

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

SEMESTER - III

S.No	Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Core	Theory	7233110	Digital Logic Design	3-0-0	45	3	Theory
2	Program Core	Practicum	7233230	RDBMS	3-0-2	75	4	Theory
3	Program Core	Practical	7233320	Digital Logic Design Practical	0-0-4	60	2	Practical
4	Program Core	Practicum	7233440	C Programming	1-0-4	75	3	Practical
5	Program Core	Practicum	7233540	Web Designing	1-0-4	75	3	Practical
6	Program Core	Practicum	7233640	Operating Systems	1-0-2	45	2	Practical
7	Open Elective	Advanced skill Certification	7233770	Advanced skill Certification- III	1-0-2	60	2	NA
8	Humanities and social science	Integrated learning Experience	7233880	Growth Lab		30	0	NA
9	Audit Course	Integrated learning Experience	7233881	Induction Program-II		16	0	
10	Audit Course	Integrated learning Experience	7233882	I & E / Club Activity /Community Initiatives		30	0	
11	Audit Course	Integrated learning Experience	7233883	Shop Floor Immersion		8	0	
12	Audit Course	Integrated learning Experience	7233884	Student-Led Initiative		30	0	
13	Audit Course	Integrated learning Experience	7233885	Emerging Technology Seminars		8	0	
14	Audit Course	Integrated learning Experience	7233886	Health and Wellness	0-0-2	30	1	
Test & Revisions					-	38		-
Library					-	15		-
Total					-	640	20	-

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SEMESTER - IV

S.No	Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Core	Theory	7234110	Computer Networks and Security	3-0-0	45	3	Theory
2	Program Core	Practicum	7234230	Data Structures Using Python	3-0-2	75	4	Theory
3	Program Core	Practicum	7234340	Java Programming	2-0-4	90	4	Practical
4	Program Core	Practicum	7234440	Python Programming	1-0-4	75	3	Practical
5	Program Core	Practicum	7234540	E-Publishing Tools	1-0-4	75	3	Practical
6	Program Core	Practicum	7234694	Scripting Languages	0-0-6	90	3	Project
7	Open Elective	Advanced skill Certification	7234770	Advanced skill Certification- IV	1-0-2	60	2	NA
8	Audit Course	Integrated learning Experience	7234882	I & E / Club Activity /Community Initiatives		15	0	
9	Audit Course	Integrated learning Experience	7234883	Shop Floor Immersion	.	08	0	.
10	Audit Course	Integrated learning Experience	7234884	Student-Led Initiative	.	16	0	.
11	Audit Course	Integrated learning Experience	7234885	Emerging Technology Seminars	.	08	0	.
12	Audit Course	Integrated learning Experience	7234886	Health and Wellness	.	15	0	.
13	Audit Course	Integrated learning Experience	7234887	Special Interest Groups (Placement Training)	.	08	0	.
Test & Revisions					-	45		-
Library					-	15		-
Total					-	640	22	-

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CURRICULUM OUTLINE

SEMESTER - V

S.No	Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Core	Practicum	7235130	Cloud Computing	2-0-2	60	3	Theory
2	Program Elective	Theory		Elective-1	3-0-0	45	3	Theory
3	Program Core	Practical	7235320	Internet of Things and Digital Twins	0-0-4	60	2	Practical
4	Program Core	Practicum	7235440	Computer Hardware and Networking	1-0-4	75	3	Practical
5	Program Elective	Practicum		Elective-2	1-0-4	75	3	Practical
6	Humanities and social science	Practicum	7235660	Innovation and Startup	1-0-2	45	2	Project
7	Project / Internship	Project / Internship	7235750	Industrial Training (Summer Vacation 90 Hrs)		-	2	Project
8	Open Elective	Advanced skill Certification	7235870	Advanced skill Certification-V	1-0-2	60	2	NA
9	Audit Course	Integrated learning Experience	7234981	Induction Program III		30	0	
10	Audit Course	Integrated learning Experience	7234984	Student-Led Initiative	.	25	0	.
11	Audit Course	Integrated learning Experience	7234986	Health and Wellness	.	30	0	.
12	Audit Course	Integrated learning Experience	7234987	Special Interest Groups (Placement Training)	.	30	0	.
Test & Revisions					-	85		-
Library					-	15		-
Total					-	635	20	-

Computer Engineering

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Elective-1

Elective 1 #	Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Elective	Theory	7235211	Machine Learning	3-0-0	45	3	Theory
2	Program Elective	Theory	7235212	Data Warehousing and Data Mining	3-0-0	45	3	Theory
3	Program Elective	Theory	7235213	Ethical Hacking	3-0-0	45	3	Theory
4	Program Elective	Theory	7235214	Agile Product Development	3-0-0	45	3	Theory
5	Program Elective	Theory	7235215	Artificial Intelligence	3-0-0	45	3	Theory

Elective-2

Elective 2 #	Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Elective	Practicum	7235541	Data Analytics	1-0-4	75	3	Practical
2	Program Elective	Practicum	7235542	Mobile Computing	1-0-4	75	3	Practical
3	Program Elective	Practicum	7235543	Component Based Technologies	1-0-4	75	3	Practical
4	Program Elective	Practicum	7235544	Multimedia Systems	1-0-4	75	3	Practical
5	Program Elective	Practicum	7235545	Full Stack Developer	1-0-4	75	3	Practical
6	Program Elective	Practicum	7235546	Robotic Process Automation	1-0-4	75	3	Practical

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CURRICULUM OUTLINE

SEMESTER – VI

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 (Specialisation)	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)

Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
Elective Higher Education	Theory	C236111	Advanced Engineering Mathematics	3-0-0	45	3	Theory
Elective Entrepreneurship	Theory	C236112	Entrepreneurship	3-0-0	45	3	Theory
Elective Technocrats	Theory	C236113	Project Management	3-0-0	45	3	Theory
Elective Technocrats	Theory	C236114	Finance Fundamentals	3-0-0	45	3	Theory
Elective Technocrats	Theory	7236115	5G Technology	3-0-0	45	3	Theory
Elective Technologist	Theory	7236116	DevOps	3-0-0	45	3	Theory

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Elective 4 (Specialisation)

Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
Elective	Practicum	7236241	Data Science	1-0-4	75	3	Practical
Elective	Practicum	7236242	Cloud Platform	1-0-4	75	3	Practical
Elective	Practicum	7236243	Data Visualization	1-0-4	75	3	Practical
Elective	Practicum	7236244	Advance DBMS	1-0-4	75	3	Practical
Elective	Practicum	7236245	Mobile Application Development	1-0-4	75	3	Practical
Elective	Practicum	7236246	UI and UX Design	1-0-4	75	3	Practical

Project / Internship

Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
Project / Internship	Project / Internship	7236390	In-house project	-	540	12	Project
Project / Internship	Project / Internship	7236391	Internship	-	540	12	Project
Project / Internship	Project / Internship	7236392	Fellowship	-	540	12	Project