

ADIT
CVM University
Programme: M.Tech. in Renewable Energy
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				Total/ Passing
			L	T	P		Theory	Pract.	Theory		Practical		
									External / Passing	Internal / Passing	Internal / Passing	External / Passing	
Core I	102450101	Advanced Thermodynamics and Heat transfer	3	0	2	4	2	2	60/24	40/16	20/08	30/12	150/60
Core II	102450102	Solar energy	3	0	2	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	100/40
Program Elective I (Any One)	102450104	Distributed Generation and Microgrids	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											
Program Elective II (Any One)	102450106	Energy Forecasting, Modeling and Project Management	3	0	2	4	2	2	60/24	40/16	20/08	30/12	150/60
	102450107	Materials For Solar Devices											
	102450108	Optimization Techniques											
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	0	8	18	10	8					

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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 III	102450201	Biofuel & Bio-energy systems	3	0	2	4	2	2	60/24	40/16	20/08	30/12	150/60
Core IV	102450202	Solar photovoltaic power plants: Planning, Design and Balance of systems	3	0	2	4	2	2	60/24	40/16	20/08	30/12	150/60
Core V	102450203	Wind Energy Systems	3	0	2	4	2	2	60/24	40/16	20/08	30/12	150/60
Program	102440209	Design of Heat Exchangers	3	0	2	4	2	2	60/24	40/16	20/08	30/12	150/60
Elective III (Any One)	102450204	Green Buildings											
	102440207	Thermal System Design											
Program	102330206	Computational Fluid Dynamics	3	0	2	4	2	2	60/24	40/16	20/08	30/12	150/60
Elective IV (Any One)	102450207	Instrumentation For Energy Systems											
	102450208	Ocean Energy and Tidal Energy											
Core	102300112	Seminar	0	0	4	2	NA	NA	0/0	0/0	100/40	0/0	100/40
#Audit 2 (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												
			17	0	14	22	12	10					

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

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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	
Program Elective I (Any One)	102450301	Advances in Biomass Gasification	3	0	2	4	2	2	60/24	40/16	20/08	30/12	150/60
	102450302	Energy Economics, Policy and Regulation Act											
Open Elective II (Any One)	102300311	Business Management	3	2	0	4	2	2	60/24	40/16	20/08	30/12	150/60
	102330312	Industrial Safety											
	102330311	Composite Material											
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							