

P.E. Society's Modern College of Arts, Science and Commerce(Autonomous), Ganeshkhind, Pune 16.

Department of Biotechnology (M.Sc. Biotechnology)

Level	Sem	Disciplinary Major Mandatory	DSE Electives	RM	OJT/FP	RP	Cumulative Credits
6	I	14 Cr 4Cr (Th) Advanced Cell and Molecular Biology 4Cr (Th) Immunology, Virology and Vaccine Production 2Cr (Th) Medical Biotechnology 2Cr (Pr) Cell and Molecular Biology Lab 2Cr (Pr)Immunology, Virology and Vaccine Production Lab	4Cr 4Cr (2Th + 2Pr) Nanobiotechnology and Lab	4Cr 4Cr (2Th + 2Pr) Research Methodology and Lab			22
	II	14 Cr 4Cr (Th) Genetic and Genome Engineering 4Cr (Th) Bioinformatics and Systems Biology 2Cr (Th) Environmental Biotechnology 2Cr (Pr) Genetic and Genome Engineering Lab 2Cr (Pr)Bioinformatics and Systems Biology Lab	4Cr 4Cr (2Th + 2Pr) Food Biotechnology and Lab OR 4Cr (Th) Pharmaceutical Biotechnology		4Cr OJT/FP		22
6.5	III	14 Cr 4Cr (Th) Advanced Biochemistry and Bioanalytical Techniques 4Cr (Th) Bioprocess Engineering 2Cr (Th) Ethical Issues in Biotechnology and IPR 2Cr (Pr) Advanced Biochemistry and Bioanalytical Techniques Lab 2Cr (Pr)Bioprocess Engineering Lab	4Cr (2Th + 2Pr) Forensic Biotechnology and Lab 4Cr			4Cr RP	22
	IV	12 Cr 4Cr (Th) Advanced OMICS 2Cr (Th) Animal and Stem Cell Biotechnology 2Cr (Th) Plant and Agricultural Biotechnology 2Cr (Pr) Animal and Stem Cell Biotechnology Lab 2Cr (Pr) Plant and Agricultural Biotechnology Lab	4Cr (Th) Bio-entrepreneurship and Start-up Designing 4Cr			6Cr RP	22
Cum. Cr. for 1 Yr. PG Degree		26	8			10	44
Cum. Cr. for 2 Yr. PG Degree		54	16	4	4	10	88