

ADIT

CVM University

Programme:
M.E. in CAD/CAM

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	102320101	Advanced Machine Design	3	0	2	4	3	2	60/24	40/16	20/08	30/12	150/60
Core II	102320102	Computer Aided Design	3	0	2	4	3	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	20/08	80/32	100/40
Programme Elective I (Any One)	102320103	Design for Manufacture and Assembly	3	2	0	4	3	2	60/24	40/16	20/08	30/12	150/60
	102320104	Optimization Methods											
Programme Elective II (Any One)	102320105	Advanced Metrology and Experimental Techniques	3	0	2	4	3	2	60/24	40/16	20/08	30/12	150/60
	102320106	Mechanical Vibration											
	102320107	Oil Hydraulics and Pneumatics											
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	14	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	102320201	Advanced Material Processing Techniques	3	2	0	4	3	2	60/24	40/16	20/08	30/12	150/60
Core IV	102320202	Computer Aided Manufacturing	3	0	2	4	3	2	60/24	40/16	20/08	30/12	150/60
Core V	102320203	Finite Element Analysis	3	0	2	4	3	2	60/24	40/16	20/08	30/12	150/60
Programme Elective III (Any One)	102320204	Artificial Intelligence	3	0	2	4	3	2	60/24	40/16	20/08	30/12	150/60
	102320205	Computer Aided production Management											
	102320206	Computer Integrated Manufacturing											
Programme Elective IV (Any One)	102320207	Additive Manufacturing & Tooling	3	0	2	4	3	2	60/24	40/16	20/08	30/12	150/60
	102320208	Product Design and Development											
	102320209	Robotics											
Core	102300112	Seminar	0	0	4	2	NA	NA	0/0	100/40	0/0	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	2	12	22	17	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)	102320301	Industrial Safety and Planning	3	0	2	4	2	2	60/24	40/16	20/08	30/12	150/60
	102320302	Rotor Dynamics											
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											
	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							