SCHOOL OF ENGINEERING AND TECHNOLOGY

SRI PADMAVATI MAHILA VISVAVIDYALAYAM

SCHEME OF INSTRUCTION AND EVALUATION OF M.TECH (AI & DS)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

R24 REGULATIONS

I YEAR – I SEMESTER

THEORY

S.No	Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
								Internal (40 Marks)			External (60 Marks)		
								Assignment	Test				
				L	T	P		Max. Marks	Duration (Hrs)	Max. Marks	Duration (Hrs)	Max. Marks	
1	PC	24MCST01	Mathematical Foundations of Data Science	3	0	0	3	10	2	30	3	60	100
2	PC	24MCST02	Advances in Artificial Intelligence	3	0	0	3	10	2	30	3	60	100
3	PC	24MCST03	Programming for Data Science	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 (40 Marks)			External (60 Marks)		
								Continuous	Test				
				L	T	P		Max. Marks	Duration (Hrs)	Max. Marks	Duration (Hrs)	Max. Marks	
8	PC	24MCSS01	AI Tools Lab	0	0	4	2	20	2	20	3	60	100
9	PC	24MCSP01	Programming for Data Science Lab	0	0	4	2	20	2	20	3	60	100
			Total	**20**	**0**	**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 (40 Marks)			External (60 Marks)		
								Assignment	Test				
				L	T	P		Max. Marks	Duration (Hrs)	Max. Marks	Duration (Hrs)	Max. Marks	
1	PC	24MCST04	Deep Learning	3	0	0	3	10	2	30	3	60	100
2	PC	24MCST05	Prompt Engineering	3	0	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 (40 Marks)			External (60 Marks)		
								Continuous	Test				
				L	T	P		Max. Marks	Duration (Hrs)	Max. Marks	Duration (Hrs)	Max. Marks	
7	PC	24MCSP02	Deep Learning Lab	0	0	4	2	20	2	20	3	60	100
8	PC	24MCSP03	Prompt Engineering Lab using Python	0	0	4	2	20	2	20	3	60	100
9	PC	24MCSC01	Term Paper cum Seminar	0	0	4	2	40	-	-	-	60	100
Total				**18**	**0**	**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 (40 Marks)			External (60 Marks)		
								Assignment	Test				
				L	T	P		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
								Internal			External		
								Continuous	Test				
				L	T	P		Max. Marks	Duration (Hrs)	Max. Marks	Duration (Hrs)	Max. Marks	
3	PC	24MCSV01	Comprehensive Viva	-	-	-	2	40	-	-	-	60	100
4	PC	24MCSJ01	Dissertation Phase - I	0	0	20	10	100	-	-	-	-	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		External Evaluation		Total
					Guide	Internal Committee	External Dissertation	Viva	
1	PC	24MCSJ02	Dissertation Phase - II	16	20	20	30	30	100

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R24 REGULATIONS
LIST OF PROFESSIONAL ELECTIVES

PROFESSIONAL ELECTIVE - I

S. No	Course Code	Course Title
1	24MCST06	Soft Computing
2	24MCST07	Speech and Natural Language Processing
3	24MCST08	Cognitive Science

PROFESSIONAL ELECTIVE - II

S. No	Course Code	Course Title
1	24MCST09	Predictive Analytics and Data Mining
2	24MCST10	Applied Machine Learning
3	24MCST11	Building Systems using the Agentic Framework

PROFESSIONAL ELECTIVE - III

S. No	Course Code	Course Title
1	24MCST12	Computer Vision
2	24MCST13	Medical Image Processing
3	24MCST14	Reinforcement Learning

PROFESSIONAL ELECTIVE - IV

S. No	Course Code	Course Title
1	24MCST15	Bio-Inspired Artificial Intelligence
2	24MCST16	Edge Intelligence
3	24MCST17	Augmented Reality and Virtual Reality

PROFESSIONAL ELECTIVE - V

S. No	Course Code	Course Title
1	24MCSM01	Mandatory MOOC

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LIST OF OPEN ELECTIVES

OPEN ELECTIVE - I

S. No	Course Code	Course Title	Offering
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
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
3	24MHMT02	Value Education
5	24MHMT03	Pedagogy Studies
6	24MHMT04	Stress Management
7	24MHMT05	Personality Development through Life Enlightenment Skills

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