VIRUDHUNAGAR S.VELLAICHAMY NADAR POLYTECHNIC COLLEGE (AUTONOMOUS),

(Affiliated to Directorate of Technical Education, Chennai – 25)
VIRUDHUNAGAR – 626 001.

CURRICULAM OUTLINE

SEMESTER - III

Sl. No.	Course Category	Course Type	Code	Course Title	L-T-P	Period	Credit	End Exam
1.	Program Core	Theory	3233110	Electrical Machines-I	4-0-0	60	4	Theory
2.	Program Core	Theory	3233210	Electrical Circuit Theory	4-0-0	60	4	Theory
3.	Program Core	Practicum	3233340	Sensors and Measurement	1-0-4	75	3	Practical
4.	Program Core	Practicum	3233440	Analog and Digital Electronics	1-0-4	75	3	Practical
5.	Engineering Science	Practicum	3233540	Programming in C	1-0-2	45	2	Practical
6.	Program Core	Practical/ Lab	3233620	Electrical Machines-I Practical	0-0-4	60	2	Practical
7.	Open Elective	Advanced Skill Certification	3233770	Advanced Skills Certification - III	0-0-4	60	2	NA
8.	Humanities & Social Science	Integrated Learning Experience	3233880	Growth Lab	-	30	0	-
9.	Audit Course	Integrated Learning Experience	3233881	Induction Program II	-	16	0	-
10.	Audit Course	Integrated Learning Experience	3233882	I&E/ Club Activity/ Community Initiatives	-	30	0	-
11.	Audit Course	Integrated Learning Experience	3233883	Shop floor Immersion	-	8	0	-
12.	Audit Course	Integrated Learning Experience	3233884	Student-Led Initiative	-	30	0	-
13.	Audit Course	Integrated Learning Experience	3233885	Emerging Technology Seminars	-	8	0	-
14.	Audit Course	Integrated Learning Experience	3233886	Health & Wellness	0-0-2	30	1	NA
Test & Revisions (38) + Library (15)					-	53	-	-
Total					-	**640**	**21**	-

VIRUDHUNAGAR S.VELLAICHAMY NADAR POLYTECHNIC COLLEGE (AUTONOMOUS),

(Affiliated to Directorate of Technical Education, Chennai – 25)

VIRUDHUNAGAR – 626 001.

CURRICULAM OUTLINE

SEMESTER - IV

Sl. No.	Course Category	Course Type	Code	Course Title	L-T-P	Period	Credit	End Exam
1.	Program Core	Theory	3234110	Electrical Machines-II	4-0-0	60	4	Theory
2.	Program Core	Theory	3234210	Generation, Transmission and Distribution	4-0-0	60	4	Theory
3.	Program Core	Practicum	3234340	Microcontroller and Embedded Systems	1-0-4	75	3	Practical
4.	Program Core	Practicum	3234440	Electrical CAD Design	1-0-4	75	3	Practical
5.	Program Core	Practicum	3234540	Servicing of Electrical Appliances	1-0-2	45	2	Practical
6.	Program Core	Practical/Lab	3234620	Electrical Machines-II Practical	0-0-4	60	2	Practical
7.	Open Elective	Advanced Skill Certification	3234770	Advanced Skills Certification - IV	0-0-4	60	2	NA
8.	Audit Course	Integrated Learning Experience	3234882	I&E/ Club Activity/ Community Initiatives	-	30	0	-
9.	Audit Course	Integrated Learning Experience	3234883	Shop floor Immersion	-	8	0	-
10.	Audit Course	Integrated Learning Experience	3234884	Student-Led Initiative	-	30	0	-
11.	Audit Course	Integrated Learning Experience	3234885	Emerging Technology Seminars	-	8	0	-
12.	Audit Course	Integrated Learning Experience	3234886	Health & Wellness	-	30	0	-
13.	Audit Course	Integrated Learning Experience	3234887	Special Interest Groups (Placement Training)	-	30	0	-
Test & Revisions (54) + Library (15)					-	69	-	-
Total					-	**640**	**20**	-

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

CURRICULAM OUTLINE

SEMESTER - V

Sl. No,	Course Category	Course Type	Code	Course Title	L-T-P	Period	Credit	End Exam
1.	Program Core	Theory	3235110	Power System Protection and Utilization	3-0-0	45	3	Theory
2.	Program Core	Theory	3235210	Electric Vehicle Technology	3-0-0	45	3	Theory
3.	Program Core	Practicum	3235340	Power Electronics	1-0-4	75	3	Practical
4.	Program Core	Practicum	3235440	PLC and Automation	1-0-4	75	3	Practical
5.	Program Elective	Practicum		Elective -1	1-0-4	75	3	Practical
6.	Humanities & Social Science	Practicum	3235660	Innovation and Startup	1-0-2	45	2	Project
7.	Project / Internship	Project/ Internship	3235750	Industrial Training [Summer Vacation - 90 Hours]	-	-	2	Project
8.	Open Elective	Advanced Skill Certification	3235870	Advanced Skills Certification -V	0-0-4	60	2	NA
9.	Audit Course	Integrated Learning Experience	3235981	Induction program III	-	40	0	-
10.	Audit Course	Integrated Learning Experience	3235984	Student-Led Initiative	-	30	0	-
11.	Audit Course	Integrated Learning Experience	3235986	Health & Wellness	-	30	0	-
12.	Audit Course	Integrated Learning Experience	3235987	Special Interest Groups (Placement Training)	-	40	0	-
Test & Revisions (60) + Library (15)					-	75	0	-
Total					-	635	21	-

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

Elective - 1:

Sl. No.	Course Category	Course Type	Code	Course Title	L-T-P	Period	Credit	End Exam
1.	Program Elective	Practicum	3235541	IoT And Application	1-0-4	75	3	Practical
2.	Program Elective	Practicum	3235542	Computer Hardware and Networking	1-0-4	75	3	Practical
3.	Program Elective	Practicum	3235543	Control of Electrical Machines	1-0-4	75	3	Practical
4.	Program Elective	Practicum	3235544	Auto Mechatronics	1-0-4	75	3	Practical
5.	Program Elective	Practicum	3235545	Mechanical Engineering	1-0-4	75	3	Practical
6.	Program Elective	Practicum	3235546	Estimation, Standards and Regulations	1-0-4	75	3	Practical
7.	Program Elective	Practicum	*******	Inter discipline course #	1-0-4	75	3	Practical
# Courses from other programmes with the same credit can be considered after proper approval from the Principal and Chairman awards committee.								

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

CURRICULAM OUTLINE

SEMESTER - VI

Sl. No	Course Category	Course Type	Code	Course Title	L-T-P	Period	Credit	End Exam
1.	Open Elective	Theory		Elective - 2 (Pathway)	3-0-0	45	3	Theory
2.	Open Elective	Practicum		Elective - 3 (Specialization)	2-0-2	60	3	Theory
3.	Industrial Training / Project	Project / Internship	3236390 / 3236391 / 3236392	In-house Project / Internship / Fellowship	-	540	12	Project
	Test & Revisions				-	15	-	-
				Total	-	**660**	**18**	-

VIRUDHUNAGAR S.VELLAICHAMY NADAR POLYTECHNIC COLLEGE (AUTONOMOUS),

(Affiliated to Directorate of Technical Education, Chennai – 25)
VIRUDHUNAGAR – 626 001.

Elective - 2 (Pathway):

Sl. No	Course Category	Course Type	Code	Course Title	L-T-P	Period	Credit	End Exam
1.	Open Elective | Higher Education	Theory	C236111	Advanced Engineering Mathematics	3-0-0	45	3	Theory
2.	Open Elective | Entrepreneurship	Theory	C236112	Entrepreneurship	3-0-0	45	3	Theory
3.	Open Elective | Technocrats	Theory	C236113	Project Management	3-0-0	45	3	Theory
4.	Open Elective | Technocrats	Theory	C236114	Finance Fundamentals	3-0-0	45	3	Theory
5.	Open Elective | Technocrats	Theory	3236115	Industrial Management And Safety	3-0-0	45	3	Theory
6.	Open Elective | Technocrats	Theory	3236116	Battery Management System	3-0-0	45	3	Theory
7.	Open Elective | Technocrats	Theory	3236117	Industrial Automation	3-0-0	45	3	Theory
8.	Open Elective | Technocrats	Theory		Online Elective Courses $	3-0-0	45	3	Theory
$ Online courses with the same credit available in AICTE, NPTEL and reputed Institutions with the proper evaluation system and certification can be considered after proper approval from the Principal and Chairman awards committee.								

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

Elective - 3 (Specialization):

Sl. No	Course Category	Course Type	Code	Course Title	L-T-P	Period	Credit	End Exam
1.	Open Elective	Practicum	3236231	HVAC (R & AC)	2-0-2	60	3	Theory
2.	Open Elective	Practicum	3236232	PCB Design and Assembly	2-0-2	60	3	Theory
3.	Open Elective	Practicum	3236233	Electronics Product Design	2-0-2	60	3	Theory
4.	Open Elective	Practicum	3236234	Renewable Energy Systems	2-0-2	60	3	Theory
5.	Open Elective	Practicum	3236235	Energy Conservation and Auditing	2-0-2	60	3	Theory
6.	Open Elective	Practicum	3236236	Electrical Drives and Controls	2-0-2	60	3	Theory