



**Scheme of Examination of Bachelor of Technology (Mechanical Engineering)****Semester Pattern****VII Semester B. Tech. Mechanical Engineering**

Sr No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		Total
			L	T	P		Continual Assessment	End Sem Examination	
1	21ME701T	Automation in Production	3	-	-	3	30	70	100
2	21ME701P	Automation in Production Lab	-	-	2	1	25	25	50
3	21ME702T	Professional Elective - V	3	-	-	3	30	70	100
4	21ME702P	Professional Elective - V Lab	-	-	2	1	25	25	50
5	21ME703T	Professional Elective - VI	3	-	-	3	30	70	100
6	21ME761O	Open Elective - III	3	-	-	3	30	70	100
7	21ME704P	Project - II	-	-	8	4	75	75	150
8	21ME705P	Summer / Winter Internship *	-	-	-	2	50	-	50
9	21ME706P	Capstone Course – II **			2	1	50	-	50
Total			12	-	14	21	345	405	750

* Summer / Winter Internship (Evaluation of Four weeks Internship Completion till 6th Semester)

** Capstone Course – II (Comprehensive knowledge gained in Mechanical Engineering)

21ME761O	Open Elective - III
21ME761O	OE- III Renewable Energy Resources



		July 2024	1.0	Applicable for 2024-25
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21ME702T	Professional Elective - V
21ME702T(i)	PE-V HVAC System Design Using BIM Software
21ME702T(ii)	PE-V Industrial Robotics
21ME702T(iii)	PE-V Finite Element Method

21ME702P	Professional Elective - V Lab
21ME702P(i)	PE-V HVAC System Design Using BIM Software Lab
21ME702P(ii)	PE-V Industrial Robotics Lab
21ME702P(iii)	PE-V Finite Element Method Lab

21ME703T	Professional Elective - VI
21ME703T(i)	PE-VI Heating Ventilation and Air Conditioning Systems
21ME703T(ii)	PE-VI Smart Manufacturing and Production System
21ME703T(iii)	PE-VI Tool Design

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ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

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

B. Tech. Scheme of Examination & Syllabus 2021-22**Scheme of Examination of Bachelor of Technology (Mechanical Engineering)****Semester Pattern****VIII Semester B. Tech. Mechanical Engineering****Option A**

Sr No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Continual Assessment	End Sem Examination	Total
1	21ME801P*	Project based on one semester internship in Industry/Research Institute/ National Laboratories/ Incubation Center	-	-	-	12	300	100	400
Total			0	0	0	12	300	100	400

*End semester examination will consist of evaluation of seminar & project report.



Option B

Sr No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Continual Assessment	End Sem Examination	Total
1	21ME802P #	Institutional Internship	-	-	12	6	100	100	200
2	21ME803P	Project – III	-	-	12	6	100	100	200
Total			-	-	24	12	200	200	400

Option B is available to students only after recommendation of the concerned Head of the department. The project and internship should contribute towards career development plan of the students.

* Minimum 90 days internship in any industry and project is to be carried out during internship.

Two NPTEL courses (as per choice of student) or Institutional Internship by IEDC, SVP CET.

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