from 2024-25 (Three Major Combination)**

**THIRD YEAR; SEMESTER-V**

Category	Teaching Department	Course code	Title of the Paper	Marks			Teaching hours/w			Credit	Duration of exam (Hrs)
				IA	SEE	Total	L	T	P		
<b>Major Courses (Major 1 (A), Major 2 (B), Major 3 (C))</b>											
MJ	Biotechnology	24MJBTEC5L	Genetic Engineering	20	80	100	4	-	-	4	3
		24MJBTEC5P	Genetic Engineering Lab	10	40	50	-	-	4	2	3
	Botany	24MJBOTN5L	Plant Morphology and Taxonomy	20	80	100	4	-	-	4	3
		24MJBOTN5P	Plant Morphology and Taxonomy Lab	10	40	50	-	-	4	2	3
	Chemistry	24MJCHEM5L	Chemistry-V	20	80	100	4	-	-	4	3
		24MJCHEM5P	Chemistry Laboratory Course-V	10	40	50	-	-	4	2	3
	Computer Science	24MJCOMP5L	Python Programming	20	80	100	4	-	-	4	3
24MJCOMP5P		Python Programming Lab	10	40	50	-	-	4	2	3	
	Electronics	24MJELEC5L	Electronics Communication System	20	80	100	4	-	-	4	3
		24MJELEC5P	Electronics Communication System Lab	10	40	50	-	-	4	2	3
	Mathematics	24MJMATH5L	Real Analysis and Complex Analysis	20	80	100	4	-	-	4	3
		24MJMATH5P	Real Analysis and Complex Analysis Lab	10	40	50	-	-	4	2	3
	Microbiology	24MJMICR5L		20	80	100	4	-	-	4	3
		24MJMICR5P		10	40	50	-	-	4	2	3
	Physics	24MJPHYS5L	Elements of Atomic, Molecular, and Laser Physics	20	80	100	4	-	-	4	3
		24MJPHYS5P	Elements of Atomic, Molecular, and Laser Physics - Lab	10	40	50	-	-	4	2	3
	Zoology	24MJZOO5L	Environmental Biology and Wildlife conservation	20	80	100	4	-	-	4	3
		24MJZOO5P	Environmental Biology and Wildlife conservation Lab	10	40	50	-	-	4	2	3
	Geology	24MJGEOL5L	Stratigraphic Principles and Palaeontology	20	80	100	4	-	-	4	3
		24MJGEOL5P	Stratigraphic Principles and Palaeontology Lab	10	40	50	-	-	4	2	3

<b>Elective</b>	Biotechnology	24MJBTEC5E	Biotechnology for human welfare	10	40	50	2	-	-	2	2
	Botany	24MJBOTN5E	Plants for Human Welfare	10	40	50	2	-	-	2	2
	Chemistry	24MJCHEM5E	Nanoscience and Renewable Energy	10	40	50	2	-	-	2	2
	Computer Science	24MJCOMP5E	Software Engineering	10	40	50	2	-	-	2	2
	Electronics	24MJELEC5E	Mobile Communication	10	40	50	2	-	-	2	2
	Mathematics	24MJMATH5E	Special Functions	10	40	50	2	-	-	2	2
	Microbiology	24MJMICR5E		10	40	50	2	-	-	2	2
	Physics	24MJPHYS5E	Astronomy and Astrophysics	10	40	50	2	-	-	2	2
	Zoology	24MJZOO5E	Ethology	10	40	50	2	-	-	2	2
	Geology	24MJGEOL5E	Indian Mineral Resources	10	40	50	2	-	-	2	2
<b>SEC</b>	SEC	24ERMBSC5S	Elementary Research Methodology	10	40	50	2	-	-	2	1.5
<b>Total Credits: 22</b>											

**THIRD YEAR; SEMESTER-VI**

Category	Teaching Department	Course code	Title of the Paper	Marks			Teaching hours/w			Credit	Duration of exam (Hrs.)
				IA	SEE	Total	L	T	P		
MJ	Biotechnology	24MJBTEC6L	Plant and Animal biotechnology	20	80	100	4	-	-	4	3
		24MJBTEC6P	Plant and Animal biotechnology Lab	10	40	50	-	-	4	2	3
	Botany	24MJBOT6L	Plant Physiology and Plant Biochemistry	20	80	100	4	-	-	4	3
		24MJBOT6P	Plant Physiology and Plant Biochemistry Lab	10	40	50	-	-	4	2	3
	Chemistry	24MJCH6L	Chemistry-VI	20	80	100	4	-	-	4	3
		24MJCHEM6P	Chemistry Laboratory Course-VI	10	40	50	-	-	4	2	3
	Computer Science	24MJCOMP6L	R-Programming	20	80	100	4	-	-	4	3
		24MJCOMP6P	R-Programming Lab	10	40	50	-	-	4	2	3
	Electronics	24MJELEC6L	Microprocessor and Microcontroller	20	80	100	4	-	-	4	3
		24MJELEC6P	Microprocessor and Microcontroller Lab	10	40	50	-	-	4	2	3
	Mathematics	24MJMATH4L	Numerical Analysis	20	80	100	4	-	-	4	3
		24MJMATH4P	Numerical Analysis Lab	10	40	50	-	-	4	2	3
	Microbiology	24MJMICR6L		20	80	100	4	-	-	4	3
		24MJMICR6P		10	40	50	-	-	4	2	3
	Physics	24MJPHYS6L	Modern Physics	20	80	100	4	-	-	4	3
		24MJPHYS6P	Modern Physics -Lab	10	40	50	-	-	4	2	3
	Zoology	24MJZOO6L	Genetics and Animal Biotechnology	20	80	100	4	-	-	4	3
		24MJZOO6P	Genetics and Animal Biotechnology Lab	10	40	50	-	-	4	2	3
	Geology	24MJGEO6L	Remote Sensing and GIS	20	80	100	4	-	-	4	3
		24MJGEO6P	Remote Sensing and GIS Lab	10	40	50	-	-	4	2	3
<b>Elective</b>	Biotechnology	24MJBTEC6E	Applications of Biotechnology in Agriculture	10	40	50	2	-	-	2	2
	Botany	24MJBOTN6E	Floriculture	10	40	50	2	-	-	2	2
	Chemistry	24MJCHEM6E	Medicinal Chemistry	10	40	50	2	-	-	2	2

	Computer Science	24MJCOMP6E	Cyber Security	10	40	50	2	-	-	2	2
	Electronics	24MJELEC6E	VLSI And Embedded System	10	40	50	2	-	-	2	2
	Mathematics	24MJMATH6E	Graph Theory	10	40	50	2	-	-	2	2
	Microbiology	24MJMICR6E		-	-	-	2	-	-	2	2
	Physics	24MJPHYS6E	Medical Physics	10	40	50	2	-	-	2	2
	Zoology	24MJZOO6E	Computational Biology	10	40	50	2	-	-	2	2
	Geology	24MJGEOL6E	Exploration Geology	10	40	50	2	-	-	2	2
<b>SEC</b>	SEC	24MJERP6BS	Elementary Research Project/KJK Courses as per Govt. Guidelines	10	40	50	-	-	4	2	-
<b>Total Credits: 22</b>											

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