

VIRUDHUNAGAR S.VELLAICHAMY NADAR POLYTECHNIC COLLEGE (AUTONOMOUS),
 (Affiliated to Directorate of Technical Education, Chennai – 25)
 VIRUDHUNAGAR – 626 001.

CURRICULUM OUTLINE AND SCHEME OF EXAMINATIONS

**PROGRAMME: DIPLOMA IN MECHANICAL ENGINEERING
 N1–SCHEME**

III TERM

Course Code	Course Name	Col No	Hours per week			Credits	Duration of Exam in Hrs.	Examination Marks			Minimum Marks for Pass
			Theory	Practical	Drawing			Internal Assessment marks	External Exam Marks	Total marks	
N1ME204	Strength of Materials	1	6	-	-	7	3	25	75	100	40
N1ME301	Manufacturing Processes	2	6	-	-	6	3	25	75	100	40
N1ME205	Machine Drawing	3	1	-	4	4	3	25	75	100	40
N1ME206	Machine Drawing Practical	4	-	6	-	3	3	25	75	100	50
N1ME302	Foundry and Welding Practical	5	-	4	-	2	3	25	75	100	50
N1ME303	Lathe and Drilling Practical	6	-	4	-	2	3	25	75	100	50
N1ME304	Metrology and Metallography Practical	7	-	4	-	2	3	25	75	100	50
	TOTAL	-	13	18	4	26	-	175	525	700	-

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IV TERM

Course Code	Course Name	Col No	Hours per week			Credits	Duration of Exam in Hrs.	Examination Marks			Minimum Marks for Pass
			Theory	Practical	Drawing			Internal Assessment marks	External Exam Marks	Total marks	
N1ME305	Heat Power Engineering	1	6	-	-	7	3	25	75	100	40
N1ME306	Special Machines	2	5	-	-	6	3	25	75	100	40
N1ME307	Fluid Mechanics and Fluid Power	3	6	-	-	6	3	25	75	100	40
N1ME207	Electrical Drives and Control	4	6	-	-	6	3	25	75	100	40
N1ME308	Strength of Materials and Fluid Mechanics Practical	5	-	4	-	2	3	25	75	100	50
N1ME309	Special Machines Practical	6	-	4	-	2	3	25	75	100	50
N1ME208	Electrical Drives And Control Practical	7	-	4	-	2	3	25	75	100	50
	TOTAL	-	23	12	-	31	-	175	525	700	-

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V TERM

Course Code	Course Name	Col No	Hours per week			Credits	Duration of Exam in Hrs.	Examination Marks			Minimum Marks for Pass
			Theory	Practical	Drawing			Internal Assessment marks	External Exam Marks	Total marks	
N1ME310	Design of Machine Elements	1	6	-	-	7	3	25	75	100	40
N1ME311	Thermal and Automobile Engineering	2	6	-	-	7	3	25	75	100	40
N1ME312	Process Planning and Cost Estimation	3	6	-	-	6	3	25	75	100	40
ELECTIVE THEORY - I											
N1ME401	Total Quality Management	4	5	-	-	5	3	25	75	100	40
N1ME402	Press Tools										
N1ME403	Renewable Energy Sources and Energy Conservation										
N1ME313	Process Automation Practical	5	-	4	-	2	3	25	75	100	50
N1ME314	Thermal and Automobile Engineering Practical	6	-	4	-	2	3	25	75	100	50
N1ME315	Computer aided design practical	7	-	4	-	2	3	25	75	100	50
TOTAL		-	23	12	-	31	-	175	525	700	-

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**PROGRAMME: DIPLOMA IN MECHANICAL ENGINEERING
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VI TERM

Course Code	Course Name	Col No	Hours per week			Credits	Duration of Exam in Hrs.	Examination Marks			Minimum Marks for Pass
			Theory	Practical	Drawing			Internal Assessment marks	External Exam Marks	Total marks	
N1ME316	Industrial Engineering and Management	1	6	-	-	7	3	25	75	100	40
N1ME317	Computer Aided Design and Manufacturing	2	6	-	-	6	3	25	75	100	40
ELECTIVE THEORY - II											
N1ME404	Mechanical Instrumentation	3	5	-	-	5	3	25	75	100	40
N1ME405	Robotics										
N1ME406	Refrigeration and Air Conditioning										
N1CO400	Nano and Solar Engineering										
N1CO402	Electric Vehicle										
N1ME318	Computer Aided Manufacturing Practical	4	-	6	-	3	3	25	75	100	50
N1ME319	Machine Tool Testing, Maintenance and Instrumentation Practical	5	-	4	-	2	3	25	75	100	50
ELECTIVE PRACTICAL - II											
N1ME407	Mechanical Instrumentation Practical	6	-	4	-	2	3	25	75	100	50
N1ME408	Robotics Practical										
N1ME409	Refrigeration and Air Conditioning Practical										
N1CO401	Nano and Solar Engineering Practical										
N1C0403	Electric vehicle practical										
N1ME320	Project Work and Seminar	7	-	4	-	2	3	25	75	100	50
TOTAL		-	17	18	-	27	-	175	525	700	-