

**SCHOOL OF ENGINEERING AND TECHNOLOGY
SRI PADMAVATI MAHILA VISVAVIDYALAYAM
SCHEME OF INSTRUCTION AND EVALUATION OF B.TECH (ME)
DEPARTMENT OF MECHANICAL ENGINEERING
I YEAR – I SEMESTER (2019-20)**

THEORY												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (30 Marks)		External (70 Marks)			
							Assignment	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
1	19BST04	Engineering Mathematics –I	3	1	0	4	5	2	25	3	70	100
2	19BST03	Engineering Physics	3	1	0	4	5	2	25	3	70	100
3	19BST01	Functional English	3	0	0	3	5	2	25	3	70	100
4	19ECT01	Basic Electronics Engineering	2	1	0	3	5	2	25	3	70	100
PRACTICALS												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (40 Marks)		External (60 Marks)			
							Continuous	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
5	19BSP03	Engineering Physics Lab	0	0	2	1	20	2	20	3	60	100
6	19BSP01	Communicative English Lab	0	0	2	1	20	2	20	3	60	100
7	19MEP03	Workshop and Manufacturing Practices	0	0	4	2	20	2	20	3	60	100
8	19ECP01	Basic Electronics Engineering Lab	0	0	2	1	20	2	20	3	60	100
Total			11	3	10	19						800

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I YEAR – II SEMESTER (2019-20)**

THEORY												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (30 Marks)		External (70 Marks)			
							Assignment	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
1	19BST05	Engineering Mathematics –II	3	1	0	4	5	2	25	3	70	100
2	19BST02	Engineering Chemistry	3	1	0	4	5	2	25	3	70	100
3	19CST01	Programming for Problem Solving	2	1	0	3	5	2	25	3	70	100
4	19EET01	Basic Electrical Engineering	2	1	0	3	5	2	25	3	70	100
5	19BST13	Essence of Indian Knowledge Tradition	3	0	0	Satisfactory / Not Satisfactory						
PRACTICALS												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (40 Marks)		External (60 Marks)			
							Continuous	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
6	19BSP02	Engineering Chemistry Lab	0	0	2	1	20	2	20	3	60	100
7	19CSP01	Programming for Problem Solving Lab	0	0	4	2	20	2	20	3	60	100
8	19EEP01	Basic Electrical Engineering Lab	0	0	2	1	20	2	20	3	60	100
9	19MEP01	Engineering Graphics	0	0	6	3	20	2	20	3	60	100
Total			13	4	14	21						800

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II YEAR – I SEMESTER (2019-20)**

THEORY												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
			Internal (30 Marks)				External (70 Marks)					
			Assignment		Test							
			Max. Marks	Duration	Max.				Duration	Max.		
L	T	P										
1	19BST08	Economics & Accountancy	3	1	0	4	5	2	25	3	70	100
2	19MET01	Basic Thermodynamics	2	1	0	3	5	2	25	3	70	100
3	19MET02	Engineering Mechanics	3	1	0	4	5	2	25	3	70	100
4	19MET03	Material Science and Metallurgy	2	1	0	3	5	2	25	3	70	100
5	19MET06	Manufacturing Technology	2	1	0	3	5	2	25	3	70	100
PRACTICALS												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
			Internal (40 Marks)				External (60 Marks)					
			Continuous		Test							
			Max. Marks	Duration	Max.				Duration	Max.		
L	T	P										
6	19MEP02	Advanced Engineering Graphics	0	0	6	3	20	2	20	3	60	100
7	19MEP06	Manufacturing Technology Lab	0	0	2	1	20	2	20	3	60	100
Total			12	5	8	21						700

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THEORY												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (30 Marks)			External (70 Marks)		
							Assignment	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
1	19BST07	Probability & Statistics	2	1	0	3	5	2	25	3	70	100
2	19BST09	Industrial Management	3	0	0	3	5	2	25	3	70	100
3	19MET04	Applied Thermodynamics	2	1	0	3	5	2	25	3	70	100
4	19MET05	Strength of Materials	2	1	0	3	5	2	25	3	70	100
5	19MET07	Fluid Mechanics & Hydraulic Machinery	2	1	0	3	5	2	25	3	70	100
6	19MET12	Mechanical Measurements	2	1	0	3	5	2	25	3	70	100
7	19BST12	Environmental Studies	3	0	0	0	Satisfactory / Not Satisfactory					
PRACTICALS												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (40 Marks)			External (60 Marks)		
							Continuous	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
8	19MEP04	Thermal Engineering Lab	0	0	2	1	20	2	20	3	60	100
9	19MEP05	Strength of Materials & Material Science Lab	0	0	2	1	20	2	20	3	60	100
Total			16	5	4	20						800

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III YEAR – I SEMESTER (2019-20)**

THEORY														
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks		
							Internal (30 Marks)		External (70 Marks)					
							Assignment	Test						
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.			
1	19BST10	Entrepreneurship & Project Management	3	0	0	3	5	2	25	3	70	100		
2	19MET08	Heat Transfer	2	1	0	3	5	2	25	3	70	100		
3	19MET09	Design of Machine Members – I	2	1	0	3	5	2	25	3	70	100		
4	19MET10	Metal Cutting and Machine Tools	3	1	0	4	5	2	25	3	70	100		
5	19MET11	Kinematics of Machinery	2	1	0	3	5	2	25	3	70	100		
6		Elective – I	2	1	0	3	5	2	25	3	70	100		
7	19BST11	Constitution of India	3	0	0	0	Satisfactory / Not Satisfactory							
PRACTICALS														
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks		
							Internal (40 Marks)		External (60 Marks)					
							Continuous	Test						
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.			
8	19MEP07	Fluid Mechanics & Hydraulic Machinery Lab	0	0	2	1	20	2	20	3	60	100		
9	19MEP11	Heat Transfer Lab	0	0	2	1	20	2	20	3	60	100		
Total			17	5	4	21						800		

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III YEAR – II SEMESTER (2019-20)**

THEORY												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (30 Marks)			External (70 Marks)		
							Assignment	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
1	19MET13	Modern Manufacturing Methods	2	1	0	3	5	2	25	3	70	100
2	19MET14	Design of Machine Members – II	2	1	0	3	5	2	25	3	70	100
3	19MET15	Dynamics of Machinery	2	1	0	3	5	2	25	3	70	100
4	19MET16	Operations Research	3	1	0	4	5	2	25	3	70	100
5		Elective –II	2	1	0	3	5	2	25	3	70	100
6		Open Elective – I	3	0	0	3	5	2	25	3	70	100
PRACTICALS												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (40 Marks)			External (60 Marks)		
							Continuous	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
7	19MEP08	Computer Aided Machine Drawing	0	0	6	3	20	2	20	3	60	100
8	19MEP09	Machine Tools and Metrology Lab	0	0	2	1	20	2	20	3	60	100
Total			14	5	8	23						800

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IV YEAR – I SEMESTER (2019-20)**

THEORY												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (30 Marks)			External (70 Marks)		
							Assignment	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
1	19MET17	CAD/CAM	2	1	0	3	5	2	25	3	70	100
2		Elective – III	2	1	0	3	5	2	25	3	70	100
3	19MEM01	Elective – IV (Mandatory MOOCs)	0	0	0	3	0	0	0	0	0	0
4		Open Elective – II	3	0	0	3	5	2	25	3	70	100
PRACTICALS												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (40 Marks)			External (60 Marks)		
							Continuous	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
5	19MEP10	Machine Dynamics & Mechanical Measurements Lab	0	0	2	1	20	2	20	3	60	100
6	19MEI01	Internship	0	0	0	2	100	0	0	0	0	100
7	19MES01	Technical Seminar	0	0	2	1	100	0	0	0	0	100
8	19MEJ01	Project Work Phase – I	0	0	4	2	40	0	0	0	60	100
Total			7	2	8	18						700

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IV YEAR – II SEMESTER (2019-20)**

THEORY														
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks		
							Internal (30 Marks)		External (70 Marks)					
							Assignment	Test						
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.			
1		Elective – V	2	1	0	3	5	2	25	3	70	100		
2		Elective –VI	2	1	0	3	5	2	25	3	70	100		
3		Open Elective – III	3	0	0	3	5	2	25	3	70	100		
PRACTICALS														
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks		
							Internal (40 Marks)		External (60 Marks)					
							Continuous	Test						
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.			
4	19MEJ02	Project Work Phase-II	0	0	16	8	40	0	0	0	60	100		
Total			7	2	16	17						400		

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LIST OF ELECTIVES (2019-20)

ELECTIVE – I

S.No	Course Code	Course Title
1	19MET18	Non Conventional Energy Sources
2	19MET19	Refrigeration & Air conditioning
3	19MET20	Fuels Combustion and Environment
4	19MET21	Gas Turbines and jet propulsion

ELECTIVE-II

S.No	Course Code	Course Title
1	19MET22	Mechanical Vibrations
2	19MET23	Finite Element Method
3	19MET24	Composite Materials
4	19MEP12	Design Thinking

ELECTIVE – III

S.No	Course Code	Course Title
1	19MET25	Tool Design
2	19MET26	Robotics
3	19MET27	Automation in Manufacturing
4	19MET28	Facility location and layout

ELECTIVE – IV

S.No	Course Code	Course Title
1	19MEM01	MANDATORY MOOCs

ELECTIVE – V

S.No	Course Code	Course Title
1	19MET29	Operations Management
2	19MET30	Non-linear Programming
3	19MET31	Work Study

ELECTIVE – VI

S.No	Course Code	Course Title
1	19MET32	Additive Manufacturing
2	19MET33	Product Design & Development
3	19MET34	Simulation and Modeling of Manufacturing Systems
4	19MET35	Automobile Engineering

***Any MOOCs Course can be taken as ELECTIVE - IV as specified by the Department Council from time to time.**

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LIST OF OPEN ELECTIVES OFFERED BY MECHANICAL ENGINEERING DEPARTMENT TO OTHER DEPARTMENTS ((2019-20))

OPEN ELECTIVE - I			OPEN ELECTIVE - II			OPEN ELECTIVE - III		
S.No	Course Code	Course Title	S.No	Course Code	Course Title	S.No	Course Code	Course Title
1	19MEP13	Engineering Projects In Community Services (Project based)	1	19MET38	Data Analytics for Decision Making	1	19MET41	Total Quality Management
2	19MET36	Time and Motion Study	2	19MET39	Power Plant Engineering	2	19MET42	Production Planning & Control
3	19MET37	Nano Technology	3	19MET40	Plant layout and Design	3	19MET43	Supply Chain Management

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LIST OF OPEN ELECTIVES OFFERED BY OTHER DEPARTMENTS (2019-20)

OPEN ELECTIVE – I

S.No	Course Code	Course Title	Offering Department
1	19CST33	Basics of Data Structures	CSE
2	19CST34	Introduction to C++ Programming	
3	19CSP13	Advanced Programming Lab	
4	19CST35	Fundamentals of Computer Organization	ECE
5	19ECT34	Pulse and Digital Circuits	
6	19ECT35	Electronic Measurements	EEE
7	19EET31	Electrical Engineering Materials	
8	19EET32	Energy Auditing and Demand Side Management	BS&H
9	19MUP01	Music Vocal	
10	19MUP02	Dance Bharatanatyam	
11	19MUP03	Dance Kuchipudi	

OPEN ELECTIVE – II

S.No	Course Code	Course Title	Offering Department
1	19CST36	Basics of Computer Networks	CSE
2	19CST37	Introduction to programming with Python	
3	19CST38	Introduction to Database Management Systems	
4	19CST39	Introduction to Cloud Computing	
5	19ECT39	Microcontrollers & Interfacing	ECE
6	19ECT40	Basics of Embedded Systems	
7	19ECT41	Digital Image Processing	
8	19EET33	Artificial Neural Networks	EEE
9	19EET34	Energy Storage Systems	
10	19BST14	LSRW Skills	BS&H

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OPEN ELECTIVE – III

S.No	Course Code	Course Title	Offering Department
1	19CST40	Introduction to Cyber Security	CSE
2	19CST41	Introduction to Artificial Intelligence	
3	19CST42	Introduction to Java Programming	
4	19CST43	Fundamentals of Internet of Things	
5	19ECT36	Communication Systems	ECE
6	19ECT37	Microprocessors & Interfacing	
7	19ECT38	Digital Design using VHDL	
8	19EET35	Conventional & Non-Conventional Energy Sources	EEE
9	19EET36	Design Costing of Electrical System	
10	19BST15	Data Analytics for Decision Making	BS&H

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