SRM
UNIVERSITY *AP*
Andhra Pradesh

SCHOOL OF ENGINEERING AND SCIENCES

M.Tech in MMT

2023-25 Batch

Semester Wise Course Credit Distribution Under Various Categories

Category	S1	S2	S3	S4	Total	%age
Value Added Courses (UG Common) (VAC)	02	-	-	-	02	2.5%
Skill Enhancement Courses (SEC)	2	2	-	-	04	5%
Multidisciplinary / Interdisciplinary / Foundation Core (FIC)	3	3	-	-	06	7.5%
Major Core (CC) + Specialization (SE) + Core Elective (CE)	16	20	-	-	36	45%
Research / Design / Industrial Practice / Project (RDIP)	-	-	17	15	32	40%
Grand Total			17	15	**80**	**100%**

VAC- Community Engagement & Social Responsibility
SEC-Problem Solving or Entrepreneurial mindset or Design Thinking
FIC- Mathematics or AIML or Project Management

M.Tech in MMT

Semester-1						
Category	**Sub-Category**	**Course Title**	**L**	**T/D**	**P/Pr**	**Credits**
VAC	University AEC	Community Engagement & Social Responsibility	-	-	1	01*
VAC	University AEC	Research Seminar	-	-	1	01*
SEC1	SEC	Design Thinking	1	-	1	02
CC	CORE	Industrial Surface Engineering	3	0	1	4
CC	CORE	Sustainable Manufacturing	3	0	1	4
CC	CORE	Materials for Manufacturing	3	0	1	4
CC	CORE	Production and operation management	3	0	0	3
Multidisciplinary	School (Engg./Sc.)	Advanced Numerical Techniques	2	1	1	4
Semester Total						**21**
Semester-2						
Category	**Sub-Category**	**Course Title**	**L**	**T/D**	**P/Pr**	**Credits**
VAC	University AEC	Community Engagement & Social Responsibility	-	-	1	1
VAC	University AEC	Research Seminar	-	-	1	1
SEC2	SEC	Entrepreneurial mindset	1	-	1	2
CE	Core Elective	Industry - Core Elective	3	0	1	4
CE	Core Elective	Industry - Core Elective	3	0	1	4
CC	Core	Advanced Materials Processing Technologies	3	0	1	4
CC	Core	Additive Manufacturing	3	0	1	4
CC	Core	Material Characterization Processes	3	0	1	4
Multidisciplinary	University (PSB)	Project Management	-	2	1	3
Semester Total						**27**

Semester-3						
Category	**Sub-Category**	**Course Title**	**L**	**T/D**	**P/Pr**	**Credits**
RDIP	Research / Design / Industrial Practice / Project	Thesis (Project)	-	-	14	14
RDIP	Research / Design / Industrial Practice / Project	Industrial Practice/Internship			3	3
Semester Total						**17**
Semester-4						
Category	**Sub-Category**	**Course Title**	**L**	**T/D**	**P/Pr**	**Credits**
RDIP	Internship / Research / Thesis	Thesis	-	-	15	15
Semester Total						**15**

List of Core Electives

1	Analysis of machining processes
2	Lean manufacturing
3	Reliability engineering
4	Tool design
5	Digital Manufacturing
6	Advanced Metal Forming
7	Lasers in Manufacturing
8	Precision and Micro Manufacturing
9	Quality engineering
10	Finite element methods for Manufacturing
11	Inspection and Testing in Manufacturing
12	Flexible Manufacturing System
13	Product Design and Manufacturing
14	Biomaterials Processing and Applications
15	Powder Materials and Processing
16	Design and Analysis of Experiments
17	Robotics and AI/ML for Manufacturing
18	Manufacturing Automation and Industry 4.0