

Department of Mechanical Engineering

M.Tech. Thermal Engineering Curriculum

(Applicable to the students admitted from AY: 2023 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	VAC	U VAC	Community Engagement and Social Responsibility	0	0	1	1*
2	VAC	S AEC	Research Seminar - I	0	0	1	1*
3	SEC	S SEC	Design Thinking	1	0	1	2
4	FIC	D FIC	Advanced Numerical Techniques	2	1	1	4
5	Core	CC	Practical CFD and HT	2	1	1	4
6	Core	CC	Thermal Measurements in Industries	2	1	0	3
7	Core	CC	Advanced Fluid Dynamics	2	1	1	4
8	Core	CC	Industrial Heat and Mass Transfer	2	1	1	4
Semester Total				11	5	5	21

SEMESTER - II

S. No	Category	Sub-Category	Course Title	L	T/D	P/Pr	C
1	AEC	S AEC	Research Seminar	0	0	1	1
2	SEC	S SEC	Entrepreneurial Mindset	1	0	1	2
3	CC	Core	Thermal Design of Electronics Equipment	2	0	1	3
4	CC	Core	Turbulence and Shear flows	3	0	1	4
5	CC	Core	Computational Techniques for Electronic Cooling	1	1	2	4
6	CE	CE	Core Elective	2	1	1	4
7	CE	CE	Core Elective	2	0	1	4
8	RDIP	RDIP	Project Management	0	0	3	3
Semester Total				11	2	11	25

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

Core Electives							
S. No	Category	Sub-Category	Course Title	L	T/D	P/P r	C
1	Elective	CE	Introduction to Multiphase flows	2	1	1	4
2	Elective	CE	Design of Heat Exchange equipment	2	1	1	4
3	Elective	CE	Turbulence and Shear Flows	2	1	1	4
4	Elective	CE	Transport in Porous Media	2	1	1	4