M.Tech. Bioinformatics

Program Structure

Course Name	L	T	P	S	C
Sem-I					
Algorithmic Application in Bioinformatics	3	0	1	0	4
Computational Structural Biology	3	0	1	0	4
Statistical Programming using R	3	0	1	0	4
Protein Engineering and Design	3	0	0	0	3
Multi-omics Technology	3	0	0	0	3
Elective-1 Machine Learning for Bioinformatics Clinical Pharmacogenomics Computational Immunoinformatics	3	0	0	0	3
	Total Credit				**21**
Sem-II					
Systems & Network Biology	3	0	0	0	3
Advancements in Next Generation Sequencing	3	0	1	0	4
Computer-Aided Drug Discovery	3	0	1	0	4
Statistical Programming using Python	3	0	1	0	4
Bio-Inspired Computational Intelligence	3	0	0	0	3
Elective-2 Medical Image Processing Deep Learning GenAI for Biology	3	0	0	0	3
Regulatory Affairs and Bioethics	2	0	0	0	2
	Total Credit				**23**
Sem-III					
MOOCs-1 (Domain-specific online course)	2	0	0	0	2
Research Project-I	0	0	12	0	12
	Total Credit				**14**
Sem-IV					
Research Project II	0	0	14	0	14
	Total Credit				**14**

Total credits = 72