



Name of the Board: Biotechnology

[illegible]



Progressive Education Society's
Modern College of Arts, Science and Commerce (Autonomous)
Ganeshkhind, Pune - 16

Sem	Course Type	Course Code	Course Name	Theory/ Practical	No. of Credits	No. of Hrs	CIE Marks	ESE Marks	Total Marks
SemII		BIO5211	Genetic and Genome Engineering	T	4	4	40	60	100
		BIO5212	Bioinformatics and Systems Biology	T	4	4	40	60	100
		BIO5213	Environmental Biotechnology	T	2	2	20	30	50
		BIO5214	Genetic and Genome Engineering Lab	P	2	4	20	30	50
		BIO5215	Bioinformatics and Systems Biology Lab	P	2	4	20	30	50
	DSE	BIO5221	Food Biotechnology	T	2	2	20	30	50
		BIO5222	Food Biotechnology Lab	P	2	4	20	30	50
	OJT	BIO5231	OJT/FP	P	4	4	20	30	50
			Total no. of Credits		22		220	330	550
Sem III	Major DSC	BIO6311	Advanced Biochemistry and Bioanalytical Techniques	T	4	4	20	30	50
		BIO6312	Bioprocess Engineering	T	4	4	40	60	100
		BIO6313	Ethical Issues in Biotechnology and IPR	T	2	2	20	30	50
		BIO6314	Advanced Biochemistry and Bioanalytical Techniques Lab	P	2	4	40	60	100



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		BIO6315	Bioprocess Engineering Lab	P	2	4	20	30	50
	DSE	BIO6321	Forensic Biotechnology	T	2	2	20	30	50
		BIO6322	Forensic Biotechnology Lab	P	2	4	20	30	50
	RP	BIO6331	Research Project	P	4	4	40	60	100
					22		220	330	550
Sem IV	Major DSC	BIO6411	Advanced OMICS	T	4	4	40	60	100
		BIO6412	Animal and Stem Cell Biotechnology	T	2	2	20	30	50
		BIO6413	Plant and Agricultural Biotechnology	T	2	2	20	30	50
		BIO6414	Animal and Stem Cell Biotechnology Lab	P	2	4	20	30	50
		BIO6415	Plant and Agricultural Biotechnology Lab	P	2	4	20	30	50
	DSE	BIO6421	Bio-entrepreneurship and Start-up Designing	T	4	4	40	60	100
	RP	BIO6431	Research Project	P	6	6	60	90	150
					22		220	330	550