

SCHOOL OF ENGINEERING AND TECHNOLOGY
SRI PADMAVATI MAHILA VISVAVIDYALAYAM
SCHEME OF INSTRUCTION AND EVALUATION OF M.TECH (ROBOTICS)
DEPARTMENT OF MECHANICAL ENGINEERING
R24 REGULATIONS
1 YEAR - I SEMESTER

S.No	Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation						Total Marks
				L	T	P		Internal (40 Marks)			External (60 Marks)			
								Assignment	Test	Max. Marks	Duration (Hrs)	Max. Marks	Duration (Hrs)	
1	PC	24MMET01	Advanced Mechanisms	3	0	0	3	10	2	30	3	3	60	100
2	PC	24MMET02	Fundamentals of Robotic systems	3	0	0	3	10	2	30	3	3	60	100
3	PC	24MMET03	Machine Vision Systems	3	0	0	3	10	2	30	3	3	60	100
4	PE		Professional Elective - I	3	0	0	3	10	2	30	3	3	60	100
5	PE		Professional Elective - II	3	0	0	3	10	2	30	3	3	60	100
6	BS	24MBST01	Research Methodology & IPR	3	0	0	3	10	2	30	3	3	60	100
7	HM		Audit Course	2	-	-	-							
PRACTICALS														
								Evaluation						
				Hours per Week			Internal (40 Marks)			External (60 Marks)			Total Marks	
				L			Continuous			Test			Max. Marks	
				T			Max. Marks			Duration (Hrs)			Max. Marks	
				P			Max. Marks			Duration (Hrs)			Max. Marks	
				Credits									Total Marks	
8	PC	24MMEP01	Robotics lab	0	0	4	2	20	2	20	3	3	60	100
9	PC	24MMEP02	Machine Dynamics Lab	0	0	4	2	20	2	20	3	3	60	100
Total				20	0	8	22							800

Coordinator
Co-ordinator

Bos Chairman

School of Engineering & Technology
DIRECTOR

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I YEAR – II SEMESTER

S.No	Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation						Total Marks
				L	T	P		Internal (40 Marks)			External (60 Marks)			
								Assignment Max. Marks	Test Duration (Hrs)	Max. Marks	Test Duration (Hrs)	Max. Marks	Duration (Hrs)	
1	PC	24MMET04	Advanced Finite Element Method	3	0	0	3	10	2	30	3	3	60	100
2	PC	24MMET05	Mechatronics	3	0	0	3	10	2	30	3	3	60	100
3	PE		Professional Elective - III	3	0	0	3	10	2	30	3	3	60	100
4	PE		Professional Elective - IV	3	0	0	3	10	2	30	3	3	60	100
5	OE		Open Elective - I	3	0	0	3	10	2	30	3	3	60	100
6	HM	24MHMT06	Entrepreneurship Development	3	0	0	3	10	2	30	3	3	60	100
PRACTICALS														
				Hours per Week			Credits	Evaluation						Total Marks
				L	T	P		Internal (30 Marks)			External (70 Marks)			
								Continuous Max. Marks	Test Duration (Hrs)	Max. Marks	Duration (Hrs)	Max. Marks		
7	SC	24MMES01	CNC and Metrology Lab	0	0	4	2	15	2	15	3	70	100	
8	PC	24MMEP03	Finite Element Analysis Simulation	0	0	4	2	15	2	15	3	70	100	
9	PC	24MMEC01	Term Paper cum Seminar	0	0	4	2	40	-	-	-	60	100	
Total				18	0	12	24						900	

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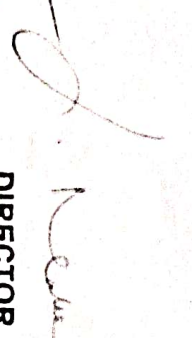
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II YEAR - I SEMESTER

S.No	Course Type	Course Code	Course Title	THEORY			PRACTICALS						Total Marks	
				Hours per Week			Credits	Evaluation			Total Marks			
				L	T	P		Internal (40 Marks)	Test	External (60 Marks)				
Max. Marks	Duration (Hrs)	Max. Marks	Duration (Hrs)	Max. Marks	Duration (Hrs)	Max. Marks								
1	PE		Professional Elective - V (Mandatory MOOC)	3	0	0	3	10	2	30	3	60	100	
2	OE		Open Elective - II / MOOC	3	0	0	3	10	2	30	3	60	100	
PRACTICALS														
S.No	Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation						Total Marks
				L	T	P		Continuous	Internal Test	External				
Max. Marks	Duration (Hrs)	Max. Marks	Duration (Hrs)	Max. Marks	Duration (Hrs)	Max. Marks	Duration (Hrs)	Max. Marks						
3	PC	24MMEV01	Comprehensive Viva	-	-	-	2	40	-	-	-	60	100	
4	PC	24MMEJ01	Dissertation Phase - I	0	0	20	10	100	-	-	-	-	100	
Total				6	0	20	18						400	


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Boss Chairman
Chairman (BOE)
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 Tirupati - 517 502

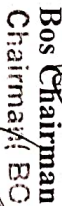

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II YEAR – II SEMESTER**

S.No	Course Type	Course Code	Course Title	Credits	Internal Evaluation			Total
					Guide	Internal Committee	External Dissertation	
1	PC	24MMEJ02	Dissertation Phase - II	16	20	20	30	100


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Chairman/ BOS
Department of Mechanical Engineering
School of Engineering & Technology
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R24 REGULATIONS
LIST OF PROFESSIONAL ELECTIVES

PROFESSIONAL ELECTIVE - I

S. No	Course Code	Course Title
1	24MMET06	Automation system design
2	24MMET07	Robotics and Control Systems
3	24MMET08	Material Handling Systems

PROFESSIONAL ELECTIVE - II

S. No	Course Code	Course Title
1	24MMET09	Rapid Prototyping and Tooling
2	24MMET10	Sensors & Instrumentation
3	24MMET11	Collaborative Robot(COBOT)

PROFESSIONAL ELECTIVE - III


S. No	Course Code	Course Title
1	24MMET12	Field and Service Robotics
2	24MMET13	Industrial Robotics and Expert Systems
3	24MMET14	Micro Electro Mechanical Systems (MEMS)

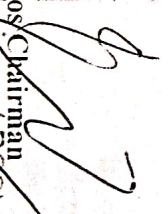
PROFESSIONAL ELECTIVE - IV

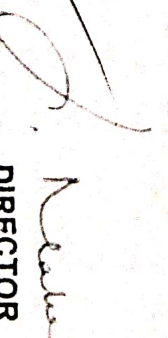
S. No	Course Code	Course Title
1	24MMET15	CNC Machines and Metrology
2	24MMET16	Lean Manufacturing
3	24MMET17	Robotics for Industrial Automation

PROFESSIONAL ELECTIVE - V

S. No	Course Code	Course Title
1	24MMEM01	Mandatory MOOCs


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 School of Engineering & Technology
 Sri Padmavati Mahila Visvaavidyalayam,
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DIRECTOR
 Department of Engineering & Technology
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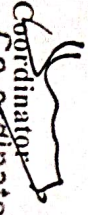
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R24 REGULATIONS
LIST OF OPEN ELECTIVES

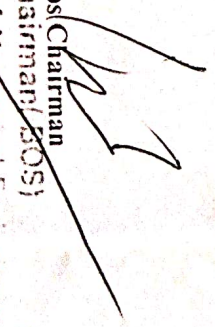
OPEN ELECTIVE - I


S.No	Course Code	Course Title	Offering Department
1	24MCST05	Prompt Engineering	CSE
2	24MECT20	Advanced Embedded systems	ECE
3	24MEET12	Neural Network & Fuzzy Logic	EEE
4	24MMET19	Industrial Robotics	ME
5	24MBST02	English for Research Paper Writing	BS&H

OPEN ELECTIVE - II

S.No	Course Code	Course Title	Offering Department
1	24MCST06	Soft Computing	CSE
2	24MECT21	Communication Networks	ECE
3	24MEET17	Solar Energy Utilization	EEE
4	24MMET20	Computer Integrated Manufacturing	ME
5	24MHMT07	Business Analytics	BS&H


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LIST OF AUDIT COURSES

S. No	Course Code	Course Title
1	24MHMT01	Disaster Management
2	24MHMT02	Value Education
3	24MHMT03	Pedagogy Studies
4	24MHMT04	Stress Management by Yoga
5	24MHMT05	Personality Development through Life Enlightenment Skills


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Department of Mechanical Engineering

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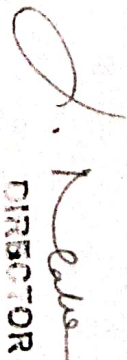

Bos Chairman
 Chairman (R24S)

Department of Mechanical Engineering

School of Engineering

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DIRECTOR

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