ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR



(An autonomous institution affiliated to RashtrasantTukadojiMaharaj Nagpur University)

B. Tech. Scheme of Examination & Syllabus 2022-23

MECHANICAL ENGINEERING

V Semester

Sr No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks			
	Code		L	Т	Р		Continual Assessment	End Sem Examination	Total	
1.	22ME501T	Heat Transfer	3	1	-	3	30	70	100	
2.	22ME501P	Heat Transfer Lab	-	-	2	1	25 25		50	
3.	22ME502T	Energy Conversion-I	3	1	-	3	30 70		100	
4.	22ME503T	Design of Machine Elements	3	1	-	3	30 70		100	
5.	22ME503P	Design of Machine Elements Lab	-	1	2	1	25 25		50	
6.	22ME504T	Operation Research and Industrial Engineering	3	-	-	3	30 70		100	
7.	22ME505T	Professional Elective - I	3	1	-	3	30	70	100	
8.	22ME561O	Open Elective - I	3	-	-	3	30 70		100	
9.	22H104	Foundational Humanities Elective	2	-	-	-	Audit			
10.	22AS502T	English for Engineers	2	-	-	2	15 35		50	
11.	22ME506P	Technical Skill Development II**	-	-	2	1	50 -		50	
12.	12. 22ME507P Career Development - III*		2	-	-	0		Audit		
	Total				6	23	295	505	800	

^{*} Career Development (Interpersonal Skills, Aptitude and logical thinking)

** Technical Skill Development – Desirable to have industry skill enhancement

22ME561O	Open Elective - I	22H104	Foundational Humanities Elective
22ME561O	22ME5610 OE-I Automobile Engineering		Development of Societies
		22H104	Philosophy

ME505T	Professional Elective - I				
22ME505T(i)	PE-I Refrigeration and Air Conditioning				
22ME505T(ii)	PE-I Production and Operation Management				
22ME505T(iii)	PE-I Design Thinking				

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



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B. Tech. Scheme of Examination & Syllabus 2022-23

MECHANICAL ENGINEERING

VI Semester

Sr	Course		Hours per Week			Credits	Maximum Marks			
No	Code	Course Title	L	Т	Р		Continual Assessment	End Sem Examination	Total	
1	22ME601T	Energy Conversion-II	3	1	-	4	30	70	100	
2	22ME601P	Thermal Engineering Lab	-	-	2	1	25 25		50	
3	22ME602T	Professional Elective - II	3	-	-	3	30	70	100	
4	22ME603T	Professional Elective - III	3	-	-	3	30	70	100	
5	22ME604T	Professional Elective - IV	3	-	-	3	30	70	100	
6	22ME661O	Open Elective-II	3	-	-	3	30	70	100	
7	22AS501T	Economics and Management	4	-	-	4	30	70	100	
8	22ME606P	Project - I	-	-	2	1	50 -		50	
9	22ME607T	Career Development-IV*	2	-	-	0	Audit			
10	22ME608P	Capstone Course – I **	-	-	2	1	25 25		50	
	Total			1	6	23	280	470	750	

^{*} Career Development (Interpersonal Skills, Aptitude and logical thinking)

^{**} Capstone Course – I (Comprehensive knowledge gained in Mechanical Engineering)

22ME661O	Open Elective - II								
22ME661O	Entrepreneurship Dev	relopment							
ME602T	Professional Elect	tive - II	ME603T	Profession Elective		ME60	4T	Professional Elective -IV	
22ME602T(i)	Heating Ventilation and Air Conditioning systems Logistics and Supply Chain Management		22ME603T(i)	and Cool	Passive Heating and Cooling of Buildings		604T(i)	Energy Conservation in HVACR System and Components	
22ME602T(ii)			22ME603T(ii)	Sustainable Production System		22ME604T(ii)		Advances in Project and Quality Management	
22ME602T(iii	22ME602T(iii) Mechanical Vibrations		22ME603T(iii)	Compute Design	Computer Aided 22MI		604T(iii)	Design of Mechanical Pov Transmission	wer
22ME602T(iv	22ME602T(iv) Applied Industrial IoT		22ME603T(iv)	Piping Engineer	ing	22ME604T(iv)		system Fire and Life sa in Infrastructure	
Bip.		wall	sande	July 2024		1		Applicable 2024-25	
Chairman - BoS De		Dean – Ac	n – Academics		Date of Release		Version		
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