



**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 ( 2021-2023)**

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	4	0	0	4	60	20	20	0	0	100
6	MTME106	Simulation Modeling Lab (FEA, FEM and CFD)	0	0	2	1	0	0	0	30	20	50
7	MTME108	Comprehensive Viva I	0	0	2	1	0	0	0	30	20	50
8	-	Generic Elective I	3	0	0	3	60	20	20	0	0	100
<b>TOTAL</b>			<b>15</b>	<b>3</b>	<b>6</b>	<b>21</b>	<b>360</b>	<b>120</b>	<b>120</b>	<b>90</b>	<b>60</b>	<b>750</b>

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

Chairperson  
Board of Studies  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya, Indore

Chairperson  
Faculty of Studies  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya, Indore

Controller of Examination  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya, Indore

Joint Registrar  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya, Indore

Vice Chancellor  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya, Indore