

**13. Courses of Study and Scheme of Assessment  
ME COMPUTER INTEGRATED MANUFACTURING**

**(2021 REGULATIONS)  
(Minimum No. of credits to be earned:71\*)**

Course Code	Course Title	Hours / Week			Credits	Maximum Marks			CAT
		Lecture	Tutorial	Practical		CA	FE	Total	
<b>III SEMESTER</b>									
21MC__	Professional Elective – IV	3	0	0	3	50	50	100	PE
21_____	Open Elective	3	0	0	3	50	50	100	OE
21MC71	Project Work - I	0	0	12	6	50	50	100	EEC
<b>Total 18 hrs</b>		<b>6</b>	<b>0</b>	<b>12</b>	<b>12</b>	<b>150</b>	<b>150</b>	<b>300</b>	
<b>IV SEMESTER</b>									
21MC81	Project Work - II	0	0	24	12	50	50	100	EEC
<b>Total 24 hrs</b>		<b>0</b>	<b>0</b>	<b>24</b>	<b>12</b>	<b>50</b>	<b>50</b>	<b>100</b>	
<b>PROFESSIONAL ELECTIVE THEORY COURSES (Four to be opted)</b>									
21MC21	Data Structures and Computer Programming	3	0	0	3	50	50	100	PE
21MC22	Artificial Intelligence and Machine Learning	3	0	0	3	50	50	100	PE
21MC23	Virtual Manufacturing	3	0	0	3	50	50	100	PE
21MC24	Automatic Control Systems	3	0	0	3	50	50	100	PE
21MC25	Industrial Internet of Things	3	0	0	3	50	50	100	PE
21MC26	Additive Manufacturing	3	0	0	3	50	50	100	PE
21MC27	Advanced Manufacturing Processes	3	0	0	3	50	50	100	PE
21MC28	Metrology and Automated Inspection	3	0	0	3	50	50	100	PE
21MC29	Sheet Metal Cutting and Bending Technologies	3	0	0	3	50	50	100	PE
21MC30	Manufacturing Systems Design and Analysis	3	0	0	3	50	50	100	PE
21MC31	Production Tooling and Cost Estimation	3	0	0	3	50	50	100	PE
21MC32	Product Design for Manufacture and Assembly	3	0	0	3	50	50	100	PE
21MC33	Operations Management	3	0	0	3	50	50	100	PE
21MC34	Lean Six Sigma in Manufacturing and Service	3	0	0	3	50	50	100	PE
21MC35	Costing and Engineering Economics	3	0	0	3	50	50	100	PE
21MC36	Geometric Modeling	3	0	0	3	50	50	100	PE
21MC37	Supply Chain Management	3	0	0	3	50	50	100	PE
<b>OPEN ELECTIVE THEORY COURSES (One to be opted)</b>									
21MC91	Business Analytics in Practice	3	0	0	3	50	50	100	OE
21MC92	Life Cycle Assessment and Eco-Design	3	0	0	3	50	50	100	OE
21MC93	Systems Engineering and Management	3	0	0	3	50	50	100	OE

\* Indicated is the minimum number of credits to be earned by a student.

**CAT – Category; PC – Professional Core; PE - Professional Elective; RMC - Research Methodology and IPR; EEC – Employability Enhancement Course; MC - Mandatory Course; OE - Open Elective; Grade – Completed / Not Completed.**