

Proposed B.Tech-Biotechnology (4-Yr) Programme Course Structure

For 2014 Batch only

THIRD SEMESTER

Sr.No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	Xxxxx	HSS Elective - 1	2	1	-	3	3
2.	10B11BT312	Biochemistry	3	1	-	4	4
3.	15B11BT311	Thermodynamics & Chemical Processes	3	1	-	4	4
4.	15B11BT312	Microbiology	3	1	-	4	4
5.	15B11BT313	Genetics and Developmental Biology	3	1	-	4	4
6.	15B11GE301	Environmental Science	3	-	-	3	3
7.	15B17BT371	Thermodynamics and Chemical Processes Lab	-	-	2	2	1
8.	15B17BT372	Microbiology Lab	-	-	2	2	1
9.	15B17BT373	Genetics and Developmental Biology Lab	-	-	2	2	1
		TOTAL				28	25

FOURTH SEMESTER

Sr.No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	Xxxxx	HSS Elective – 2	2	1	-	3	3
2.	15B11BT411	Introduction to Bioinformatics	3	1	-	4	4
3.	15B11BT412	Molecular Biology and Genetic Engineering	3	1	-	4	4
4.	15B11BT413	Bioprocess Engineering	3	1	-	4	4
5.	15B11BT414	Immunology	3	1	-	4	4
6.	15B17BT471	Bioinformatics Lab	-	-	2	2	1
7.	15B17BT472	Genetic Engineering Lab	-	-	2	2	1
8.	15B17BT473	Bioprocess Engineering Lab	-	-	2	2	1
9.	15B17BT474	Immunology Lab	-	-	2	2	1
10.	15B11MA302	Probability & Statistics	3	1	-	4	4
		TOTAL				31	27

FIFTH SEMESTER

Sr.N	Course		Contact Hours				Credits
	o.	No.	Title	L	T	P	
1.	Xxxxx	HSS Elective-3	2	1	-	3	3
2.	15B11BT511	Cell Culture Technology	3	1	-	4	4
3.	15B11BT512	Fermentation and Downstream Processing	3	1	-	4	4
	Xxxx	Selected Foreign Language	2 / 3			2/3	Audit
4.	Xxxxx	Science Elective – 1	3	1	-	4	4
5.	15B19BT591	Minor Project – 1					5
6.	15B17BT572	Fermentation and Downstream Processing Lab	-	-	2	2	1
7.	15B17BT571	Cell culture Lab	-	-	2	2	1
8.	15B17BT573	Plant Tissue Culture Lab		-	2	2	1
9.	15B17CI577	IT Practice Lab (CS/BT)	-	-	2	2	1
		TOTAL				23+	24

SIXTH SEMESTER

Sr.N	Course		Contact Hours				Credits
	o.	No.	Title	L	T	P	
1.	Xxxxx	HSS Elective -4	2	1	-	3	3
2.	15B11BT611	Comparative and Functional Genomics	3	1	-	4	4
3.	Xxxxx	BT Elective - 1	3	1	-	4	4
4.	Xxxxx	BT Elective - 2	3	1	-	4	4
5.	Xxxxx	Science Elective - 2	3	1	-	4	4
		Selected Value Added Course	2 / 3			2/3	Audit
6.	15B17BT671	Comparative and Functional Genomics Lab	-	-	2	2	1
7.	15B19BT691	Minor Project-2	-	-			5
		TOTAL				24+	25

Students will undergo 6 weeks Industrial Training during Summer Vacation

SEVENTH SEMESTER

Sr.N o.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	Xxxxx	BT Elective -3	3	1	-	4	4
2.	Xxxxx	BT Elective -4	3	1	-	4	4
3.	Xxxxx	BT Elective - 5	3	1	-	4	4
4.	Xxxxx	Open Elective - 1	3		-	3	3
5.	15B19BT794	Major Project Part-1	-	-			5
6.	15B19BT792	Term Paper	-	-	-	-	3
7.	15B19BT793	Summer Training Viva	-	-	-	-	2
		TOTAL				15+	25

EIGHTH SEMESTER

Sr.N o.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	Xxxxx	BT Elective -6	3	1	-	4	4
2.	Xxxxx	BT Elective -7	3	1	-	4	4
3.	Xxxxx	Open Elective - 2	3		-	3	3
4.	15B19BT891	Major Project Part-2	-	-			12
		TOTAL				11 +	23