

**13. Courses of Study and Scheme of Assessment
BTECH BIOTECHNOLOGY**

(2019 Regulations)

Course Code	Course Title	Periods / week			Maximum Marks				
		Lecture	Tutorial	Practical	Credits	CA	FE	Total	CAT
SEMESTER VII									
19B701	IPR, Biosafety and Bioethics	3	0	0	3	50	50	100	HS
19____	Open Elective I	3	0	0	3	50	50	100	OE
19____	Open Elective II	3	0	0	3	50	50	100	OE
19B--	Professional Elective II	3	0	0	3	50	50	100	PE
19B__	Professional Elective III	3	0	0	3	50	50	100	PE
19B__	Professional Elective IV	3	0	0	3	50	50	100	PE
19B720	Project Work I	0	0	4	2	50	50	100	EEC
Total 22 periods		18	0	4	20	350	350	700	
SEMESTER VIII									
19B__	Professional Elective V	3	0	0	3	50	50	100	PE
19B__	Professional Elective VI	3	0	0	3	50	50	100	PE
19B820	Project Work II	0	0	8	4	50	50	100	EEC
Total 14 periods		6	0	8	10	150	150	300	

CA Continuous Assessment
FE Final Examination

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PROFESSIONAL ELECTIVES

19B001	Plant Biotechnology
19B002	Environmental Biotechnology
19B003	Pharmaceutical Technology
19B004	Food Science and Technology
19B005	Animal Biotechnology
19B006	Bioprocess Plant Design, Economics and Biosafety
19B007	Medical Genetics
19B008	Nanomaterials for Bioapplicatons
19B009	Smart Nano Particles in Cancer Therapy
19B021	Research Topics in Cancer Biology
19B022	Molecular Pathogenesis
19B023	Developmental Biology
19B024	Protein Engineering
19B025	Immunotechnology
19B026	Biofuel Technology
19B027	Studies in Paradigmatic Developments in Biology
19B028	Advances in Genomics
19B029	Systems Biology
19B030	Introduction to Biopolymers
19B031	Microbial Ecogenomics
19B032	Biotransformation in Drug Synthesis
19B033	Synthetic Biology

LANGUAGE ELECTIVES

19G001	Communication Skills for Engineers
19G002	German- Level A1.1
19G003	French Language Level 1
19G004	Basic Japanese

One Credit Courses

ENGLISH

19GF01	Interpersonal and Organizational Communication
19GF02	Human Values Through Literature

HUMANITIES

19OFA1	Export – Import Practices
19OFA2	Insurance - Concepts and Practices
19OFA3	Public Finance
19OFA4	Public Finance and Taxation

Summary of Credit Distribution

B.TECH BIOTECHNOLOGY										
S. No	Course Category	Credits Per Semester								Total Credits
		1	2	3	4	5	6	7	8	
1	HS	3	2	3	0	0	0	3	0	11
2	BS	11	11	3	3	0	0	0	0	28
3	ES	7	7	4	7	0	0	0	0	25
4	PC	0	0	14	13	20	15	0	0	62
5	PE	0	0	0	0	0	3	9	6	18
6	OE	0	0	0	0	0	0	6	0	6
7	EEC	0	0+2 [£]	0	1	3	3	2	4	15
8	MC	-	-	-	-	-	-	-	-	-
	TOTAL	21	20+2[£]	24	24	23	21	20	10	165

£ Summer Term Course(s)

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