



# ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

## B.Tech. Scheme of Examination & Syllabus 2022-23

### CIVIL ENGINEERING

#### V Semester B. Tech. (Civil Engineering)

Sr No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Continual Assessment	End Sem Examination	Total
1	22CV501T	Fluid Mechanics - I	3	-	-	3	30	70	100
2	22CV501P	Fluid Mechanics - I Lab	-	-	2	1	25	25	50
3	22CV502T	Reinforced Cement Concrete Structures	3	-	-	3	30	70	100
4	22CV502P	Reinforced Cement Concrete Structures Lab	-	-	2	1	25	25	50
5	22CV503T	Professional Elective - I	3	-	-	3	30	70	100
6	22CV503P	Professional Elective – I Lab	-	-	2	1	25	25	50
7	22CV561O	Open Elective - I	3	-	-	3	30	70	100
8	22H104	Foundational Humanities Elective	2	-	-	0	Audit		
9	22AS502T	English for Engineers	2	-	-	2	15	35	50
10	22CV504P	Technical Skill Development-II	-	-	2	1	50	-	50
11	22CV505P	Career Development - III	2	-	-	0	Audit		
<b>Total</b>			<b>18</b>	<b>-</b>	<b>8</b>	<b>18</b>	<b>260</b>	<b>390</b>	<b>650</b>

\* Career Development (Interpersonal Skills, Aptitude, and Logical Thinking)

\*\* Technical Skill Development – Desirable to have Industry skill enhancement

22CV503T	Professional Elective - I
22CV503T(i)	PE-I Advanced Structural Analysis
22CV503T(ii)	PE-I Computer Applications in Civil Engineering
22CV503T(iii)	PE-I Advanced Surveying

22CV561O	Open Elective - I
22CV561O(i)	OE-I Introduction to Transportation Engineering
22CV561O(ii)	OE-I Construction Techniques

22CV503P	Professional Elective - I Lab
22CV503P(i)	PE-I Advanced Structural Analysis Lab
22CV503P(ii)	PE-I Computer Applications in Civil Engineering Lab
22CV503P (iii)	PE-I Advanced Surveying Lab

22H104	Foundational Humanities Elective
22H104	Development of Societies
22H104	Philosophy

		July 2024	1.0	Applicable for 2024-25
Chairman - BoS	Dean – Academics	Date of Release	Version	



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**B.Tech. Scheme of Examination & Syllabus 2022-23  
CIVIL ENGINEERING**

**VI Semester B. Tech. (Civil Engineering)**

Sr No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Continual Assessment	End Sem Examination	Total
1	22CV601T	Fluid Mechanics - II	3	-	-	3	30	70	100
2	22CV601P	Fluid Mechanics – II Lab	-	-	2	1	25	25	50
3	22CV602T	Steel Structures	4	-	-	4	30	70	100
4	22CV602P	Steel Structures Lab	-	-	2	1	25	25	50
5	22CV603T	Professional Elective - II	3	-	-	3	30	70	100
6	22CV604T	Professional Elective - III	3	-	-	3	30	70	100
7	22CV6610	Open Elective-II	3	-	-	3	30	70	100
8	22AS501T	Economics and Management	4	-	-	4	30	70	100
9	22CV606P	Project – I	-	-	2	2	50	50	100
10	22CV607P	Career Development*	2	-	-	-	Audit		
11	22CV608P	Capstone Course – I **	-	-	2	1	25	25	50
<b>Total</b>			<b>22</b>	<b>-</b>	<b>8</b>	<b>25</b>	<b>305</b>	<b>545</b>	<b>850</b>

\* Career Development (Interpersonal Skills and Aptitude)

\*\* Capstone Course – I (Comprehensive knowledge gained in Civil Engineering)

22CV603T	Professional Elective - II
22CV603(i)	Irrigation Engineering
22CV603(ii)	Air Pollution & Control
22CV603(iii)	Building Services

22CV604T	Professional Elective - III
22CV604(i)	Repairs & Rehabilitation of Structures
22CV604(ii)	Railway, Airport and Tunnels
22CV604(iii)	Solid Waste Management

22CV6610	Open Elective-II
22CV6610 (i)	Green Building and Vastu Concepts

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