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

							Code	ME
Course	BOS Mechanical				70			
SEMESTER III	3	3	Contact Hrs. / Week			IA	Exam	Total
Subject Code	Title		L	T	P	IA	Exam	Total
3ME1A	Mechanics of Solids-I		3	1	Theory Subjects	20	80	100
3ME2A	Material Science and Engineering		3			20	80	100
3ME3A	Engineering Thermodynamics		3	1		20	80	100
3ME4A	Manufacturing Processes		3			20	80	100
3ME5A	Object Oriented Programming in C ++		2			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	Hrs. / Week			IA	Exam	Total
Subject Code	Title		L	T	P	IA	Exam	Total
4ME1A	Kinematics of Machines		3	1	Theory Subjects	20	80	100
4ME2A	Fluid Mechanics & Machines		3	1		20	80	100
4ME3A	Machining & Machine Tools		3			20	80	100
4ME4A	Design of Machine Elements - I		3			20	80	100
4ME5A	Industrial Engineering		3			20	80	100
4ME6A	I.C. Engines		3			20	80	100
	Practicals and Sessionals							
4ME7A	Kinematics of Machine Lab		Lab courses		2	45	30	75
4ME8A	Fluid Mechanics Lab				2	30	20	50
4ME9A	Production Practice-II				3	45	30	75
4ME10A	Machine Design Sessional - I				3	45	30	75
4ME11A	Thermal Engineering Lab-I				2	45	30	75
4MEDC	Discipline & Extra Curricular Activity							50
	Total		18	2	12			1000

Applicable from Academic Session 2012-13

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

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							
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				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							
6ME6.2A	Design and Manufacture of Plastic Products		3			20	80	100
6ME6.3A	Maintenance Management							
	Practicals and Sessionals							
6ME7A	Machine Design Sessional -II			Lab courses	3	75	50	125
6ME8A	Industrial Engineering Lab-I				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

Applicable from Academic Session 2012-13

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

Subject Code	Title		L	T	P			
7ME1A	Finite Element Methods		3		Theory Subjects	20	80	100
7ME2A	Refrigeration & Air-conditioning		3	1		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		Lab courses		3	60	40	100
7ME8A	FEM Lab				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	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							
8ME4.2A	Computational Fluid Dynamics		3			20	80	100
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

Applicable from Academic Session 2012-13