

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

SEMESTER: III

CURRICULUM OUTLINE

S. No	Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Core	Theory	8233110	Basic Organic Chemistry	3-0-0	45	3	Theory
2	Program Core	Theory	8233210	Mould Manufacturing Technology	3-0-0	45	3	Theory
3	Program Core	Practicum	8233340	Polymer Science	2-0-4	90	4	Practical
4	Program Core	Practicum	8233440	Basic Electrical and Control Circuits	2-0-4	90	4	Practical
5	Program Core	Practical	8233520	Tool Room Special Machines Practical	0-0-4	60	2	Practical
6	Program Core	Practical	8233620	CNC Simulation Practical	0-0-4	60	2	Practical
7	Open Elective	Advanced skill Certification	8233770	Advanced skill Certification- III	1-0-2	60	2	NA
8	Humanities and social science	Integrated learning Experience	8233880	Growth Lab	-	30	-	-
9	Audit Course	Integrated learning Experience	8233881	Induction Program-II	-	16	-	-
10	Audit Course	Integrated learning Experience	8233882	I & E / Club Activity /Community Initiatives	-	30	-	-
11	Audit Course	Integrated learning Experience	8233883	Shop Floor Immersion	-	8	-	-
12	Audit Course	Integrated learning Experience	8233884	Student-Led Initiative	-	30	-	-
13	Audit Course	Integrated learning Experience	8233885	Emerging Technology Seminars	-	8	-	-
14	Audit Course	Integrated learning Experience	8233886	Health and Wellness	0-0-2	30	1	NA
Test & Revisions					-	23	-	-
Library					-	15	-	-
Total					-	640	21	-

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SEMESTER: IV

CURRICULUM OUTLINE

S. No	Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Core	Theory	8234110	Plastics Processing	3-0-0	45	3	Theory
2	Program Core	Practicum	8234230	Plastics Materials	2-0-2	60	3	Theory
3	Program Core	Practicum	8234340	Basic Hydraulics and Pneumatics	1-0-4	75	3	Practical
4	Program Core	Practicum	8234440	Mould Elements using 3D Software Practical	2-0-4	90	4	Practical
5	Program Core	Practical	8234520	Plastics Identification Practical	0-0-4	60	2	Practical
6	Program Core	Practical	8234620	Plastics Processing Practical I	0-0-4	60	2	Practical
7	Open Elective	Advanced skill Certificatio	8234770	Advanced skill Certification- IV	1-0-2	60	2	NA
8	Audit Course	Integrated learning Experience	8234882	I & E / Club Activity /Community Initiatives	-	30	-	NA
9	Audit Course	Integrated learning Experience	8234883	Shop Floor Immersion	-	8	-	-
10	Audit Course	Integrated learning Experience	8234884	Student-Led Initiative	-	30	-	-
11	Audit Course	Integrated learning Experience	8234885	Emerging Technology Seminars	-	8	-	-
12	Audit Course	Integrated learning Experience	8234886	Health and Wellness	-	30	-	-
13	Audit Course	Integrated learning Experience	8234887	Special Interest Groups ( Placement Training )	-	30	-	-
Test & Revisions					-	39	-	-
Library					-	15	-	-
Total					-	640	19	-

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SEMESTER: V

CURRICULUM OUTLINE

S. No	Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Core	Practicum	8235130	Advanced Plastics Materials and Testing of Plastics	3-0-2	75	4	Theory
2	Program Core	Practicum	8235230	Industrial Engineering and Management	3-0-2	75	4	Theory
3	Program Elective	Theory		Elective 1	3-0-0	45	3	Theory
4	Program Core	Practicum	8235440	Plastics Processing Practical II	1-0-4	75	3	Practical
5	Program Elective	Practical		Elective 2	0-0-4	60	2	Practical
6	Humanities and social science	Practicum	8235660	Innovation and Startup	1-0-2	45	2	Project
7	Project / Internshi	Project / Internship	8235750	Industrial Training ( Summer Vacation 90 Hrs )	-	-	2	Project
8	Open Elective	Advanced skill Certificatio	8235870	Advanced skill Certification- V	1-0-2	60	2	NA
9	Audit Course	Integrated learning Experienc	8235981	Induction Program III	-	40	-	-
10	Audit Course	Integrated learning Experience	8235984	Student-Led Initiative	-	30	-	-
11	Audit Course	Integrated learning Experience	8235986	Health and Wellness	-	30	-	-
12	Audit Course	Integrated learning Experience	8235987	Special Interest Groups ( Placement Training )	-	40	-	-
Test & Revisions					-	45		
Library					-	15	-	
Total					-	635	22	-

**SEMESTER : V**

Elective 1

S. No	Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Elective	Theory	8235311	Plastics Mould and Die Design	3-0-0	45	3	Theory
2	Program Elective	Theory	8235312	Plastics Packaging Technology	3-0-0	45	3	Theory
3	Program Elective	Theory	*****	Inter Discipline Course #	3-0-0	45	3	Theory

Elective 2

S. No	Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Elective	Practical	8235521	Plastics Mould Design Drawing Practical	0-0-4	60	2	Practical
2	Program Elective	Practical	8235522	Plastics Packaging Technology Practical	0-0-4	60	2	Practical
3	Program Elective	Practical	*****	Inter Discipline Course #	0-0-4	60	2	Practical

# Course from other program with the same credit can be considered after proper approval from the Principal & Chairman Awards Committee

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SEMESTER: VI

CURRICULUM OUTLINE

S. No	Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
1	Open Elective	Theory		Elective 3 ( Pathway)	3-0-0	45	3	Theory
2	Open Elective	Practicum		Elective 4 ( Specialization)	1-0-4	75	3	Practical
3	Industrial Training / Project	Project / Internship		In-house project / Internship / Fellowship	-	540	12	Project
					Total	660	18	-

Elective 3 ( Pathway)

S. No	Course Category	Course Type	Course 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	8236115	Plastics Waste Management and	3-0-0	45	3	Theory
6	Open Elective Technologist	Theory	*****	Online Elective Course \$	3-0-0	45	3	Theory

\$ Online course with the same credit available in AICTE, NPTEL and reputed institution with proper Evaluation system and certification can be consider after proper approval from the Principal & Chairman Awards Committee

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SEMESTER: VI

Elective 4 ( Specialization )

S. No	Course Category	Course Type	Course Code	Course Title	L-T-P	Per iod	Credit	End Exam
1	Open Elective	Practicum	8236241	Plastics Mould Making Practical	1-0-4	75	3	Practical
2	Open Elective	Practicum	8236242	Composites Technology	1-0-4	75	3	Practical
3	Open Elective	Practicum	C236249	Nano and Solar Engineering	1-0-4	75	3	Practical

S. No	Course Category	Course Type	Course Code	Course Title	L-T-P	Per iod	Credit	End Exam
1	Industrial Training / Project	Project / Internship	8236390	In-house project	-	540	12	Project
2	Industrial Training / Project	Project / Internship	8236391	Internship	-	540	12	Project
3	Industrial Training / Project	Project / Internship	8236392	Fellowship	-	540	12	Project