

H. B. Technical University, Kanpur-02 (U.P.)
M.Tech Chemical Technology-Biochemical Engineering
 Structure and Evaluation Scheme (w.e.f. 2017-18)

I Semester

S. No.	Course Code	Subject	Periods			Credit
			L	T	P	
1	TCH- 501	Advanced Mathematics and Statistical design of Experiments ^A	3	1	0	4
2	TBE-501	Bioreactor Design and Analysis ^{ABC}	3	1	2	5
3	TBE-503	Structural and Molecular Biology ^{ABC}	3	1	0	4
4	Programme Elective TBE-505 TBE-507 TBE-509 TMA-501	Bioinformatics ^A Analytical Methods in Bioprocess ^{ABC} Biochemical Engineering ^{BC} *Engineering Mathematics ^{BC}	3	1	0	4
		Total	12	4	2	17

* Only for students of Non Mathematics background at Graduation level.

II Semester

S. No.	Course Code	Subject	Periods			Subject Total
			L	T	P	
1	TBE-502	Bioseparation and Downstream Processing	3	1	2	5
2	TBE-504	Bioprocess Technology	3	1	0	4
3	TBE-506	Environmental Biotechnology	3	1	0	4
4	Programme Elective TBE-508 TBE-510	Plant Biotechnology Animal Cell Culture and Tissue Engineering	3	1	0	4
		Total	12	4	2	17

III Semester

S. No.	Course Code	Subject	Periods			Credit
			L	T	P	
1	TBE-601	Industrial Enzymes	3	1	0	4
2	Programme Elective TBE-603 TBE-605 TBE-607	Bioprocess Plant Design Bioenterprenureship and Regulatory Issues Bioenergy	3	1	0	4
3	TBE-651	Seminar	0	0	4	2
4	TBE-697	Project Dissertation**	0	0	8	4
		Total	6	2	12	14

**dissertation to continue in fourth semester.

IV Semester

S. No.	Course Code	Subject	Periods			Subject Total
			L	T	P	
1	TBE-698	Research Project	0	0	24	12
		Total	0	0	24	12

Total Credit: 60