



TECHNO INDIA UNIVERSITY

W E S T B E N G A L

**COURSE CURRICULUM FOR 2-YEARS M.TECH IN
BIOTECHNOLOGY**



DEPARTMENT OF BIOTECHNOLOGY

Techno India University, West Bengal

EM-4, EM Block, Sector V, Bidhannagar,

Kolkata -700091, West Bengal



SEMESTER-I

Sl. No.	Subject Code	Subject	Contact Hours (L-T-P)	Credits
Theory				
1	TIU-PBT-T151	Plant & Animal Cell Technology	3-0-0	3
2	TIU-PBT-T153	Bioprocess Engineering & Separation Technology	3-0-0	3
3	TIU-PBT-T155	Food, Nutrition & Toxicology	3-0-0	3
4	TIU-PBT-E151	Bio-chemistry	3-0-0	3
5	TIU-PBT-S153	Bio-entrepreneurship: I	2-0-0	2
Practical				
1	TIU-PBT-L151	Advanced Bio-analytical Techniques - I	0-0-4	4
2	TIU-PBT-G151	Grand Viva: I	0-0-4	2
3	TIU-PBT-S151	Seminar: I	0-0-4	2
Total Credits				22



SEMESTER-II

Sl. No.	Course Code	Subject	Contact Hours (L-T-P)	Credit
Theory				
1	TIU-PBT-T152	Proteomics, Genomics, and Bioinformatics	3-0-0	3
2	TIU-PBT-T154	Medical Biotechnology & Therapeutics	3-0-0	3
3	TIU-PBT-E152/E154/E156/E158	Molecular biology/Molecular Immunology-I/Nanotechnology and Nano-therapeutics-I/Recombinant DNA and Protein Engineering-I	3-0-0	3
4	TIU-PBT-E160/ E162	Plant Molecular Biology & Biotechnology-I/Glyco-biology & Allied diseases - I	3-0-0	3
5	TIU-PBT-S154	Bio-entrepreneurship - II	2-0-0	2
Practical				
1	TIU-PBT-P152	Project proposal submission & presentation	0-0-4	2
2	TIU-PBT-L152	Advanced Bio-analytical Techniques—II	0-0-4	4
3	TIU-PBT-S152	Seminar - II	0-0-4	2
Total credits				22



SEMESTER III

Sl. No.	Course Code	Subject	Contact Hours (L-T-P)	Credits
Theory				
1	TIU-PBT-P253/P253B/P253F/P253E/P253D/P253C	Nanotechnology and Nano-therapeutics-II/Plant Molecular Biology & Biotechnology – II/Environmental-Biotechnology/Bioinformatics/Recombinant DNA Technology and Protein Engineering-II/Molecular Immunology II	3-0-0	3
2	TIU-PBT-S253	Research Methodology and Scientific Communication Skills	2-0-0	2
Practical				
1	TIU-PBT-P263	Training	0-0-4	2
2	TIU-PBT-P265	Project Progress Presentation	0-0-24	12
3	TIU-PBT-G251	Grand Viva - III	0-0-4	2
4	TIU-PBT-S251	Seminar - III	0-0-6	3
5	TIU-PBT-S253	Research Methodology and Scientific Communication Skills	2-0-0	2
Total Credits				24



SEMESTER - IV

Sl. No.	Course Code	Subject	Contact Hours (L-T-P)	Credits
Theory				
1	TIU-PBT-P260	Teaching Ability Assessment	2-0-0	2
Practical				
1	TIU-PBT-P252	Project III; Thesis submission and Presentation	0-0-36	18
2	TIU-PBT-G252	Quiz & Grand Viva IV	0-0-4	2
3	TIU-PBT-S252	Seminar -IV	0-0-4	2
Total Credits				24