

SCHOOL OF ENGINEERING AND TECHNOLOGY
SRI PADMAVATI MAHILA VISVA VIDYALAYAM
SCHEME OF INSTRUCTION AND EVALUATION OF B.TECH (ME)
DEPARTMENT OF MECHANICAL ENGINEERING
I YEAR - I SEMESTER (2023-24)

Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation						Total Marks	
			L	T	P		Internal (30 Marks)			External (70 Marks)				
							Assignment Max. Marks	Objective Duration (Mins)	Marks	Subjective Duration (Mins)	Marks	Duration		Max. Marks
BS	23BST01	Linear Algebra & Calculus	3	0	0	3	5	20	10	90	15	3	70	100
BS	23BST03	Engineering Physics	3	0	0	3	5	20	10	90	15	3	70	100
BS	23BST05	Communicative English	2	0	0	2	5	20	10	90	15	3	70	100
ES	23CST01	Introduction to Programming	3	0	0	3	5	20	10	90	15	3	70	100
ES	23EET01	Basic Electrical & Electronics Engineering	3	0	0	3	5	20	10	90	15	3	70	100

PRACTICALS

Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation						Total Marks
			L	T	P		Internal (30 Marks)			External (70 Marks)			
							Continuous Max. Marks	Duration	Test Max.	Duration	Max.	Duration	
BS	23BSP03	Engineering Physics Lab	0	0	2	1	15	2	15	15	3	70	100
BS	23BSP05	Communicative English Lab	0	0	2	1	15	2	15	15	3	70	100
ES	23CSP01	Computer Programming Lab	0	0	3	1.5	15	2	15	15	3	70	100
ES	23MEP01	Engineering Workshop	0	0	3	1.5	15	2	15	15	3	70	100
ES	23CSP02	IT Workshop	2	0	0	1	15	2	15	15	3	70	100
BS	23PEP01	Health, Wellness, Yoga, Sports	0	0	1	0.5	15	2	15	15	3	70	100
Total			16	0	10	20.5	15	2	15	15	3	70	1100

COORDINATOR
 Department of Mechanical Engg.
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 Sri PadmaVati Mahila Visva Vidyalayam

Chairman (BOS)
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 Sri PadmaVati Mahila Visva Vidyalayam
 Tirupati-517 502

Director, SOE'S

SCHOOL OF ENGINEERING AND TECHNOLOGY
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SCHEME OF INSTRUCTION AND EVALUATION OF B.TECH (ME)
DEPARTMENT OF MECHANICAL ENGINEERING
I YEAR - II SEMESTER (2023-24)

Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation						Total Marks	
			L	T	P		Internal (30 Marks)			External (70 Marks)				
							Max. Marks	Objective Duration (Mins)	Marks	Subjective Duration (Mins)	Marks	Duration		Max. Marks
BS	23BST02	Differential Equations and Vector Calculus	3	0	0	3	5	20	10	90	15	3	70	100
BS	23BST06	Engineering Chemistry	3	0	0	3	5	20	10	90	15	3	70	100
ES	23CMT01	Basic Civil and Mechanical Engineering	3	0	0	3	5	20	10	90	15	3	70	100
PC	23MET01	Engineering Mechanics	3	0	0	3	5	20	10	90	15	3	70	100

PRACTICALS

Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation						Total Marks
			L	T	P		Internal (30 Marks)			External (70 Marks)			
							Max. Marks	Duration	Test	Max. Marks	Duration	Max. Marks	
BS	23BSP06	Engineering Chemistry Lab	0	0	2	1	15	2	15	15	3	70	100
ES	23MED01	Engineering Graphics	1	0	4	3	15	2	15	15	3	70	100
ES	23EEP01	Electrical and Electronics Engineering Workshop	0	0	3	1.5	15	2	15	15	3	70	100
PC	23MEP02	Engineering Mechanics Lab	0	0	3	1.5	15	2	15	15	3	70	100
BS	23NSP01	NSS / Community Service	0	0	1	0.5	15	2	15	15	3	70	100
Total			13	0	13	19.5							900

COORDINATOR
Co-ordinator

Department of Mechanical Engg.
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Sri Padmavati Mahila Visva Vidyalayam
TIRUPATI-517 502

BOS Chairman (BOS)
Chairman/ BOS

Department of Mechanical Engineering
School of Engineering & Technology
SRI PADMAVATI MAHILA VISVA VIDYALAYAM
TIRUPATI-517 502

MINDA, 2023

SCHOOL OF ENGINEERING AND TECHNOLOGY
SRI PADMAVATI MAHLA VISVAVIDYALAYAM
SCHEME OF INSTRUCTION AND EVALUATION OF B.TECH (ME)
DEPARTMENT OF MECHANICAL ENGINEERING
II YEAR - I SEMESTER (2023-24)

Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation										Total Marks
			L	T	P		Internal (30 Marks)					External (70 Marks)					
							Assignment Max. Marks	Objective Duration	Objective Marks	Subjective Duration	Subjective Marks	Duration	Max. Marks				
BS	23BST03	Numerical Methods & Transform Techniques	3	0	0	3	5	20	10	90	15	3	70	100			
HM	23HMT01	Universal Human Values-Understanding Harmony & Ethical human conduct	2	1	0	3	5	20	10	90	15	3	70	100			
PC	23MET02	Thermodynamics	3	0	0	3	5	20	10	90	15	3	70	100			
PC	23MET03	Mechanics of Solids	3	0	0	3	5	20	10	90	15	3	70	100			
PC	23MET04	Material Science and Metallurgy	3	0	0	3	5	20	10	90	15	3	70	100			
MAN-	23HMT03	Environmental Science	2	0	0	2											

PRACTICALS

Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation										Total Marks
			L	T	P		Internal (30 Marks)					External (70 Marks)					
							Continuous Max. Marks	Duration	Test	Max.	Duration	Max. Marks					
PC	23MEP03	Mechanics of Solids and Materials Science Lab	0	0	3	1.5	15	2			15	3	70	100			
PC	23MEP04	Computer-aided Machine Drawing	0	0	3	1.5	15	2			15	3	70	100			
ES	23CSP12	Python programming Lab	0	0	2	1	15	2			15	3	70	100			
SC	23ECS03	Embedded Systems and IoT	0	1	2	2	15	2			15	3	70	100			
Total			17	1	10	21								900			

CORPORATION
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SRI PADMAVATHI MAHLA VISVAVIDYALAYAM
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SCHOOL OF ENGINEERING AND TECHNOLOGY
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DEPARTMENT OF MECHANICAL ENGINEERING
II YEAR – II SEMESTER (2023-24)

Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation							Total Marks		
			L	T	P		Internal (30 Marks)			Test		Subjective			External (70 Marks)	
							Max. Marks	Duration (Mins)	Marks	Duration (Mins)	Marks	Duration	Max. Marks		Duration	Max. Marks
PC	23MET50	Industrial Management	2	0	0	2	5	20	10	90	15	3	70	100		
BS	23BST12	Complex Variables, Probability and Statistics	3	0	0	3	5	20	10	90	15	3	70	100		
PC	23MET05	Manufacturing processes	3	0	0	3	5	20	10	90	15	3	70	100		
PC	23MET06	Fluid Mechanics & Hydraulic Machines	3	0	0	3	5	20	10	90	15	3	70	100		
PC	23MET07	Theory of Machines	3	0	0	3	5	20	10	90	15	3	70	100		
PRACTICALS																
Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation							Total Marks		
			L	T	P		Continuous	Internal (30 Marks)	Test	Max.	External (70 Marks)	Duration	Max.			
PC	23MEP05	Fluid Mechanics & Hydraulic Machines Lab	0	0	2	1	15	2	15	3	70	100				
PC	23MEP06	Manufacturing processes Lab	0	0	2	1	15	2	15	3	70	100				
SC	23BSS01	Soft Skills	0	1	2	2	15	2	15	3	70	100				
HM	23HMP01	Design Thinking & Innovation	1	0	2	2	15	2	15	3	70	100				
Total			15	1	8	20						900				

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DEPARTMENT OF MECHANICAL ENGINEERING
III YEAR - I SEMESTER (2023-24)

Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation						Total Marks		
			L	T	P		Internal (30 Marks)		Test		Subjective			External (70 Marks)	
							Max. Marks	Duration (Mins)	Objective Marks	Duration (Mins)	Subjective Marks	Duration		Max. Marks	
PC	23MET09	Machine Tools & Metrology	3	0	0	3	5	20	10	90	15	3	70	100	
PC	23MET10	Thermal Engineering	3	0	0	3	5	20	10	90	15	3	70	100	
PC	23MET11	Design of Machine Members	3	0	0	3	5	20	10	90	15	3	70	100	
PE		Professional Elective - 1	3	0	0	3	5	20	10	90	15	3	70	100	
OE		Open Elective-I	3	0	0	3	5	20	10	90	15	3	70	100	

PRACTICALS

Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation						Total Marks		
			L	T	P		Internal (30 Marks)		Test		Max.			External (70 Marks)	
							Max. Marks	Duration	Duration	Max.	Duration	Max.		Duration	Max.
PC	23MEP07	Thermal Engineering Lab	0	0	3	1.5	15	2	15	3	70	100			
PC	23MEP08	Theory of Machines Lab	0	0	3	1.5	15	2	15	3	70	100			
SC	23MES01	Machine Tools & Metrology	0	1	2	2	15	2	15	3	70	100			
ES	23BSP07	Tinkering Lab	0	0	2	1	15	2	15	3	70	100			
CSI	23MEI01	Community Service Internship	0	0	0	2				3	50	50			
Total			15	1	10	23						950			

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SCHOOL OF ENGINEERING AND TECHNOLOGY
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SCHEME OF INSTRUCTION AND EVALUATION OF B.TECH (ME)
DEPARTMENT OF MECHANICAL ENGINEERING
III YEAR - II SEMESTER (2023-24)

THEORY

Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation						Total Marks	
			L	T	P		Internal (30 Marks)			External (70 Marks)				
							Assignment	Objective	Subjective	Test	Duration	Max. Marks		
PC	23MET12	Heat Transfer	3	0	0	3	5	20	10	90	15	3	70	100
PC	23MET13	Robotics	3	0	0	3	5	20	10	90	15	3	70	100
PC	23EET09	Control systems	3	0	0	3	5	20	10	90	15	3	70	100
PE		Professional Elective-II	3	0	0	3	5	20	10	90	15	3	70	100
PE		Professional Elective-III (Mandatory MOOCs)	3	0	0	3	5	20	10	90	15	3	70	100
OE		Open Elective - II	3	0	0	3	5	20	10	90	15	3	70	100
BS	23BST13	Technical paper writing and IPR	2	0	0	0								

PRACTICALS

Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation						Total Marks
			L	T	P		Internal (30 Marks)			External (70 Marks)			
							Continuous	Duration	Max. Marks	Test	Duration	Max. Marks	
PC	23MEP10	Heat Transfer Lab	0	0	3	1.5	15	2		15	3	70	100
PC	23EEP07	Control systems Lab	0	0	3	1.5	15	2		15	3	70	100
ES	23CSS06	Artificial Intelligence and Machine Learning	0	1	2	2	15	2		15	3	70	100
Total			20	1	8	23							1000

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SCHOOL OF ENGINEERING AND TECHNOLOGY
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DEPARTMENT OF MECHANICAL ENGINEERING
IV YEAR - I SEMESTER (2023-24)

Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation							Total Marks	
			L	T	P		Internal (30 Marks)			Test			External (70 Marks)		
							Max. Marks	Duration (Mins)	Marks	Objective	Subjective	Duration (Mins)	Marks		Duration
PC	23MET14	CAD/CAM	2	0	0	2	5	20	10	90	15	3	3	70	100
PC	23MET15	Operations Research	2	0	0	2	5	20	10	90	15	3	3	70	100
PE		Professional Elective-IV	3	0	0	3	5	20	10	90	15	3	3	70	100
PE		Professional Elective-V	3	0	0	3	5	20	10	90	15	3	3	70	100
OE		Open Elective - III	3	0	0	3	5	20	10	90	15	3	3	70	100
OE		Open Elective-IV	3	0	0	3	5	20	10	90	15	3	3	70	100
BS	23BST15	Gender Sensitization	2	0	0	0									

PRACTICALS

Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation							Total Marks	
			L	T	P		Internal (30 Marks)			Test			External (70 Marks)		
							Max. Marks	Duration	Marks	Objective	Subjective	Duration	Max. Marks		Duration
PC	23MEPI1	CAD/CAM Lab	0	0	2	1	15	2			15	3	3	70	100
SC	23MES02	Geometric dimensioning and Tolerancing	0	1	2	2	15	2			15	3	3	70	100
ES	23MEI02	Evaluation of Industry Internship	0	0	0	2						3	3	50	50
Total			18	1	4	21									850

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TIRUPATI 517 502

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SRI PADMAVATI MAHILA VISVAVIDYALAYAM
TIRUPATI-517 502

SCHOOL OF ENGINEERING AND TECHNOLOGY
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SCHEME OF INSTRUCTION AND EVALUATION OF B.TECH (ME)
DEPARTMENT OF MECHANICAL ENGINEERING
IV YEAR - II SEMESTER (2023-24)

PRACTICALS

Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation						Total Marks
			L	T	P		Internal (60 Marks)			External (140 Marks)			
							Continuous	Test	Max. Marks	Duration	Max.	Duration	
PW	20ME1101	Internship and Project	0	0	24	12	60	0	0	0	0	140	200
Total			0	0	24	12							200

COORDINATOR

Co-ordinator

Department of Mechanical Engg.
School of Engineering & Technology
Sri Padmavati Mahila Visva Vidya
TIRUPATI-517 502

BOS Chairman
Chairman(BOS)

Department of Mechanical Engineering
School of Engineering & Technology
SRI PADMAVATI MAHILA VISVA VIDYALAYAM
TIRUPATI-517 502

SCHOOL OF ENGINEERING AND TECHNOLOGY
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SCHEME OF INSTRUCTION AND EVALUATION OF B.TECH (ME)
DEPARTMENT OF MECHANICAL ENGINEERING (2023-24)

LIST OF ELECTIVES

ELECTIVE - I

S. No	Course Code	Course Title	S. No	Course Code	Course Title
1	23MET16	Power Plant Engineering	1	23MET22	Mechanical Vibrations
2	23MET17	Design for Manufacturing	2	23MET23	Finite Element Methods
3	23MET18	Unconventional Machining Processes	3	23MET24	Mechatronics
4		MOOCs	4		MOOCs

ELECTIVE - IV

ELECTIVE - II

S. No	Course Code	Course Title	S. No	Course Code	Course Title
1	23MET19	Automation in Manufacturing	1	23MET25	Hydrogen and Fuel Cell Technology
2	23MET20	Composite Materials	2	23MET26	Automobile Engineering
3	23MET21	Additive Manufacturing	3	23MET27	Turbo Machines
4		MOOCs	4		MOOCs

ELECTIVE - V

ELECTIVE - III

S. No	Course Code	Course Title
1	23MEM01	Mandatory MOOCs

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TIRUPATI-517 502

Charas Srinivas

Department of Mechanical Engineering
School of Engineering & Technology
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SCHOOL OF ENGINEERING AND TECHNOLOGY
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SCHEME OF INSTRUCTION AND EVALUATION OF B.TECH (ME)
DEPARTMENT OF MECHANICAL ENGINEERING

LIST OF OPEN ELECTIVES OFFERED BY ME TO OTHER DEPARTMENTS (2023-24)

OPEN ELECTIVE - I


S. No	Course Code	Course Title	S. No	Course Code	Course Title
1	23MET28	Sustainable Energy Technologies	1	23MET38	3D Printing Technologies
2	23MET29	Applied Operations Research	2	23MET39	Introduction to Mechatronics
3	23MET30	Nano Technology	3	23MET40	Robot programming
4	23MET31	Thermal Management of Electronic systems *	4	23MET41	Product design and development
5	23MET32	Entrepreneurship	5	23MET42	Digital Marketing Management

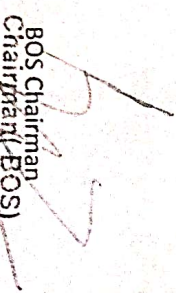
OPEN ELECTIVE - III

OPEN ELECTIVE - II

S. No	Course Code	Course Title	S. No	Course Code	Course Title
1	23MET33	Introduction to Industrial Robotics	1	23MET43	Optimization Techniques
2	23MET34	Work study and Industrial Ergonomics	2	23MET44	Advanced Manufacturing Systems
3	23MET35	Customer Relationship Management	3	23MET45	Total Quality Management
4	23MET36	Hybrid Vehicles	4	23MET46	Operations Management
5	23MET37	Industrial Safety	5	23MET47	Energy Auditing

OPEN ELECTIVE - IV


Coordinator
 Department of Mechanical Engg
 School of Engineering & Technology
 Sri Padmavati Mahila Visva Vidyalaya
 TIRUPATI-517 502


BOS Chairman
 (Chairman, BOS)
 Department of Mechanical Engineering
 School of Engineering & Technology
 SRI PADMAVATHI MAHILA VISVAVIDYALAYA
 TIRUPATI-517 502

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DEPARTMENT OF MECHANICAL ENGINEERING

LIST OF OPEN ELECTIVES OFFERED BY OTHER DEPARTMENTS TO ME (2023-24)
OPEN ELECTIVE - I

S. No	Course Code	Course Title	Offering Department	S.No	Course Code	Course Title	Offering Department
1	23ECT30	Digital Circuits	ECE	1	23ECT33	Principles of Communication Engineering	ECE
2	23ECT31	Principles of Signal Processing		2	23ECT34	Transducers and Sensors	
3	23ECT32	Micro Controllers and Applications		3	23ECT35	Electronic Measuring Instrument	
4	23CST09	Artificial Intelligence	CSE	4	23CST25	Deep Learning	CSE
5	23CST14	Cryptography & Network Security		5	23CST26	Information Security	
6	23CST35	HTML&CSS		6	23CST36	Java Script	
7	23EET25	Renewable Energy Sources	EEE	7	23EET28	Energy	EEE
8	23EET26	Concepts of Control Systems		8	23EET29	Fundamentals of Power Electronics	
9	23EET27	Concepts of Energy Auditing & Management		9	23EET30	Concepts of Power System Engineering	
10	23MUP01	Music-Vocal	BS&H	10	23MUP02	Dance	BS&H

OPEN ELECTIVE - III

S. No	Course Code	Course Title	Offering Department	S.No	Course Code	Course Title	Offering Department
1	23ECT36	Information Theory & Coding	ECE	1	23ECT39	Information IOT	ECE
2	23ECT37	Digital Image Processing		2	23ECT40	Embedded Systems	
3	23ECT38	Fundamentals of Comp, Comm & Network		3	23ECT41	Wireless sensor networks	
4	23CST13	Machine Learning	CSE	4	23CST24	Cloud Computing	CSE
5	23CST30	Cyber Security		5	23CST29	Blockchain Technologies	
6	23CST37	Reverse		6	23CST21	DevOps	
7	23EET31	Fundamentals of Electric Vehicles	EEE	7	23EET34	Concepts of Power Quality	EEE
8	23EET32	Battery Management Systems and Charging Stations		8	23EET35	Intelligent Control Systems	
9	23EET33	Concepts of Smart grid Technologies		9	23EET36	Electric Drives	
10	23EET36	ISPM Skills	BS&H	10	23EET39	Data Analytics for Decision Making	BS&H

OPEN ELECTIVE - IV

S. No	Course Code	Course Title	Offering Department
1	23ECT36	Information Theory & Coding	ECE
2	23ECT37	Digital Image Processing	
3	23ECT38	Fundamentals of Comp, Comm & Network	
4	23CST13	Machine Learning	CSE
5	23CST30	Cyber Security	
6	23CST37	Reverse	
7	23EET31	Fundamentals of Electric Vehicles	EEE
8	23EET32	Battery Management Systems and Charging Stations	
9	23EET33	Concepts of Smart grid Technologies	
10	23EET36	ISPM Skills	BS&H

C.O. (Coordinator)
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C. SURESH BOSS
 Department of Mechanical Engineering
 School of Engineering & Technology

DIRECTOR
 School of Engineering & Technology