

Department of Electronics and Communication Engineering

M.Tech. Embedded Systems and IoT Curriculum

*(Applicable to the students admitted from AY: 2024
onwards)*



**School of Engineering and Sciences
SRM University AP, Andhra
Pradesh**

ABBREVIATIONS

AEC	Ability Enhancement Courses
VAC	Value Added Courses
SEC	Skill Enhancement Courses
FIC	Foundation & Interdisciplinary Courses
OE	Open Elective
RDIP	Research / Design / Industrial Practice / Project / Thesis / Internship
CE	Core Elective
CC	Core Course
SE	Stream Elective
TE	Technical Elective

SEMESTER - I							
S. No	Category	Sub-Category	Course Title	L	T/D	P/Pr	C
1	AEC	AEC	Research Seminar	0	0	1	1*
2	VAC	U VAC	Community Engagement and Social Responsibility	0	0	1	1*
3	SEC	S SEC	Design Thinking	1	0	1	2
4	FIC	D FIC	AI/ML Techniques	2	0	1	3
5	Core	CC	Embedded Programming	3	0	1	4
6	Core	CC	Embedded Networking	3	0	1	4
7	Core	CC	Smart Sensors and Actuators	3	0	1	4
8	Core	CC	Computer Network and Internet Protocol	3	0	1	4
Semester Total				15	0	6	21

SEMESTER - II							
S. No	Category	Sub-Category	Course Title	L	T/D	P/Pr	C
1	VAC	U VAC	Community Engagement and Social Responsibility	0	0	1	1
2	AEC	AEC	Research Seminar - II	0	0	1	1
3	SEC	SEC	Entrepreneurial Mindset	1	0	1	2
4	Core	CC	IoT Architecture and Protocols	3	0	1	4
5	Core	CC	SOC Design for IoT	3	0	1	4
6	Core	CC	Wireless Sensor Networks & IoT	3	0	1	4
7	Elective	CE	Core Elective	3	0	1	4
8	Elective	CE	Core Elective	3	0	1	4
9	RDIP	RDIP	Project Management	0	0	3	3
Semester Total				16	0	11	27

SEMESTER - III							
S. No	Category	Sub-Category	Course Title	L	T/D	P/Pr	C
1	RDIP	RDIP	Thesis - I	0	0	14	14
2	RDIP	RDIP	Industrial Practice	0	0	3	3
Semester Total				0	0	17	17

SEMESTER - IV							
S. No	Category	Sub-Category	Course Title	L	T/D	P/Pr	C
1	RDIP	RDIP	Thesis - II	0	0	15	15
Semester Total				0	0	15	15

Core Electives							
S. No	Category		Course Title	L	T/D	P/Pr	C
1	CE	CE	Designing Embedded systems with UML	3	1	0	4
2	CE	CE	Hardware Security for IoT	3	1	0	4
3	CE	CE	Deep Learning for IoT	3	0	1	4
4	CE	CE	Hardware Accelerators for IoT edge computing	3	0	1	4
5	CE	CE	FPGA Design for Embedded systems	3	0	1	4