

Course Structure of B. Tech (Minor) Mechanical Engineering Programme

Minor in 3D Printing Technology

S. No	Course Category	Course Code	Course Title	L	T	S/P	Credit
1	Engineering Course	MEL MA 307	Engineering Materials	3	1	0	4
2	Engineering Course	MEL DE301	Product Design & Development	3	1	0	4
3	Engineering Course	MEL DE313	Materials and characterization techniques	3	1	0	4
4	Engineering Course	MEL DE326	3D Printing: Introductions and Processes	3	1	0	4
5	Engineering Course	MEL DE302	Biomaterials	3	1	0	4
6	Engineering Course	MEL DE401	Computational Fluid Dynamics	3	1	0	4
7	Engineering Course	MEM MA 401	Skill Based Lab – Digital Fabrication	2	0	4	4
			Total Credits	21	6	4	28

Minor in Robotics and Automation

S. No	Course Category	Course Code	Course Title	L	T	S/P	Credit
1	Engineering Course	MEL DC101	Engineering Mechanics	3	1	0	4
2	Engineering Course	MEL DC201	Kinematics of Machines	3	1	0	4
3	Engineering Course	MEL DE303	Industrial Robotics	3	1	0	4
4	Engineering Course	MEL DE315	Mechatronics	3	1	0	4
5	Engineering Course	MEL MA 301	Introduction to Automation	3	1	0	4
6	Engineering Course	MEL DE304	Mechanics of Robots	3	1	0	4
7	Engineering Course	MEL DE318	Computer Integrated Manufacturing System	3	1	0	4
			Total Credits	21	7	0	28

Minor in Bio-mechanical Systems

S. No	Course Category	Course Code	Course Title	L	T	S/P	Credit
1	Engineering Course	BTL BS 102	Biology for Engineers	3	0	2	4
2	Engineering Course	MEL MA 309	Engineering Mechanics	3	1	0	4
3	Engineering Course	MEL DE305	Introduction to Bio Mechanics	3	1	0	4
4	Engineering Course	MEL DE317	Introduction to Biomedical Engineering	3	1	0	4
5	Engineering Course	MEL MA 303	Bio Tribology	3	1	0	4
6	Engineering Course	MEL DE302	Biomaterials	3	1	0	4

7	Engineering Course	MEL DE316	Finite Element Analysis	3	0	2	4
			Total Credits	21	5	4	28