M. Tech. in Design Engineering (Two Years)

Course
970
Туре
GE
CC-C57
CC-C58
DSE1
DSE2
OE1
CC-C59
SEC
020

Open Elective: Courses from other schools

-	. N	l. Tech. in Design Engineerin	g - II Seme	ster	
S. No.	Course Code	Name of Course	L-T-P	Credits	Course
			Туре		
1	ME 502	Industrial Tribology	3-1-0	4	CC-C51
2	ME 504	Experimental Stress Analysis	3-0-0	3	CC-C52
3	ME 506	Design of Experiments	3-1-0	4	CC-C53
4		(Elective III)	3-0-0	3	DSE4
5		(Elective IV)	3-0-0	3	DSE5
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		,			
6	ME 522	Project	0-0-10	5	DP1
7	ME 524	Advanced Design Lab	0-0-3	2	CC-C54
8	GP	General Proficiency		NC	CC-C34
				IVC	
		Total	15-2-13	24	
		Total Contact Hours			

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	M. Tech. in Design Engineering - III Semester								
S.	Course	L-T-P	Credits	Course					
No.	Code				Type				
		Theory Courses							
1	ME 601	3-1-0	4	CC-C55					
2	ME 603	Mechanisms Reliability in Engineering Design	3-1-0	4	CC-C56				
3		(Elective V)	3-0-0	3	DSE6				
4	ME 613	Dissertation Part I	2*-0-24	8	DP2				
5	GP	General Proficiency		NC					
		Total Total Contact Hours	11-0-24	19					

	M. T	ech. in Design Engineering - I	V Semest	er	
S. No.	Course	Name of Course	L=T=P	Credits	Course Type
1401		Theory Courses			

1	ME 614	Dissertation Part II	0-0-44	22	DP3
2	GP	General Proficiency		NC	
		Total		22	
		Total Contact Hours			

M. Tech. in Design Engineering (Two Years)

Type of Courses	Ability Enhancement Courses		Core Courses		Elective Courses			Open Elective	Total
Sem	AECC	SEC	FC	CC	E- DSE	E- D/P	E- GE	OE	
T				12	6		4	3	25
II				13	6	5			24
III				. 8	.3	8			19
IV						22		`	22 .
Total				33	15	35	Ą	3	90

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List of Electives for M. Tech. Design Engineering

	S. No. Course Name of Course						
	30.140	Code	Name of Course	L-T-P	Credits		
			Elective -I - DSE1				
	1	ME 505	Advanced Mechanical Design	3-0-0	3		
	2	ME 507	Advanced Mechanics of Solids	3-0-0	3		
	3	ME 509	Design of Pressure Vessels and Piping	3-0-0	3		
	4	ME 511	Bearings and Rotor-dynamics	3-0-0	3		
. [-		Elective -II-DSE2				
	1	ME 513	Mechanical Behavior of Materials	3-0-0	3		
	2	ME 515	Design of Hydraulic and Pneumatic Systems	3-0-0	3		
	3	ME 517	Design of Automotive Components	3-0-0	3		
	4	ME 519	Design of Material Handling Equipment	3-0-0	3		
			Elective -III-DSE3				
	1	ME 508	Vibration Engineering	3-0-0	3		
	2	ME 510	Machine Tool Design	3-0-0	3		
	3	ME 512	Environmental Engineering and Pollution Control	3-0-0	3		
	1	ME 514	Engineering Fracture Mechanics	3-0-0	3		
	2	ME 516	Theory of Elasticity	3-0-0	3		
	3	ME 518	Theory of Plates and Shells	3-0-0	3		
	4	ME 520	Composite Materials and Analysis	3-0-0	3		
			Elective -V-DSE5				
	1	ME 605	Rapid Prototyping and Manufacturing	3-0-0	3		
	2	ME 607	Vehicle Dynamics	3-0-0	3		
	3 .	ME609	Robotic Engineering	3-0-0	3		
	4	ME 611	Design of Process Equipment	3-0-0	3		
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