

## RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Scheme & Syllabus

IV Year- VII & VIII Semester: B. Tech. (Mechanical Engineering)

## Teaching & Examination Scheme B.Tech.: Mechanical Engineering 4<sup>th</sup> Year – VIII Semester

			THE	ORY							
SN	Categ ory	Course		Contact hrs/week			Marks				Cr
211		Code	Title	L	T	P	Exm Hrs	IA	ET E	Total	
1	PEC	8ME5-11	Hybrid and Electric Vehicles	3	0	0	3	30	120	150	
2		8ME5-12	Supply and Operations Management								3
3		8ME5-13	Additive Manufacturing								
4	OE		Open Elective - II	3	0	0	3	30	120	150	3
			Sub Total	6	0	0		60	240	300	6
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PRACTICAL & SESSIONAL											
5	PCC	8ME4-21	Industrial Engineering Lab	0	0	2	2	30	20	50	1
6		8ME4-22	Metrology Lab	0	0	2	2	30	20	50	1
7	PSIT	8ME7-50	Project *#	3	0	0	3	210	140	350	7
8	SODE CA	8ME8-00	Social Outreach, Discipline & Extra Curricular Activities	0	0	0		0	25	25	0.5
		Sub- Total			0	4		270	205	475	9.5
		TOTAL	9	0	4		330	445	775	15.5	

<sup>\*</sup>for the purpose of counting teaching load

#Evaluation by one internal and one external examiner (External examiner will preferably be from Industry)

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

ETE: End Term Exam, IA: Internal Assessment

Office of Dean Academic Affairs Rajasthan Technical University, Kota



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List of Open Electives for Mechanical Engineering											
Subject Code	Title		Subject Code	Title							
	Open Elective - I			Open Elective - II							
7AG6-60.1	Human Engineering and Safety		8AG6-60.1	Energy Management							
7AG6-60.2	Environmental Engineering and Disaster Management		8AG6-60.2	Waste and By-product Utilization							
7AN6-60.1	Aircraft Avionic System		8AN6-60.1	Finite Element Methods							
7AN6-60.2	Non-Destructive Testing		8AN6-60.2	Factor of Human Interactions							
7CH6-60.1	Optimization Techniques		8CH6-60.1	Refinery Engineering Design							
7CH6-60.2	Sustainable Engineering		8CH6-60.2	Fertilizer Technology							
7CR6-60.1	Introduction to Ceramic Science & Technology		8CR6-60.1	Electrical and Electronic Ceramics							
7CR6-60.2	Plant, Equipment and Furnace Design		8CR6-60.2	Biomaterials							
7CE6-60.1			8CE6-60.1	Composite Materials							
7CE6-60.2	Disaster Management		8CE6-60.2	Fire and Safety Engineering							
7CS6-60.1	Quality Management/ISO 9000		8CS6-60.1	Big Data Analytics							
7CS6-60.2	Cyber Security		8CS6-60.2	IPR, Copyright and Cyber Law of India							
7EE6-60.1	Electrical Machines and Drives		8EE6-60.1	Energy Audit and Demand side Management							
7EE6-60.2	Power Generation Sources.		8EE6-60.2	Soft Computing							
7EC6-60.1	Principle of Electronic communication		8EC6-60.1	Industrial and Biomedical applications of RF Energy							
7EC6-60.2	Micro and Smart System Technology		8EC6-60.2	Robotics and control							
7MI6-60.1	Rock Engineering		8MI6-60.1	Experimental Stress Analysis							
7MI6-60.2	Mineral Processing		8MI6-60.2	Maintenance Management							
7PE6-60.1	Pipeline Engineering		8PE6-60.1	Unconventional Hydrocarbon Resources							
7PE6-60.2	Water Pollution control Engineering		8PE6-60.2	Energy Management & Policy							
7TT6-60.1	Technical Textiles		8TT6-60.1	Material and Human Resource Management							
7TT6-60.2	Garment Manufacturing Technology		8TT6-60.2	Disaster Management							

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