



# RAJASTHAN TECHNICAL UNIVERSITY, KOTA

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

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

**L** = Lecture, **T** = Tutorial, **P** = Practical,

**IA**=Internal Assessment, **ETE**=End Term Exam, **Cr**=Credits



# RAJASTHAN TECHNICAL UNIVERSITY, KOTA

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

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

SEMESTER V	5	5	Hrs. / Week			IA	Exam	Total
Subject Code	Title		L	T	P			
5ME1A	Heat Transfer		3	1	Theory Subjects	20	80	100
5ME2A	Dynamics of Machines		3	1		20	80	100
5ME3A	Measurement & Metrology		3			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		3			20	80	100
5ME6.2A	Automobile Engg.							
5ME6.3A	Statistics for Decision Making							
	Practicals and Sessionals							
5ME7A	Heat Transfer Lab		Lab courses		3	75	50	125
5ME8A	Dynamics of Machines Lab			2	45	30	75	
5ME9A	Production Engineering Lab			3	60	40	100	
5ME10A	Professional Ethics and Disaster Management			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	T	P			
6ME1A	Design of Machine Elements - II		3		Theory Subjects	20	80	100
6ME2A	Newer Machining Methods		3			20	80	100
6ME3A	Mechatronics		3			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 Products							



SEMESTER VIII	8	8	Hrs. / Week			IA	Exam	Total
Subject Code	Title		L	T	P			
8ME1A	Computer Integrated Manufacturing Systems		3		Theory Subjects	20	80	100
8ME2A	Laws for Engineers		3			20	80	100
8ME3A	Power Generation		3	1		20	80	100
8ME4.1A	Product Development and Launching		3			20	80	100
8ME4.2A	Computational Fluid Dynamics							
8ME4.3A	Total Quality Management							
	Practicals and Sessionals							
8ME5A	CAM Lab		Lab courses		2	45	30	75
8ME6A	CAD Lab			3	60	40	100	
8ME7A	Industrial Engineering Lab - II			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