M. Tech: CAD/CAM & Robotics
Curriculum
First Semester

S No	Course Code	Course Title	L	T	P	C	Prerequisite
1	MATH5001	Adv, Numerical and Statistical method	3	1	0	3	-
2	MCCR5005	COMPOSITE MATERIALS	3	0	0	3	-
3	MCCR5004	MODELLING & SIMULATION	3	0	0	3	-
4	MCCR5001	ADVANCED COMPUTER AIDED DESIGN	3	0	0	3	-
5	MCCR5003	ROBOTICS & CONTROL	3	0	0	3	-
6	MCCR5002	COMPUTER INTEGRATED MANUFACTURING	3	0	0	3	-
7	MCCR5006	CIM LAB	0	0	2	1	
	Total credits					19	

Second Semester

S No	Course Code	Course Title	L	T	P	C	Prerequisite
1	CENG5001	Professional and Communication Skills	0	0	4	2	-
2	MCCR5007	Finite Element Methods	2	1	0	3	-
3	MCCR5008	Computer Integrated Manufacturing	3	0	0	3	-
4	MCCR5009	Advanced Vibration Engineering	3	0	0	3	-
5	MCCR5010	Computer Aided Process Planning	2	0	0	2	-
6		Elective 1	3	0	0	3	-
7		Elective 2	3	0	0	3	-
		Total	16	1	4	19	

Third Semester

S No	Course Code	Course Title	L	T	P	C	Prerequisite

1	MCCR6001	Advanced Computer Aided Design and Manufacturing Lab	0	0	4	2	-
2	MCCR9998	Dessertation-1	-	-	-	5	-
3		Elective 3	3	0	0	3	-
4		Elective 4	3	0	0	3	-
5		Elective 5	3	0	0	3	-
	Total credits					16	

Fourth Semester

S No	Course Code	Course Title	L	T	P	C	Prerequisite
1	MCCR9999	Dissertation-2	-	-	-	15	MCCR9999
	Total credits					15	

Programme Electives (Total Credits to be taken = 15 for 5 courses)

S. No.	Course Code	Course Title	L	T	P	C	Prerequisite/ Exposure
1	MCCR5021	AUTOMATED MATERIAL HANDLING SYSTEM	3	0	0	3	-
2	MCCR5022	FINITE ELEMENT METHODS	3	0	0	3	-
3	MCCR5023	COMPOSITE MATERIALS	3	0	0	3	-
4	MCCR5024	ADVANCED AUTOMATIC CONTROL	3	0	0	3	-
5	MCCR5025	COMPUTATIONAL FLUID DYNAMICS & HEAT TRANSFER	3	0	0	3	-
6	MCCR5026	ADVANCED ROBOTICS	3	0	0	3	-
7	MCCR5027	SMART MATERIALS	3	0	0	3	-
8	MCCR5028	COMPUTER AIDED ANALYSIS OF MECHANICAL SYSTEMS	3	0	0	3	-
9	MCCR5029	FRACTURE MECHANICS	3	0	0	3	-
10	MCCR5030	MANUFACTURING SYSTEM ANALYSIS	3	0	0	3	-