



SRM
UNIVERSITY AP
—————Andhra Pradesh

SCHOOL OF ENGINEERING AND SCIENCES

M.Tech in IoT
2023-25 Batch

Semester Wise Course Credit Distribution Under Various Categories

Category	S1	S2	S3	S4	Total	%age
Value Added Courses (UG Common) (VAC)	2	-	-	-	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	23	25	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 IoT

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	Embedded Programming	3	-	1	4
CC	CORE	Embedded Networking	3	-	1	4
CC	CORE	Smart Sensors and Actuators	3	-	1	4
CC	CORE	Computer Network and Internet Protocol	3	-	1	4
Multidisciplinary	School (Engg./Sc.)	AI/ML Techniques	2	-	1	3
Semester Total						21
Semester-2						
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*
SEC2	SEC	Entrepreneurial mindset	1	-	1	2
CE	Core Elective	Industry - Core Elective	3	-	1	4
CE	Core Elective	Industry - Core Elective	3	-	1	4
CC	Core	IoT Architecture and Protocols	3	-	1	4
CC	Core	SOC Design for IoT	3	-	1	4
CC	Core	Wireless Sensor Networks	3	-	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			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 Designing Embedded systems with UML
- 2 Distributed Systems and Cloud Computing
- 3 CMOS Digital IC Design
- 4 CMOS Analog and Mixed Signal IC Design
- 5 VLSI Accelerators for AI edge Computing Devices
- 6 RFIC Design
- 7 CMOS Circuit Design for 5G
- 8 Advanced Data Science Topics
- 9 Hardware/Software Co-Design
- 10 Wireless Access Technologies
- 11 Security applications in networking and distributed systems
- 12 Hardware Security for IoT
- 13 Machine Learning for Communication systems
- 14 Mobile Advanced Networks
- 15 Object-Oriented Programming in C++ and Java
- 16 Security applications in networking and distributed systems
- 17 Semantic Web and Information Extraction technologies
- 18 Advanced Signal Processing and Data Analytics
- 19 Computational Graph Theory
- 21 Network Security
- 22 Signal Processing and Computer Vision
- 23 VLSI Technology
- 24 Smart grid communication
- 25 Real Time Operating Systems
- 26 Embedded Linux
- 27 VLSI Testing and Verification
- 28 Deep Learning for IoT