

RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Teaching & Examination Scheme II Year-III Semester, B.Tech.: Mechanical Engineering

SN	Catego	Course	Course Title	Н	our	5		Cr		
	ry	Code		L	T	P	IA	ETE	Total	
1	BSC	3ME2-01	Advance Engineering Mathematics-I	3	0	0	30	120	150	3
2	HSMC	3ME1-02/ 3ME1-03	Technical Communications/ Managerial Economics and Financial Accounting	2	0	0	20	80	100	2
3	ESC	3ME3-04	Engineering Mechanics	2	0	0	20	80	100	2
4	PCC	3ME4-05	Engineering Thermodynamics	3	0	0	30	120	150	3
5	PCC	3ME4-06	Materials Science and Engineering	3	0	0	30	120	150	3
6	PCC	3ME4-07	Mechanics of Solids	3	1	0	40	160	200	4
7	PCC	3ME4-21	Machine drawing practice	0	0	3	45	30	75	1.5
8	PCC	3ME4-22	Materials Testing Lab	0	0	3	45	30	75	1.5
9	PCC	3ME4-23	Basic Mechanical Engineering Lab	0	0	3	45	30	75	1.5
10	PCC	3ME4-24	Programming using MAT LAB	0	0	3	45	30	75	1.5
11	Traini ng Exam	3ME7-30							50	1
12	SODEC A	3ME8-00		1			25	0.5		
					To	tal			1225	24.5

L = Lecture, T = Tutorial, P = Practical,
 IA=Internal Assessment, ETE=End Term Exam, Cr=Credits

Scheme & Syllabus of 2ndYear B. Tech. (ME) for students admitted in 2017-18 onwards



Teaching & Examination Scheme II Year-IV Semester, B.Tech.: Mechanical Engineering

SN	Categ	Course	Course Title	Hours				Cr		
	ory	Code		L	T	P	IA	ETE	Total	
1	BSC	4ME2-01	Data analytics	2	0	0	20	80	100	2
2	HSMC	4ME1-03/ 4ME1-02	Managerial Economics and Financial Accounting/ Technical Communications	2	0	0	20	80	100	2
3	ESC	4ME3-04	Digital Electronics	2	0	0	20	80	100	2
4	PCC	4ME4-05	Fluid Mechanics and Fluid Machines	3	1	0	40	160	200	4
5	PCC	4ME4-06	Manufacturing Processes	3	0	0	30	120	150	3
6	PCC	4ME4-07	Theory of machines	3	1	0	40	160	200	4
7	ESC	4ME3-21	Digital Electronics lab	0	0	3	45	30	75	1.5
8	PCC	4ME4-22	Fluid Mechanics lab	0	0	3	45	30	75	1.5
9	PCC	4ME4-23	Production practice lab	0	0	3	45	30	75	1.5
10	PCC	4ME4-24	Theory of machines Lab	0	0	3	45	30	75	1.5
11	SODE CA	4ME8-00				. 1			25	0.5
					То	tal			1175	23.5

SEMESTER V	5	5		Hrs. / Week		IA	Exam	Total
Subject Code	Title		L	Т	Р			
5ME1A	Heat Transfer		3	1	jects	20	80	100
5ME2A	Dynamics of Machines		3	1	y Sub	20	80	100
5ME3A	Measurement & Metrology		3		Theory Subjects	20	80	100
5ME4A	Quality Assurance and Reliability		3		·	20	80	100
5ME5A	Sociology and Economics for Engineers		3			20	80	100
5ME6.1A	Computer Aided Design and Graphics							
5ME6.2A	Automobile Engg.		3			20	80	100
5ME6.3A	Statistics for Decision Making							
	Practicals and Sessionals							
5ME7A	Heat Transfer Lab		Lab	courses	3	75	50	125
5ME8A	Dynamics of Machines Lab		_	noo	2	45	30	75
5ME9A	Production Engineering Lab		-		3	60	40	100
5ME10A	Professional Ethics and Disaster Managem	ent			2	30	20	50
5MEDC	Discipline & Extra Curricular Activity							50
	Total		18	2	10			1000
SEMESTER VI	6	6		Hrs.	/ Week	IA	Exam	Total
Subject Code	Title		L	Т	Р			
6ME1A	Design of Machine Elements - II		3		jects	20	80	100
6ME2A	Newer Machining Methods		3		Theory Subjects	20	80	100
6ME3A	Mechatronics		3		Theor	20	80	100
6ME4A	Vibration Engineering		3	1		20	80	100
6ME5A	Steam Engineering		3	1		20	80	100
6ME6.1A	Non Destructive Evaluation and Testing		3			20	80	100
6ME6.2A	Design and Manufacture of Plastic Product	s				20		100

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6ME6.3A	Maintenance Management							
	Practicals and Sessionals							
6ME7A	Machine Design Sessional -II			ses	3	75	50	125
6ME8A	Industrial Engineering Lab-I		Lab	courses	2	45	30	75
6ME9A	Mechatronics Lab				2	45	30	75
6ME10A	Vibration Engineering Lab				2	45	30	75
6MEDC	Discipline & Extra Curricular Activity							50
	Total		18	2	9			1000
SEMESTER VII	7	7		Hrs.	/ Week	IA	Exam	Total
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Subject Code	Title		L	T	Р			
7ME1A	Finite Element Methods		3		jects	20	80	100
7ME2A	Refrigeration & Air-conditioning		3	1	Theory Subjects	20	80	100
7ME3A	Operations Research		3	1		20	80	100
7ME4A	Turbomachines		3			20	80	100
7ME5A	Operations Management		3			20	80	100
7ME6.1A	Micro and Nano Manufacturing							
7ME6.2A	Robotics		3			20	80	100
7ME6.3A	CNC Machines and Programming							
	Practicals and Sessionals							
7ME7A	Thermal Engineering Lab-II		۵	ses	3	60	40	100
7ME8A	FEM Lab		Lab	conrses	3	60	40	100
7METR	Practical Training & Industrial visit				2		100	100
7MEPR	Project-1				2	50		50
7MEDC	Discipline & Extra Curricular Activity						50	
	Total		18	2	10			1000

SEMESTER VIII	8	8		Hrs.	/ Week	IA	Exam	Total
Subject Code	Title		L	Т	Р			
8ME1A	Computer Integrated Manufacturing System	ıs	3			20	80	100
8ME2A	Laws for Engineers		3		Theory Subjects	20	80	100
8ME3A	Power Generation		3	1	Sub	20	80	100
8ME4.1A	Product Development and Launching							
8ME4.2A	Computational Fluid Dynamics		3			20	80	100
8ME4.3A	Total Quality Management							
	Practicals and Sessionals							
8ME5A	CAM Lab		0	2003	2	45	30	75
8ME6A	CAD Lab		200	<u> </u>	3	60	40	100
8ME7A	Industrial Engineering Lab - II		_	ĭ	2	45	30	75
8MEPR	Project-2				4	120	80	200
8MESM	Seminar				2	60	40	100
8MEDC	Discipline & Extra Curricular Activity							50
	Total		12	1	13			1000