## Rajasthan Technical University, Kota B.Tech. (Mechanical Engineering Scheme)

							Code	ME
Course	BOS Mechanical				70			
SEMESTER III	3	3	Cor	ntact	Hrs. / Week	IA	Exam	Total
Subject Code	Title		L	Т	Р			
3ME1A	Mechanics of Solids-I		3	1		20	80	100
3ME2A	Material Science and Engineering		3		_ છ	20	80	100
3ME3A	Engineering Thermodynamics		3	1	Theory Subjects	20	80	100
3ME4A	Manufacturing Processes		3		je je	20	80	100
3ME5A	Object Oriented Programming in C ++		2		ΓŌ	20	80	100
3ME6A	Advanced Engineering Mathematics		3	1		20	80	100
	Practicals and Sessionals							
3ME7A	Material Science and Testing Lab				2	45	30	75
3ME8A	Basic Mechanical Engineering Lab				2	45	30	75
3ME9A	Production Practice - I				3	45	30	75
3ME10A	Computer Programming Lab				2	30	20	50
3ME11A	Mechanical Engineering Drawing				3	45	30	75
3MEDC	Discipline & Extra Curricular Activity							50
	Total		17	3	12			1000
		_						
SEMESTER IV	4	4			/ Week	IA	Exam	Total
Subject Code	4 Title	4	L	Т	/ Week	IA	Exam	Total
		4	L 3			<i>IA</i>	80	100
Subject Code	Title	4	3	Т	Р		80 80	
Subject Code 4ME1A	Title Kinematics of Machines	4	3	T 1	Р	20	80 80 80	100
Subject Code 4ME1A 4ME2A 4ME3A 4ME4A	Title Kinematics of Machines Fluid Mechanics & Machines Machining & Machine Tools Design of Machine Elements - I	4	3 3 3	T 1	Р	20 20 20 20	80 80 80 80	100 100 100 100
Subject Code 4ME1A 4ME2A 4ME3A	Title Kinematics of Machines Fluid Mechanics & Machines Machining & Machine Tools	4	3 3 3 3	T 1		20 20 20	80 80 80	100 100 100
Subject Code 4ME1A 4ME2A 4ME3A 4ME4A	Title Kinematics of Machines Fluid Mechanics & Machines Machining & Machine Tools Design of Machine Elements - I Industrial Engineering I.C. Engines	4	3 3 3	T 1	Р	20 20 20 20	80 80 80 80	100 100 100 100
Subject Code 4ME1A 4ME2A 4ME3A 4ME4A 4ME5A 4ME6A	Title Kinematics of Machines Fluid Mechanics & Machines Machining & Machine Tools Design of Machine Elements - I Industrial Engineering	4	3 3 3 3	T 1	Р	20 20 20 20 20	80 80 80 80 80	100 100 100 100 100
Subject Code 4ME1A 4ME2A 4ME3A 4ME4A 4ME5A	Title Kinematics of Machines Fluid Mechanics & Machines Machining & Machine Tools Design of Machine Elements - I Industrial Engineering I.C. Engines	4	3 3 3 3	1 1	Р	20 20 20 20 20	80 80 80 80 80	100 100 100 100 100
Subject Code 4ME1A 4ME2A 4ME3A 4ME4A 4ME5A 4ME6A	Title Kinematics of Machines Fluid Mechanics & Machines Machining & Machine Tools Design of Machine Elements - I Industrial Engineering I.C. Engines Practicals and Sessionals	4	3 3 3 3	1 1	Theory and Subjects	20 20 20 20 20 20 20 45 30	80 80 80 80 80 80 30	100 100 100 100 100 100 75 50
Subject Code  4ME1A  4ME2A  4ME3A  4ME4A  4ME5A  4ME6A  4ME7A  4ME8A  4ME9A	Title Kinematics of Machines Fluid Mechanics & Machines Machining & Machine Tools Design of Machine Elements - I Industrial Engineering I.C. Engines Practicals and Sessionals Kinematics of Machine Lab	4	3 3 3 3	1 1	Theory Subjects	20 20 20 20 20 20 20 45 30 45	80 80 80 80 80 80 30 20	100 100 100 100 100 100 75 50
Subject Code  4ME1A  4ME2A  4ME3A  4ME4A  4ME5A  4ME6A  4ME7A  4ME8A	Title Kinematics of Machines Fluid Mechanics & Machines Machining & Machine Tools Design of Machine Elements - I Industrial Engineering I.C. Engines Practicals and Sessionals Kinematics of Machine Lab Fluid Mechanics Lab	4	3 3 3 3	1 1	Theory and Subjects	20 20 20 20 20 20 20 45 30	80 80 80 80 80 80 30	100 100 100 100 100 100 75 50 75
Subject Code  4ME1A  4ME2A  4ME3A  4ME4A  4ME5A  4ME6A  4ME7A  4ME8A  4ME9A	Title Kinematics of Machines Fluid Mechanics & Machines Machining & Machine Tools Design of Machine Elements - I Industrial Engineering I.C. Engines Practicals and Sessionals Kinematics of Machine Lab Fluid Mechanics Lab Production Practice-II	4	3 3 3 3	1 1	Theory Subjects	20 20 20 20 20 20 20 45 30 45	80 80 80 80 80 80 30 20	100 100 100 100 100 100 75 50
Subject Code  4ME1A  4ME2A  4ME3A  4ME4A  4ME5A  4ME6A  4ME7A  4ME8A  4ME9A  4ME10A	Title Kinematics of Machines Fluid Mechanics & Machines Machining & Machine Tools Design of Machine Elements - I Industrial Engineering I.C. Engines Practicals and Sessionals Kinematics of Machine Lab Fluid Mechanics Lab Production Practice-II Machine Design Sessional - I	4	3 3 3 3	1 1	Theory 5 Subjects 6	20 20 20 20 20 20 20 30 45 45	80 80 80 80 80 80 20 30 30	100 100 100 100 100 100 75 50 75
Subject Code  4ME1A  4ME2A  4ME3A  4ME4A  4ME5A  4ME6A  4ME7A  4ME8A  4ME9A  4ME10A  4ME11A	Title Kinematics of Machines Fluid Mechanics & Machines Machining & Machine Tools Design of Machine Elements - I Industrial Engineering I.C. Engines Practicals and Sessionals Kinematics of Machine Lab Fluid Mechanics Lab Production Practice-II Machine Design Sessional - I Thermal Engineering Lab-I	4	3 3 3 3	1 1	Theory and Subjects	20 20 20 20 20 20 20 30 45 45	80 80 80 80 80 80 20 30 30	100 100 100 100 100 100 75 50 75 75 75

## Rajasthan Technical University, Kota B.Tech. (Mechanical Engineering Scheme)

SEMESTER V	5	5		Hrs.	/ Week	IA	Exam	Total
Subject Code	Title		L	Т	Р			
5ME1A	Heat Transfer		3	1		20	80	100
5ME2A	Dynamics of Machines		3	3	Theory Subjects	20	80	100
5ME3A	Measurement & Metrology					20	80	100
5ME4A	Quality Assurance and Reliability					20	80	100
5ME5A	Sociology and Economics for Engineers		3		≥	20	80	100
5ME6.1A	Computer Aided Design and Graphics				Theol			
5ME6.2A	Automobile Engg.		3			20	80	100
5ME6.3A	Statistics for Decision Making							
	Practicals and Sessionals							
5ME7A	Heat Transfer Lab			S	3	75	50	125
5ME8A	Dynamics of Machines Lab		g	3e	2	45	30	75
5ME9A	Production Engineering Lab		Lab	courses	3	60	40	100
5ME10A	Professional Ethics and Disaster Managem	ent		O	2	30	20	50
5MEDC	Discipline & Extra Curricular Activity							50
	Total		18	2	10			1000
SEMESTER VI	6	6			/ Week	IA	Exam	Total
Subject Code	Title		L	Т	Р			
6ME1A	Design of Machine Elements - II		3			20	80	100
6ME2A	Newer Machining Methods		3		şţ	20	80	100
6ME3A	Mechatronics		3		jec	20	80	100
6ME4A	Vibration Engineering		3	1	g	20	80	100
6ME5A	Steam Engineering		3	1	>	20	80	100
6ME6.1A	Non Destructive Evaluation and Testing				Theory Subjects			
6ME6.2A	Design and Manufacture of Plastic Products	s	3		Ę	20	80	100
6ME6.3A	Maintenance Management							
	Practicals and Sessionals	1						
6ME7A	Machine Design Sessional -II			S	3	75	50	125
6ME8A	Industrial Engineering Lab-I		٩	courses	2	45	30	75
6ME9A	Mechatronics Lab		Lab	onic	2	45	30	75
6ME10A	Vibration Engineering Lab			ŏ	2	45	30	75
6MEDC	Discipline & Extra Curricular Activity							50
	Total		18	2	9			1000
SEMESTER VII	7	7		Hrs.	/ Week	IA	Exam	Total

## Rajasthan Technical University, Kota B.Tech. (Mechanical Engineering Scheme)

Subject Code					_	_			
TME2A	Subject Code	Title		L	Т	Р			
TME6.3A									
TME6.3A		ŭ ŭ			1	cts			
TME6.3A	7ME3A				1	oje	20	80	100
TME6.3A	7ME4A	Turbomachines				Sul	20	80	100
TME6.3A	7ME5A	Operations Management		3		<u>&gt;</u>	20	80	100
TME6.3A	7ME6.1A	Micro and Nano Manufacturing				60			
Practicals and Sessionals	7ME6.2A	Robotics		3		Ļ	20	80	100
Thermal Engineering Lab-II	7ME6.3A	CNC Machines and Programming							
TME8A   FEM Lab   TMETR   Practical Training & Industrial visit   TMEPR   Project-1   Total   Total   Total   Title   TMESTER VIII   Subject Code   Title   Title		Practicals and Sessionals							
7MEPR         Project-1         2         50         50           7MEDC         Discipline & Extra Curricular Activity         18         2         10         1000           SEMESTER VIII 8         8         Hrs. / Week         IA         Exam         Total           SUbject Code         Title         L         T         P           8ME1A         Computer Integrated Manufacturing Systems         3         20         80         100           8ME2A         Laws for Engineers         3         20         80         100           8ME4.1A         Product Development and Launching         3         1         20         80         100           8ME4.2A         Computational Fluid Dynamics         3         3         20         80         100           8ME4.3A         Total Quality Management         20         80         100           8ME5A         CAM Lab         2         45         30         75           8ME6A         CAD Lab         3         60         40         100           8ME7A         Industrial Engineering Lab - II         2         45         30         75           8MEPR         Project-2         4         <	7ME7A	Thermal Engineering Lab-II			S		60	40	100
7MEPR         Project-1         2         50         50           7MEDC         Discipline & Extra Curricular Activity         18         2         10         1000           SEMESTER VIII 8         8         Hrs. / Week         IA         Exam         Total           SUbject Code         Title         L         T         P           8ME1A         Computer Integrated Manufacturing Systems         3         20         80         100           8ME2A         Laws for Engineers         3         20         80         100           8ME4.1A         Product Development and Launching         3         1         20         80         100           8ME4.2A         Computational Fluid Dynamics         3         3         20         80         100           8ME4.3A         Total Quality Management         20         80         100           8ME5A         CAM Lab         2         45         30         75           8ME6A         CAD Lab         3         60         40         100           8ME7A         Industrial Engineering Lab - II         2         45         30         75           8MEPR         Project-2         4         <	7ME8A	FEM Lab		ဓ္ဗ	Se	3	60	40	100
7MEPR         Project-1         2         50         50           7MEDC         Discipline & Extra Curricular Activity         18         2         10         1000           SEMESTER VIII 8         8         Hrs. / Week         IA         Exam         Total           SUbject Code         Title         L         T         P           8ME1A         Computer Integrated Manufacturing Systems         3         20         80         100           8ME2A         Laws for Engineers         3         20         80         100           8ME4.1A         Product Development and Launching         3         1         20         80         100           8ME4.2A         Computational Fluid Dynamics         3         3         20         80         100           8ME4.3A         Total Quality Management         20         80         100           8ME5A         CAM Lab         2         45         30         75           8ME6A         CAD Lab         3         60         40         100           8ME7A         Industrial Engineering Lab - II         2         45         30         75           8MEPR         Project-2         4         <	7METR	Practical Training & Industrial visit		۲	mo			100	100
Total	7MEPR	Project-1			Ō	2	50		50
SEMESTER VIII 8         8 Hrs. / Week         IA Exam         Total           Subject Code         Title         L         T         P         Exam         Total           8ME1A         Computer Integrated Manufacturing Systems         3         20         80         100           8ME2A         Laws for Engineers         3         1         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         3         20         80         100           8ME4.3A         Total Quality Management         20         80         100           8ME5A         CAM Lab         2         45         30         75           8ME6A         CAD Lab         3         60         40         100           8ME7A         Industrial Engineering Lab - II         2         45         30         75           8MESM         Seminar         2         60         40         100           8MEDC         Discipline &	7MEDC	Discipline & Extra Curricular Activity							50
Subject Code   Title		Total		18	2	10			1000
Subject Code   Title									
8ME1A         Computer Integrated Manufacturing Systems         3         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         3         20         80         100           8ME4.3A         Total Quality Management         20         80         100           8ME5A         CAM Lab         3         60         40         100           8ME6A         CAD Lab         3         60         40         100           8ME7A         Industrial Engineering Lab - II         2         45         30         75           8MESM         Seminar         2         60         40         100           8MEDC         Discipline & Extra Curricular Activity         50									
8ME2A       Laws for Engineers       3         8ME3A       Power Generation       3       1         8ME4.1A       Product Development and Launching       20       80       100         8ME4.2A       Computational Fluid Dynamics       3       20       80       100         8ME4.3A       Total Quality Management       20       80       100         8ME5A       CAM Lab       2       45       30       75         8ME6A       CAD Lab       3       60       40       100         8ME7A       Industrial Engineering Lab - II       2       45       30       75         8MESM       Seminar       2       45       30       75         8MEDC       Discipline & Extra Curricular Activity       50	SEMESTER VIII	8	8		Hrs.	/ Week	IA	Exam	Total
8ME2A       Laws for Engineers       3         8ME3A       Power Generation       3       1         8ME4.1A       Product Development and Launching       20       80       100         8ME4.2A       Computational Fluid Dynamics       3       20       80       100         8ME4.3A       Total Quality Management       20       80       100         8ME5A       CAM Lab       2       45       30       75         8ME6A       CAD Lab       3       60       40       100         8ME7A       Industrial Engineering Lab - II       2       45       30       75         8MESM       Seminar       2       45       30       75         8MEDC       Discipline & Extra Curricular Activity       50		Title		L			IA	Exam	Total
SME4.3A         Total Quality Management           Practicals and Sessionals           8ME5A         CAM Lab         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	Subject Code	Title		3					
SME4.3A         Total Quality Management           Practicals and Sessionals           8ME5A         CAM Lab         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	Subject Code 8ME1A	Title Computer Integrated Manufacturing System		3		Р	20	80	100
SME4.3A         Total Quality Management           Practicals and Sessionals           8ME5A         CAM Lab         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	Subject Code 8ME1A 8ME2A	Title Computer Integrated Manufacturing System Laws for Engineers		3	Т	Р	20 20	80 80	100 100
Practicals and Sessionals	Subject Code 8ME1A 8ME2A 8ME3A	Title Computer Integrated Manufacturing System Laws for Engineers Power Generation		3	Т	Р	20 20	80 80	100 100
8ME5A       CAM Lab       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	Subject Code 8ME1A 8ME2A 8ME3A 8ME4.1A	Title Computer Integrated Manufacturing System Laws for Engineers Power Generation Product Development and Launching		3 3	Т	Р	20 20 20	80 80 80	100 100 100
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	Subject Code 8ME1A 8ME2A 8ME3A 8ME4.1A 8ME4.2A	Title Computer Integrated Manufacturing System Laws for Engineers Power Generation Product Development and Launching Computational Fluid Dynamics		3 3	Т	Р	20 20 20	80 80 80	100 100 100
8MEDC Discipline & Extra Curricular Activity 50	Subject Code 8ME1A 8ME2A 8ME3A 8ME4.1A 8ME4.2A	Title Computer Integrated Manufacturing System Laws for Engineers Power Generation Product Development and Launching Computational Fluid Dynamics Total Quality Management		3 3	Т	Р	20 20 20	80 80 80	100 100 100
8MEDC Discipline & Extra Curricular Activity 50	Subject Code 8ME1A 8ME2A 8ME3A 8ME4.1A 8ME4.2A 8ME4.3A	Title Computer Integrated Manufacturing System Laws for Engineers Power Generation Product Development and Launching Computational Fluid Dynamics Total Quality Management Practicals and Sessionals		3 3 3	1	Theory d	20 20 20 20	80 80 80 80	100 100 100 100
8MEDC Discipline & Extra Curricular Activity 50	Subject Code 8ME1A 8ME2A 8ME3A 8ME4.1A 8ME4.2A 8ME4.3A	Title Computer Integrated Manufacturing System Laws for Engineers Power Generation Product Development and Launching Computational Fluid Dynamics Total Quality Management Practicals and Sessionals CAM Lab		3 3 3	1	S Subjects	20 20 20 20 20	80 80 80 80	100 100 100 100 75 100
8MEDC Discipline & Extra Curricular Activity 50	Subject Code 8ME1A 8ME2A 8ME3A 8ME4.1A 8ME4.2A 8ME4.3A 8ME5A 8ME5A 8ME6A	Title Computer Integrated Manufacturing System Laws for Engineers Power Generation Product Development and Launching Computational Fluid Dynamics Total Quality Management Practicals and Sessionals CAM Lab CAD Lab		3 3 3	1	S S Subjects	20 20 20 20 20 45 60	80 80 80 80 80	100 100 100 100 75 100 75
	Subject Code 8ME1A 8ME2A 8ME3A 8ME4.1A 8ME4.2A 8ME4.3A	Title Computer Integrated Manufacturing System Laws for Engineers Power Generation Product Development and Launching Computational Fluid Dynamics Total Quality Management Practicals and Sessionals CAM Lab CAD Lab Industrial Engineering Lab - II		3 3 3	1	Theory a Subjects	20 20 20 20 20 45 60 45	80 80 80 80 80 30 40 30	100 100 100 100 75 100 75
Total 12 1 13 1000	Subject Code 8ME1A 8ME2A 8ME3A 8ME4.1A 8ME4.2A 8ME4.3A  8ME5A 8ME5A 8ME6A 8ME7A 8MEPR	Title Computer Integrated Manufacturing System Laws for Engineers Power Generation Product Development and Launching Computational Fluid Dynamics Total Quality Management Practicals and Sessionals CAM Lab CAD Lab Industrial Engineering Lab - II Project-2		3 3 3	1	Theory a Subjects	20 20 20 20 20 45 60 45 120	80 80 80 80 80 30 40 30 80	100 100 100 100 75 100 75 200
	Subject Code  8ME1A  8ME2A  8ME3A  8ME4.1A  8ME4.2A  8ME4.3A  8ME5A  8ME6A  8ME7A  8MEPR  8MESM	Title Computer Integrated Manufacturing System Laws for Engineers Power Generation Product Development and Launching Computational Fluid Dynamics Total Quality Management Practicals and Sessionals CAM Lab CAD Lab Industrial Engineering Lab - II Project-2 Seminar		3 3 3	1	Theory a Subjects	20 20 20 20 20 45 60 45 120	80 80 80 80 80 30 40 30 80	100 100 100 100 75 100 75 200 100