

Scheme of  
UNDERGRADUATE DEGREE COURSE

**B.Tech. V & VI Semester**

**Mechanical Engineering**



Rajasthan Technical University, Kota  
Effective from session: 2019-20



# RAJASTHAN TECHNICAL UNIVERSITY, KOTA

## Teaching & Examination Scheme B.Tech. : Mechanical Engineering 3<sup>rd</sup> Year –V Semester

THEORY											
SN	Category	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
1	ESC	5ME3-01	Mechatronic Systems	2	0	0	2	20	80	100	2
2	PCC/ PEC	5ME4-02	Heat Transfer	3	0	0	3	30	120	150	3
3		5ME4-03	Manufacturing Technology	3	0	0	3	30	120	150	3
4		5ME4-04	Design of Machine Elements I	3	0	0	3	30	120	150	3
5		5ME4-05	Principles of Management	2	0	0	2	20	80	100	2
6		Professional Elective I (any one)	3	0	0	3	30	120	150	3	
		5ME5-11	Steam Engineering								
		5ME5-12	Automobile Engineering								
	5ME5-13	Non Destructive Evaluation & Testing									
	5ME5-14	Understanding the Human Being Comprehensively Human Aspirations and Its Fulfillment									
		<b>Sub Total</b>		<b>16</b>	<b>0</b>	<b>0</b>		<b>160</b>	<b>640</b>	<b>800</b>	<b>16</b>
PRACTICAL & SESSIONAL											
7	ESC	5ME3-21	Mechatronic Lab	0	0	2	2	30	20	50	1
8	PCC	5ME4-22	Heat Transfer lab	0	0	2	2	30	20	50	1
9		5ME4-23	Production Engineering Lab	0	0	2	2	30	20	50	1
10		5ME4-24	Machine Design Practice I	0	0	2	2	30	20	50	1
11	PSIT	5ME7-30	Industrial Training	0	0	1	1	75	50	125	2.5
12	SODE CA	5ME8-00	Social Outreach, Discipline & Extra Curricular Activities						25	25	0.5
		<b>Sub- Total</b>		<b>0</b>	<b>0</b>	<b>9</b>		<b>195</b>	<b>155</b>	<b>350</b>	<b>7</b>
		<b>TOTAL OF V SEMESTER</b>		<b>16</b>	<b>0</b>	<b>9</b>		<b>355</b>	<b>795</b>	<b>1150</b>	<b>23</b>

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



# RAJASTHAN TECHNICAL UNIVERSITY, KOTA

## Teaching & Examination Scheme B. Tech.: Mechanical Engineering 3<sup>rd</sup> Year – VI Semester

THEORY												
SN	Category	Course		Contact hrs/week			Marks				Cr	
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total		
1	ESC	6ME3-01	Measurement and Metrology	2	0	0	2	20	80	100	2	
2	PCC/ PEC	6ME4-02	CIMS	3	0	0	3	30	120	150	3	
3		6ME4-03	Mechanical Vibrations	3	0	0	3	30	120	150	3	
4		6ME4-04	Design of Machine Elements II	3	0	0	3	30	120	150	3	
5		6ME4-05	Quality Management	3	0	0	3	30	120	150	3	
6		Professional Elective II (any one)		3	0	0	3	30	120	150	3	
		6ME5-11	Refrigeration and Air Conditioning									
		6ME5-12	NON Conventional Machining Methods									
		6ME5-13	MEMS and Microsystems									
		6ME5-14	Values, Relationship & Ethical Human Conduct-For Happy & Harmonious Society									
<b>Sub Total</b>				<b>17</b>	<b>0</b>	<b>0</b>		<b>170</b>	<b>680</b>	<b>850</b>	<b>17</b>	
PRACTICAL & SESSIONAL												
7	PCC	6ME4-21	CIMS Lab	0	0	3	3	45	30	75	1.5	
8		6ME4-22	Vibration Lab	0	0	3	3	45	30	75	1.5	
9		6ME4-23	Machine Design Practice II	0	0	3	3	45	30	75	1.5	
10		6ME4-24	Thermal Engineering Lab I	0	0	3	3	45	30	75	1.5	
11	SODE CA	6ME8-00	Social Outreach, Discipline & Extra Curricular Activities						25	25	0.5	
<b>Sub- Total</b>				<b>0</b>	<b>0</b>	<b>12</b>		<b>180</b>	<b>145</b>	<b>325</b>	<b>6.5</b>	
<b>TOTAL OF VI SEMESTER</b>				<b>17</b>	<b>0</b>	<b>12</b>		<b>350</b>	<b>825</b>	<b>1175</b>	<b>23.5</b>	

*L: Lecture, T: Tutorial, P: Practical, Cr: Credits*

*ETE: End Term Exam, IA: Internal Assessment*