

Sch-19

347101

I.M.TECH. THERMAL ENGINEERING

SEMESTER - I

S. No.	Sub. Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	ME85001	Advanced Thermodynamics	3	-	-	3	-	70	30	-	-	100
2	ME85002	Advanced Fluid Dynamics	3	-	-	3	-	70	30	-	-	100
3	ME85003	Advanced Heat Transfer	3	-	-	3	-	70	30	-	-	100
4		Elective-I	3	-	-	3	-	70	30	-	-	100
5		Elective-II	3	-	-	3	-	70	30	-	-	100
6	ME85451	Lab-I (Advanced Fluid Dynamics)	-	-	4	-	2	0	0	40	60	100
7	ME85452	Lab-II (Heat Transfer and Thermodynamics)	-	-	4	-	2	-	-	40	60	100
9	ME85500	Comprehensive Viva	-	-	-	-	-	-	-	-	Grade	Grade
Total			15	0	8	15	4	350	150	80	120	700

347102

SEMESTER - II

S. No.	Sub. Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	ME85501	Energy conservation and Management	3	-	-	3	-	70	30	-	-	100
2	ME85502	Computational Fluid Dynamics	3	-	-	3	-	70	30	-	-	100
3	ME85503	Design of Thermal System	3	-	-	3	-	70	30	-	-	100
4		Elective-III	3	-	-	3	-	70	30	-	-	100
5		Elective-IV	3	-	-	3	-	70	30	-	-	100
6	ME85851	Lab-I (Energy conservation and Thermal System)	-	-	4	-	2	-	-	40	60	100
7	ME85852	Lab-II (Computational Fluid Dynamics)	-	-	4	-	2	-	-	40	60	100
8	ME85881	Seminar-I	-	-	2	-	1	-	-	50	-	50
9	ME85900	Comprehensive Viva	-	-	-	0	0	-	-	-	Grade	Grade
Total			15	0	10	15	5	350	150	130	120	750

I.M.TECH. THERMAL ENGINEERING
List of Elective

Elective - I		Semester I	
S.No	Sub. Code	Subject	
1	MA85201 ✓	Advanced Mathematical Methods in Engineering ✓	→ MA85201
2		Finite Element Analysis	ME85202
3		Advance Engineering Materials	ME85203
4		Industrial Management	ME85204
5		Advanced Manufacturing Techniques	ME85205
Elective - II		Semester I	
1	MERS302 ✓	Design of Solar and Wind System ✓	
2	ME85301 ✓	Design of Heat Exchanger	
3		Design of Manufacturing and Assembly	ME85303
4		Modelling of IC Engines	ME85304
5		Automotive Technologies	ME85305
Elective - III		Semester II	
1		Air Conditioning System Design	ME85701
2		Gas Turbines	ME85702
3		Refrigeration and Cryogenics	ME85703
4	ME85704 ✓	Steam Engineering	→ ME85704 ✓
5		Mechatronics and Automation	ME85705
Elective -IV		Semester II	
1		Operations Research	ME85751
2		Waste to Energy	ME85752
3		Composite Materials	ME85753
4		Optimisation Techniques in Design	ME85754
5	ME85755 ✓	Lubrication Theory and Practice	ME85755