



ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

M.Tech.(CAD/CAM) Scheme of Examination & Syllabus 2024-25

MECHANICAL ENGINEERING

Scheme of Examination - FIRST SEMESTER

Sr No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Continual Assessment	End Sem Examination	Total
1	CAD101T	Computer Integrated Manufacturing	3	-	-	3	30	70	100
2	CAD101P	Computer Integrated Manufacturing Lab	-	-	4	2	50	50	100
3	CAD102T	Computer Aided Design	3	-	-	3	30	70	100
4	CAD102P	Computer Aided Design Lab	-	-	4	2	50	50	100
5	CAD103T	Industrial Robotics & Machine Vision	3	-	-	3	30	70	100
6	CAD104T	Elective-I	3	-	-	3	30	70	100
7	CAD105T	Elective-II	3	-	-	3	30	70	100
8	CAD106P	Technical Seminar & Research paper Writing/ IPR/ Quantative Methods/ Design of Experiments	-	-	2	-	-	-	-
Total			15	0	10	19	250	450	700

CAD104T	Elective - I	CAD105T	Elective - II
CAD104T(i)	Design of Hydraulic and Pneumatic Systems	CAD105T (i)	Advance Engineering Materials
CAD104T(ii)	Machine Fault diagnosis	CAD105T (ii)	Reliability Engineering
CAD104T(iii)	Tribology Design	CAD105T (iii)	Artificial Intelligence

		July 2024	1	Applicable for 2024-25
Chairman - BoS	Dean – Academics	Date of Release	Version	



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MECHANICAL ENGINEERING

Scheme of Examination - SECOND SEMESTER

Sr No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Continual Assessment	End Sem Examination	Total
1	CAD201T	Advance FEM	3	-	-	3	30	70	100
2	CAD201P	Advance FEM Lab	-	-	4	2	50	50	100
3	CAD202T	Computer Aided Tool Design	3	-	-	3	30	70	100
4	CAD202P	Computer Aided Tool Design Lab	-	-	4	2	50	50	100
5	CAD203T	Product Design and Developmet	3	-	-	3	30	70	100
6	CAD204T	Elective-III	3	-	-	3	30	70	100
7	CAD205T	Elective-IV	3	-	-	3	30	70	100
8	CAD206P	Technical Seminar & Research paper Writing/ IPR/ Quantative Methods/ Design of Experiments/	-	-	2	-	-	-	-
Total			15	0	10	19	250	450	700

CAD204T	Elective - III	CAD205T	Elective - IV
CAD204T(i)	Design of Material Handling Systems	CAD205T(i)	Manufacturing system Integration and management
CAD204T(ii)	Design for Manufacturing and Assembly	CAD205T(ii)	Modelling and Simulation
CAD204T(iii)	Additive Manufacturing	CAD205T(iii)	Agile Manufacturing

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MECHANICAL ENGINEERING

Scheme of Examination - THIRD SEMESTER

Sr No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Continual Assessment	End Sem Examination	Total
1	CAD302T	Elective-V	3	-	-	3	30	70	100
2	CAD303T	Open Elective	3	-	-	3	30	70	100
3	CAD301P	Dissertation Phase-I	-	-	20	10	50	50	100
Total			6	0	20	16	110	190	300

CAD302T	Elective - V
CAD302T (i)	Supply Chain Management
CAD302T (ii)	Advance Mechanism Design

CAD303T	Open Elective
CAD303T(i)	Industrial Safety
CAD303T (ii)	Operations Research

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MECHANICAL ENGINEERING

Scheme of Examination - FOURTH SEMESTER

Sr No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Continual Assessment	End Sem Examination	Total
1	CAD401P	Dissertation Phase-II	-	-	32	16	200	200	400
Total			0	0	32	16	200	200	400

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Chairman - BoS	Dean – Academics	Date of Release	Version	