



Shri Vaishnav Vidyapeeth Vishwavidyalaya
Shri Vaishnav Institute of Technology and Science
Choice Based Credit System (CBCS) Scheme in the light of NEP-2020
M.Tech In Thermal and Design Engineering

SEMESTER - I (2025-2027)

Sr. No.	COURSE CODE	COURSE NAME	TEACHING SCHEME/WEEK			CREDITS	EXAMINATION SCHEME					TOTAL MARKS
			L	T	P		THEORY			PRACTICAL		
							End Sem University Exam (60%)	Two Term Exam (20%)	Teachers Assessment* (20%)	End Sem University Exam (60%)	Teachers Assessment* (40%)	
1	MTME114	Energy Systems and Management	2	1	0	3	60	20	20	0	0	100
2	MTME124	Advanced Refrigeration and Air-Conditioning	2	1	0	3	60	20	20	0	0	100
3	MTME102	Advanced Machine Design	2	0	2	3	60	20	20	30	20	150
4		Elective I	2	1	0	3	60	20	20	0	0	100
5	MBAI301C	Advanced Human Values and Professional Ethics	3	0	0	3	60	20	20	0	0	100
6	MTME106	Simulation Modeling Lab (FEA, FEM and CFD)	0	0	4	2	0	0	0	30	20	50
7	MTME108	Comprehensive Viva I	0	0	2	1	0	0	0	30	20	50
TOTAL			11	3	8	18	300	100	100	90	60	650

Legends: L - Lecture ; T - Tutorial/Teacher Guided Student Activity ; P - Practical ;

*Teacher Assessment shall be based on following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

List of Elective I		
1	MTIE111	Ergonomic and Industrial Safety
2	MTIE231	Reliability Analysis and Prediction
3	MTME134	Advanced Thermodynamics and Combustion Engineering

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