

R-24

M.TECH (ECE)

IN

WIRELESS COMMUNICATIONS

SCHEME

SCHOOL OF ENGINEERING AND TECHNOLOGY
SRI PADMAVATI MAHILA VISVAVIDYALAYAM
SCHEME OF INSTRUCTION AND EVALUATION OF M.TECH (WIRELESS COMMUNICATIONS)
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
R-24
EFFECTIVE FROM ACADEMIC YEAR 2024-25 ADMITTED BATCH

I YEAR I – SEMESTER

THEORY													
S. No.	Course Type	Course Code	Course Title	Hours per week			Credits	Evaluation					Total Marks
				Internal Assessment (40 Marks)				External (60 Marks)					
				Assignment	Test			External (60 Marks)					
				Max. Marks	Duration (Hrs)	Max. Marks				Duration (Hrs)	Max. Marks		
L	T	P	External (60 Marks)										
1	PC	24MECT01			Wireless Communications and Networks	2	1	0	3	10	2	30	3
2	PC	24MECT02	Ad-hoc and Wireless sensor Networks	2	1	0	3	10	2	30	3	60	100
3	PC	24MECT03	Optical Communication & Networks	3	0	0	3	10	2	30	3	60	100
4	PE		Professional Elective-I	3	0	0	3	10	2	30	3	60	100
5	PE		Professional Elective-II	3	0	0	3	10	2	30	3	60	100
6	BS	24MBST01	Research Methodology & IPR	3	0	0	3	10	2	30	3	60	100
7	HM		Audit Course	2				Satisfactory/Not- Satisfactory					
PRACTICALS													
S. No.	Course Type	Course Code	Course Title	Hours per week			Credits	Evaluation					Total Marks
				Internal Assessment (40 Marks)				External (60 Marks)					
				Continuous Evaluation	Test			External (60 Marks)					
				Max. Marks	Duration (Hrs)	Max. Marks				Duration (Hrs)	Max. Marks		
L	T	P	External (60 Marks)										
8	PC	24MECP01			Wireless Communications and Networks Lab	0	0	4	2	20	2	20	3
9	PC	24MECP02	Ad-hoc Wireless Networks Lab	0	0	4	2	20	2	20	3	60	100
Total				16	2	8	22						800

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I YEAR II – SEMESTER

THEORY													
S. No.	Course Type	Course Code	Course Title	Hours per week			Credits	Evaluation					Total Marks
								Internal Assessment (40 Marks)			External (60 Marks)		
								Assignment	Test				
				L	T	P		Max. Marks	Duration (Hrs)	Max. Marks	Duration (Hrs)	Max. Marks	
1	PC	24MECT04	Advanced Communications and Networks	2	1	0	3	10	2	30	3	60	100
2	PC	24MECT05	Wireless Sensor Networks	2	1	0	3	10	2	30	3	60	100
3	PE		Professional Elective-III	3	0	0	3	10	2	30	3	60	100
4	PE		Professional Elective-IV	3	0	0	3	10	2	30	3	60	100
5	OE		Open Elective-I	3	0	0	3	10	2	30	3	60	100
6	HM	24MHMT06	Entrepreneurship Development	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
								Internal Assessment (40 Marks)			External (60 Marks)		
								Continuous Evaluation	Test				
				L	T	P		Max. Marks	Duration (Hrs)	Max. Marks	Duration (Hrs)	Max. Marks	
7	PC	24MECP03	Advanced Communications and Networks Lab	0	0	4	2	20	2	20	3	60	100
8	PC	24MECS01	Advanced Signal Simulation Lab	0	0	4	2	20	2	20	3	60	100
9	PC	24MECC01	Term Paper cum Seminar	0	0	4	2	40	0	0	0	60	100
Total				16	2	12	24						900

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II YEAR I – SEMESTER

THEORY													
S. No.	Course Type	Course Code	Course Title	Hours per week			Credits	Evaluation					Total Marks
								Internal Assessment (40 Marks)			External (60 Marks)		
				Assignment	Test			External (60 Marks)					
				Max. Marks	Duration (Hrs)	Max. Marks				Duration (Hrs)	Max. Marks		
L	T	P											
1	PE		Professional Elective-V (Mandatory Moocs)	3	0	0	3	10	2	30	3	60	100
2	OE		Open Elective-II from the list / MOOCs	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
								Internal Assessment (40 Marks)			External (60 Marks)		
				Continuous Evaluation	Test			External (60 Marks)					
				Max. Marks	Duration (Hrs)	Max. Marks				Duration (Hrs)	Max. Marks		
L	T	P											
3	PC	24MECV01	Comprehensive Viva	0	0	0	2	40	0	0	0	60	100
4	PC	24MECJ01	Dissertation Phase-I	0	0	20	10	100	0	0	0	0	100
Total				6	0	20	18						400

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II YEAR II – SEMESTER

S.No.	Course Type	Course Code	Course Title	Credits	Internal Evaluation		External Evaluation		Total Marks
					Guide	Internal Committee	External Dissertation	Viva Voce	
1	PC	24MECJ02	Dissertation Phase-II	16	20	20	30	30	100

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Professional Elective-I

S. No.	Course Code	Course Title
1	24MECT06	TCP/IP Internetworking
2	24MECT07	Detection & Estimation Theory
3	24MECT08	Antenna Theory & Design

Professional Elective-II

S. No.	Course Code	Course Title
1	24MECT09	Coding Theory and Techniques
2	24MECT10	Mobile Computing
3	24MECT11	IOT & its Applications

Professional Elective-III

S. No.	Course Code	Course Title
1	24MECT12	Digital Image & Video Processing
2	24MECT13	Network Security & Cryptography
3	24MECT14	MIMO communications

Professional Elective-IV

S. No.	Course Code	Course Title
1	24MECT15	Cognitive Radio
2	24MECT16	Technology Developments
3	24MECT17	Advanced Digital Signal Processing

Professional Elective-V

S. No.	Course Code	Course Title
1	24MECM01	Mandatory MOOC

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M.Tech (Wireless Communications) – Open Electives

OPEN ELECTIVE - I			
S.No.	Course Code	Course Title	Offering Department
1	24MECT20	Advanced Embedded Systems	ECE
2	24MCST05	Prompt Engineering	CSE
3	24MEET12	Neural Network & Fuzzy Logic	EEE
4	24MMET19	Industrial Robotics	ME
5	24MBST02	English for Research Paper Writing	BS&H
OPEN ELECTIVE - II			
1	24MECT21	Communication Networks	ECE
2	24MCST06	Soft Computing	CSE
3	24MEET17	Solar Energy Utilization	EEE
4	24MMET20	Computer Integrated Manufacturing	ME
5	24MHMT07	Business Analytics	BS&H

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
5	24MHMT05	Personality Development through Life Enlightenment Skills