

ADIT

CVM University

Programme:  
M.E. in Thermal Engineering

Semester : I  
Course Structure



**CVM**  
**UNIVERSITY**

(Established under Gujarat Private Universities  
(Second Amendment) Act : 2019 Gujarat Act No. 20 of 2019)

Course	Course Code	Course Title	Per Week			Credits	Exam Duration in Hours		Component of Marks				
			L	T	P		Theory	Pract.	Theory		Practical		Total/Passing
									External Passing	Internal / Passing	Internal / Passing	External / Passing	
Core I	102440101	Advanced Heat Transfer	3	0	2	4	2	2	60/24	40/16	20/08	30/12	150/60
Core II	102440102	Advanced Thermodynamics	3	2	0	4	2	2	60/24	40/16	20/08	30/12	150/60
MLC*	102300111	Research Methodology and IPR	2	0	0	2	NA	NA	0/0	0/0	40/16	60/24	100/50
Programme Elective I (Any One)	102440103	Gas Turbines and Jet Propulsion	3	0	2	4	2	2	60/24	40/16	20/08	30/12	150/60
	102440104	Hydrogen Energy and Fuel Cell											
	102440105	Waste Management And Energy Recovery											
Programme Elective II (Any One)	102440106	Advance Thermal Power plant	3	0	2	4	2	2	60/24	40/16	20/08	30/12	150/60
	102440107	Energy Storage Systems											
	102440108	Fuels, Combustion & Environment											
Audit 1 (Any One)	102301201	Constitution of India	2	0	0	0	2	NA	50/20	0/0	0/0	0/0	50/20
	102301202	Disaster Management											
	102301203	English for Research Paper Writing											
	102301204	Essential soft skills and Human Values											
	102301205	Pedagogy Studies											
	102301206	Personality Development through Life Enlightenment Skills											
	102301207	Sanskrit for Technical Knowledge											
	102301208	Stress Management by Yoga											
102301209	Value Education												
			16	2	6	18	10	8					

<b>CVM University</b>
<b>Programme: M.E. in Thermal Engineering</b>
<b>Semester :II Course Structure</b>



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Course	Course Code	Course Title	Per Week			Credits	Exam Duration in Hours		Component of Marks				Total/ Passing
			L	T	P		Theory	Pract.	Theory		Practical		
									External / Passing	Internal / Passing	Internal / Passing	External / Passing	
<b>Core III</b>	<b>102440201</b>	Advance Fluid Mechanics	3	0	2	4	2	2	60/24	40/16	20/08	30/12	150/60
<b>Core IV</b>	<b>102440202</b>	Advance Refrigeration and Air conditioning	3	0	2	4	2	2	60/24	40/16	20/08	30/12	150/60
<b>Core V</b>	<b>102440203</b>	Experimental Techniques and Instrumentations for Engineers	3	0	2	4	2	2	60/24	40/16	20/08	30/12	150/60
<b>Programme Elective III (Any One)</b>	<b>102440204</b>	Advance Gas Dynamics	3	0	2	4	2	2	60/24	40/16	20/08	30/12	150/60
	<b>102440205</b>	Cryogenic Engineering											
	<b>102440207</b>	Thermal Systems Design											
<b>Programme Elective IV (Any One)</b>	<b>102440208</b>	Advance Internal Combustion Engines	3	0	2	4	2	2	60/24	40/16	20/08	30/12	150/60
	<b>102330206</b>	Computational Fluid Dynamics											
	<b>102440209</b>	Design of Heat Exchangers											
<b>Core</b>	<b>102300112</b>	Seminar	0	0	4	2	NA	NA	0/0	0/0	100/40	0/0	100/40
<b>#Audit 2 (Any One)</b>	<b>102301201</b>	Constitution of India	2	0	0	0	2	NA	50/20	0/0	0/0	0/0	50/20
	<b>102301202</b>	Disaster Management											
	<b>102301203</b>	English for Research Paper Writing											
	<b>102301204</b>	Essential soft skills and Human Values											
	<b>102301205</b>	Pedagogy Studies											
	<b>102301206</b>	Personality Development through Life Enlightenment Skills											
	<b>102301207</b>	Sanskrit for Technical Knowledge											
	<b>102301208</b>	Stress Management by Yoga											
	<b>102301209</b>	Value Education											
			<b>17</b>	<b>0</b>	<b>14</b>	<b>22</b>	<b>12</b>	<b>10</b>					

# Course opted in Audit 1 will not be offered in Audit 2.

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			L	T	P		Theory	Pract.	Theory		Practical		Total/ Passing
									External / Passing	Internal / Passing	Internal / Passing	External / Passing	
Program Elective I (Any One)	102440303	Solar Engineering											
	102440302	Project Engineering and Management	3	0	2	4	2	2	60/24	40/16	20/08	30/12	150/60
	102440301	Energy System, Modelling and Analysis											
Open Elective II (Any One)	102300311	Business Management											
	102350312	Energy Audit and Management	3	2	0	4	2	2	60/24	40/16	20/08	30/12	150/60
	102330313	Waste to Energy											
Dissertation	102300301	Dissertation Phase –I	0	16	0	8	0	2	NA	NA	20/8	80/32	100/40
			6	18	2	16							

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			L	T	P		Theory	Pract.	Theory		Practical		Total/ Passing
									External / Passing	Internal / Passing	Internal / Passing	External / Passing	
Dissertation Phase-II	102300401	Dissertation Phase-II	0	32	0	16	2	2	NA	NA	40/16	160/64	200/80
			0	32	0	16							