



Semester-I

No.	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total Marks	Exam Duration
01	19EMDC701	Computational Methods in Engineering Analysis	PC	3-1-0	04	05	50	50	100	3 hours
02	19EMDC702	Finite Element Practice in Machine Design	PC	3-1-0	04	05	50	50	100	3 hours
03	19EMDC703	Failure of Materials in Mechanical Design	PC	3-1-0	04	05	50	50	100	3 hours
04	19EMDE701	Design of Pressure vessels	PE	4-0-0	04	04	50	50	100	3 hours
	19EMDE702	Mechanics of Solids								
	19EMDE703	Integrated Product Design								
05	19EMDE704	Automobile System Design	PE	4-0-0	04	04	50	50	100	3 hours
	19EMDE705	Design and Analysis of Experiments								
	19EMDE706	Optimization Techniques in Design								
06	19EMDP701	CAD Modelling Lab	PC	0-0-5	05	10	80	20	100	2 hours
<b>Total</b>				<b>17-3-5</b>	<b>25</b>	<b>33</b>				

PC: Programme Core, PE: Programme Elective, L: Lecture, T: Tutorials, P: Practical, ISA: In Semester Assessment, ESA: End Semester Assessment.

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Semester-II

No.	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total Marks	Exam Duration
01	19EMDC704	Theory of Vibrations with Applications	PC	3-1-0	04	05	50	50	100	3 hours
02	19EMDC705	Dynamics and Mechanism design	PC	3-1-0	04	05	50	50	100	3 hours
03	19EMDC706	Fracture Mechanics	PC	3-1-0	04	05	50	50	100	3 hours
04	19EMDC707	Research Methodology	PC	2-1-0	03	04	100		100	NA
05	19EMDE707	Multi Body Dynamics	PE	4-0-0	04	04	50	50	100	3 hours
	19EMDE708	Engineering Tribology								
	19EMDE709	Mechanical Behaviour of Materials								
06	19EMDE710	Applied Stress Analysis	PE	3-0-0	03	03	50	50	100	3 hours
	19EMDE711	Machine Tool Design and Analysis								
	19EMDE712	Rotor Dynamics								
06	19EMDP702	Analysis Lab	PC	0-0-3	03	06	80	20	100	2 hours
<b>Total</b>				<b>17-3-5</b>	<b>25</b>	<b>32</b>				

**Note:** L: Lecture T: Tutorials P: Practical, **ISA:** In Semester Assessment **ESA:** End Semester Assessment **PJ-**Project, **PC-**Programme Core, **PE-**Programme Elective

  
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