# RAJASTHAN TECHNICAL UNIVERSITY, KOTA B. Tech. Scheme

Course	Course Production & Industrial Engg.								
SEM III	3	Hrs. / Week			ΙΑ	Exam	Total		
code	Title	L	Т	Ρ					
3PI1A	Mechanics of Solids	3			20	80	100		
3PI2A	Material Science and Engineering	3		, si	20	80	100		
3PI3A	Engineering Thermodynamics	3		heory ubject:	20	80	100		
3PI4A	Foundry and Welding Technology	3		l heory ubjects	20	80	100		
3PI5A	Work System Design and Ergonomics	3		S –	20	80	100		
3PI6A	Advanced Engineering Mathematics	3	1		20	80	100		
	Practicals and Sessionals								
3PI7A	Material Science and Testing Lab			2	45	30	75		
3PI8A	Introduction to Mechanical Engineering Lab			2	45	30	75		
3PI9A	Production Practice - I			3	45	30	75		
<b>3PI10A</b>	Work System Design Lab			2	30	20	50		
<b>3PI11A</b>	Communication Skill Workshop			2	45	30	75		
3PIDC	Discipline & Extra Curricular Activity						50		
	Total	18	1	11			1000		

SEM IV	4	Hrs. / Week			ΙΑ	Exam	Total
code	Title	L	Т	Ρ			
4PI1A	Metal Forming Processes	3			20	80	100
4PI2A	Fluid Engineering	3		st v	20	80	100
4PI3A	Theory of Machines	3		heory ubject:	20	80	100
4PI4A	Design of Machine Elements - I	3		l heory ubjects	20	80	100
4PI5A	Machining Processes and Machine Tools	3		S	20	80	100
4 <b>PI6A</b>	Principles and Practices of Management	3			20	80	100
	Practicals and Sessionals						
<b>4PI7A</b>	Fluid Mechanics Lab	50	0	2	45	30	75
4 <b>PI</b> 8A	Theory of Machines Lab	Ċ	ň =	2	30	20	50
4PI9A	Production Practice-II	2		3	45	30	75
4PI10A	Machine Design Sessional - I	4	-	2	45	30	75
4PI11A	Production Engineering Drawing		Ľ	3	45	30	75
4PIDC	Discipline & Extra Curricular Activity						50
	Total	18	0	12			1000

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# Course

### Production & Industrial Engg.

Code PI

SEM V	5	Hrs	. / W	eek	ΙΑ	Exam	Total
code	Title	L	Т	Ρ			
5PI1A	Operations Research	3	1		20	80	100
5PI2A	Tool Engineering	3		cts	20	80	100
5PI3A	Measurement and Metrology	3		Subje	20	80	100
5PI4A	Quality Control and Design of Experiments	3		Sut	20	80	100
5PI5A	Sociology and Economics for Engineers	3			20	80	100
5PI6.1A	Computer Aided Design and Graphics			Theory			
5PI6.2A	I.C. Engines and Automobile Engineering	3		μ	20	80	100
5PI6.3A	Statistics for Decision Making						
	Practicals and Sessionals						
5PI7A	Metal Cutting Lab		S	2	60	40	100
5PI8A	QC and OR Lab	Lab	ourses	3	60	40	100
5PI9A	Metal forming and tool design Lab	Ľ	Ino	3	60	40	100
5PI10A	Professional Ethics and Disaster Management		ö	3	30	20	50
5PIDC	Discipline & Extra Curricular Activity						50
	Total	18	1	11			1000

SEM VI	6	6 Hr	s. / W	eek	ΙΑ	Exam	Total
code	Title	L	Τ	Ρ			
6PI1A	Design of Machine Elements - II	3			20	80	100
6PI2A	Advanced Manufacturing Methods	3		cts	20	80	100
6PI3A	Mechatronics	3		ojec	20	80	100
6PI4A	Operations Planning and Control	3		Subje	20	80	100
6PI5A	Thermal Engineering	3	1	∑.	20	80	100
6PI6.1A	Industrial Economics			Theo			
6PI6.2A	Non Destructive Evaluation and Testing	3		Ť	20	80	100
6PI6.3A	Packaging Materials and Technology						
	Practicals and Sessionals						
6PI7A	Machine Design Sessional - II		S	3	60	40	100
6PI8A	Thermal Engineering Lab	Lab	Se	3	60	40	100
6PI9A	Mechatronics Lab.	L <sub>0</sub>	ourses	3	60	40	100
6PI10A	Metrology Lab		õ	2	30	20	50
6PIDC	Discipline & Extra Curricular Activity						
	Total	18	1	11			1000

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### Production & Industrial Engg.

Code PI

SEM VII	7	Hrs. / Week			ΙΑ	Exam	Total
code	Title	L	Т	Ρ			
7PI1A	Reliability, Availability and Maintainability	3	1		20	80	100
7PI2A	Design and manufacturing of Plastic Products	3		cts	20	80	100
7PI3A	CNC Machines and Programming	3		oje	20	80	100
7PI4A	Micro and Nanao Manufacturing	3		Subjects	20	80	100
7PI5A	Facilities Planning	3			20	80	100
7PI6.1A	Production of Automotive Components			Theory			
7PI6.2A	Robotics	3		Τh	20	80	100
7PIA	Finite Element Methods						
	Practicals and Sessionals						
7PI7A	Machine Tool Design Sessional		S	3	60	40	100
7 <b>PI8A</b>	Solid Modelling & Computer Graphics Lab	Lab	rse	3	60	<b>40</b>	100
7PITR	Practical Training & Industrial visit	Ľ	course	2	30	20	50
7PIPR	Project-I		S	2	50		100
7PIDC	Discipline & Extra Curricular Activity						50
	Total	18	1	10			1000

SEM VIII	8	Hrs	Hrs. / Week			Exam	Total
code	Title	L	Т	Ρ			
8PI1A	Computer Integrated Manufacturing	3		cts	20	80	100
8PI2A	Laws for Engineers	3		Subjects	20	80	100
8PI3A	Total Quality Management	3		Sul	20	80	100
8PI4.1A	Modeling and Simulation						
8PI4.2A	Management Information Systems	3		Theory	20	80	100
8PI4.3A	Product Design and Launching			ЧТ			
	Practicals and Sessionals						
8PI5A	CAM Lab.	9	0	2	45	30	75
8PI6A	Simulation Lab			3	45	30	75
8PI7A	Industrial Engineering Lab		3	3	60	40	100
8PIPR	Project-II		Lab c		120	80	200
8PISM	Seminar	-			60	<b>40</b>	100
8PIDC	Discipline & Extra Curricular Activity						50
	Total	12	0	14			1000