

**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	1233110	Mechanics of Materials	3-0-0	45	3	Theory
2	Program Core	Theory	1233210	Construction Materials	3-0-0	45	3	Theory
3	Program Core	Practicum	1233340	Surveying Practice	1-0-4	75	3	Practical
4	Program Core	Practicum	1233440	Building Planning and Drawing	1-0-4	75	3	Practical
5	Program Core	Practicum	1233540	Hydraulics	1-0-4	75	3	Practical
6	Program Core	Practicum	1233640	Material Testing Practical	1-0-4	75	3	Practical
7	Open Elective	Advanced skill Certification	1233770	Advanced skill Certification-III	1-0-2	60	2	NA
8	Humanities and social science	Integrated learning Experience	1233880	Growth Lab	-	30	-	-
9	Audit Course	Integrated learning Experience	1233881	Induction Program-II	-	16	-	-
10	Audit Course	Integrated learning Experience	1233882	I & E / Club Activity /Community Initiatives	-	16	-	-
11	Audit Course	Integrated learning Experience	1233883	Shop Floor Immersion	-	6	-	-
12	Audit Course	Integrated learning Experience	1233884	Student-Led Initiative	-	24	-	-
13	Audit Course	Integrated learning Experience	1233885	Emerging Technology Seminars	-	8	-	-
14	Audit Course	Integrated learning Experience	1233886	Health & Wellness	0-0-2	30	1	NA
Test &Revisions					-	45	-	-
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	1234110	Mechanics of Structures	3-0-0	45	3	Theory
2	Program Core	Theory	1234210	Transportation Engineering	3-0-0	45	3	Theory
3	Program Core	Practicum	1234330	Soil Mechanics and Foundation Engineering	2-0-2	60	3	Theory
4	Program Core	Practicum	1234440	Concrete Technology	1-0-4	75	3	Practical
5	Engineering	Practicum	1234540	Construction Practices	1-0-4	75	3	Practical
6	Program Core	Practicum	1234640	Estimation and Costing	1-0-4	75	3	Practical
7	Open Elective	Advanced skill Certification	1234770	Advanced skill Certification- IV	2-0-2	60	2	NA
8	Audit Course	Integrated learning Experience	1234882	I & E / Club Activity /Community Initiatives	-	40	-	NA
9	Audit Course	Integrated learning Experience	1234883	Shop Floor Immersion	-	8	-	-
10	Audit Course	Integrated learning Experience	1234884	Student-Led Initiative	-	25	-	-
11	Audit Course	Integrated learning Experience	1234885	Emerging Technology Seminars	-	12	-	-
12	Audit Course	Integrated learning Experience	1234886	Health & Wellness	-	30	-	-
13	Audit Course	Integrated learning Experience	1234887	Special Interest Groups (Placement Training)	-	30	-	-
Test & Revisions					-	45	-	-
Library					-	15	-	-
Total					-	640	20	-

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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	Theory	1235110	Design of RCC Structures (Limit State Method)	4-0-0	60	4	Theory
2	Program Elective	Theory		Elective 1	3-0-0	45	3	Theory
3	Program Core	Practical	1235320	Computer Applications in Civil Engineering.	0-0-4	60	2	Practical
4	Program Core	Practicum	1235440	Construction Management and Safety Practice	1-0-4	75	3	Practical
5	Program Core	Practicum	1235540	Environmental Engineering	1-0-4	75	3	Practical
6	Humanities and social science	Practicum	1235660	Innovation & Startup	1-0-2	45	2	Project
7	Project / Internship	Project / Internship	1235750	Industrial Training (Summer Vacation 90 Hrs)	-	-	2	Project
8	Open Elective	Advanced skill Certification	1235870	Advanced skill Certification- V	2-0-2	60	2	NA
9	Audit Course	Integrated learning Experience	1235981	Induction Program III	-	40	-	-
10	Audit Course	Integrated learning Experience	1235984	Student-Led Initiative	-	45	-	-
11	Audit Course	Integrated learning Experience	1235986	Health& Wellness	-	30	-	-
12	Audit Course	Integrated learning Experience	1235987	Special Interest Groups (Placement Training)	-	40	-	-
Test & Revisions					-	45	-	-
Library					-	15	-	-
Total					-	635	21	-

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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	1235211	Mechanical, Electrical, and Plumbing Services	3-0-0	45	3	Theory
2	Program Elective	Theory	1235212	Irrigation and water resource engineering	3-0-0	45	3	Theory
3	Program Elective	Theory	1235213	Defects in Building and Remedies	3-0-0	45	3	Theory
4	Program Elective	Theory	1235214	Urban Planning and Development	3-0-0	45	3	Theory
5	Program Elective	Theory	1235215	Building Bye Laws and Statutory drawings	3-0-0	45	3	Theory

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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 2 (Pathway)	3-0-0	45	3	Theory
2	Open Elective	Practicum		Elective 3 (Specialisation)	1-0-4	75	3	Practical
3	Project / Internship	Project / Internship		In-house project / Internship / Fellowship /	-	540	12	Project
Total						660	18	-

Elective 2(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 Technologist	Theory	1236115	Advanced Environmental Engineering	3-0-0	45	3	Theory
6	Open Elective Technologist	Theory	1236116	Advanced Concrete Technology	3-0-0	45	3	Theory
7	Open Elective Technologist	Theory	1236117	Advanced Transportation Engineering	3-0-0	45	3	Theory
8	Open Elective Technologist	Theory	1236118	Advanced Surveying	3-0-0	45	3	Theory
9	Elective Open 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 considered after proper approval from Principal and Chairman, Awards committee.

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SEMESTER: VI

Elective 3(Specialization)

S. No	Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
1	Open Elective	Practicum	1236241	Artificial Intelligence and Machine Language in Construction Management	1-0-4	75	3	Practical
2	Open Elective	Practicum	1236242	Structural Detailing for RCC elements	1-0-4	75	3	Practical
3	Open Elective	Practicum	1236243	Design and Drawing of Steel Elements	1-0-4	75	3	Practical

S. No	Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
1	Project / Internship	Project / Internship	1236390	In-house project	-	540	12	Project
2	Project / Internship	Project / Internship	1236391	Internship	-	540	12	Project
3	Project / Internship	Project / Internship	1236392	Fellowship	-	540	12	Project