



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

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

## B. Tech. Scheme of Examination & Syllabus 2026-27

### CIVIL ENGINEERING

#### Annexure – I

#### CREDIT FRAMEWORK STRUCTURE

Semester		I	II	III	IV	V	VI	VII	VIII	Total Credits
Basic Science Course	BSC/ESC	7	7	-	-	-	-	-	-	14
Engineering Science Course		6	6	-	-	-	-	-	-	12
Program Core Course (PCC)	Program Courses	2	2	13	10	7	4	6		44
Program Elective Course (PEC)		-	-	-	-	4	6	6	4	20
Multidisciplinary Minor (MDM)	Multidisciplinary Courses	-	-	2	3	3	3	3	-	14
Open Elective (OE) Other than a particular program		-	-	-	-	2	3	3	-	08
Vocational and Skill Enhancement Course (VSEC)	Skill Courses	2	-	1	1	2	2	-	-	08
Ability Enhancement Course (AEC -01, AEC-02)	Humanities Social Science and Management (HSSM)	1	1	-	-	2	-	-	-	04
Entrepreneurship/Economics/Management Courses		-	-	2	2	-	-	-	-	04
Indian Knowledge System (IKS)		-	2	-	-	-	-	-	-	02
Value Education Course (VEC)		-	-	2	2	-	-	-	-	04
Research Methodology	Experiential Learning Courses	-	-	-	-	-	-	-	4	04
Comm. Engg. Project (CEP)/ Field Project (FP)		-	-	-	2	-	-	-	-	02
Project		-	-	-	-	-	2	2	-	04
Internship/OJT		-	-	-	-	-	-	-	12	12
Co-curricular Courses (CC)	Liberal Learning Courses	2	2	-	-	-	-	-	-	04
<b>Total Credits (Major)</b>		<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>160</b>

		July 2026	NEP 4.0	Applicable for 2026-27 Admitted
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## B. Tech. Scheme of Examination & Syllabus 2026-27

### CIVIL ENGINEERING

#### FIRST SEMESTER

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	BSC	26CV101T	Applied Physics	2	-	-	2	10	10	30	50	23	1.5
2	BSC	26CV101P	Applied Physics Lab	-	-	2	1	-	25	25	50	25	-
3	BSC	26CV102T	Linear Algebra and Calculus	3	-	-	3	20	20	60	100	45	3
4	BSC	26CV102P	Linear Algebra and Calculus Lab	-	-	2	1	-	25	25	50	25	-
5	ESC	26CV103T	Engineering Mechanics	3	-	-	3	20	20	60	100	45	3
6	ESC	26CV103P	Engineering Mechanics Lab	-	-	2	1	-	25	25	50	25	-
7	ESC	26CV104P	Logic building with C Lab	-	-	4	2	-	25	25	50	25	-
8	PCC	26CV105T	Building Materials	2	-	-	2	10	10	30	50	23	1.5
9	AEC	26CV106P	Business Communication Skills – I Lab	-	-	2	1	-	25	25	50	25	-
10	SEC	26CV207T	Design Thinking #	2	-	-	2	10	10	30	50	23	1.5
11	CC	26CV108P	Co-curricular Courses - I	-	-	4	2	-	50	-	50	25	-
<b>Total</b>				<b>12</b>	<b>-</b>	<b>16</b>	<b>20</b>	<b>70</b>	<b>245</b>	<b>335</b>	<b>650</b>	<b>-</b>	<b>-</b>

From above # is mapped with NPTEL/SWAYAM/MOOC offered course in that Session. Exam will be conducted by NPTEL/Institute. The course will be notified one month prior to commencement of semester.

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### CIVIL ENGINEERING

#### SECOND SEMESTER

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	BSC	26CV201T	Applied Chemistry	2	-	-	2	10	10	30	50	23	1.5
2	BSC	26CV201P	Applied Chemistry Lab	-	-	2	1	-	25	25	50	25	-
3	BSC	26CV202T	Statistics and Transforms	3	-	-	3	20	20	60	100	45	3
4	BSC	26CV202P	Statistics and Transforms Lab	-	-	2	1	-	25	25	50	25	-
5	ESC	26CV203T	Engineering Graphics	2	-	-	2	10	10	30	50	23	1.5
6	ESC	26CV203P	Engineering Graphics Lab	-	-	2	1	-	25	25	50	25	-
7	ESC	26CV204T	Basics of Electrical and Electronics Engineering	2	-	-	2	10	10	30	50	23	1.5
8	ESC	26CV204P	Basics of Electrical and Electronics Engineering Lab	-	-	2	1	-	25	25	50	25	-
9	PCC	26CV205T	Building Construction	2	-	-	2	10	10	30	50	23	1.5
10	AEC	26CV206P	Business Communication Skills – II Lab	-	-	2	1	-	25	25	50	25	-
11	IKS	26CV107T	Indian Knowledge Systems #	2	-	-	2	10	10	30	50	23	1.5
12	CC	26CV208P	Co-curricular Courses – II	-	-	4	2	-	50	-	50	25	-
<b>Total</b>				<b>13</b>	<b>-</b>	<b>14</b>	<b>20</b>	<b>70</b>	<b>245</b>	<b>335</b>	<b>650</b>	<b>-</b>	<b>-</b>

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### CIVIL ENGINEERING

#### THIRD SEMESTER

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	26CV301T	Solid Mechanics	3	-	-	3	20	20	60	100	45	3
2	PCC	26CV301P	Solid Mechanics Lab	-	-	2	1	-	25	25	50	25	-
3	PCC	26CV302T	Concrete Technology	3	-	-	3	20	20	60	100	45	3
4	PCC	26CV302P	Concrete Technology Lab	-	-	2	1	-	25	25	50	25	-
5	PCC	26CV303T	Environmental Engineering	3	-	-	3	20	20	60	100	45	3
6	PCC	26CV303P	Environmental Engineering Lab	-	-	2	1	-	25	25	50	25	-
7	PCC	26CV304P	Computer Aided Civil Engineering Drawing	-	-	2	1	-	25	25	50	25	-
8	VEC	26CV305T	Environmental Science	2	-	-	2	10	10	30	50	23	1.5
9	HSSM	26CV306T	Fundamentals of Economics and Management	2	-	-	2	10	10	30	50	23	1.5
10	SEC	26CV341P	Career Development I	-	-	2	1	-	50	-	50	25	-
11	MDM	26CV331M	MDM – I (Refer MDM basket)	2	-	-	2	10	10	30	50	23	1.5
<b>Total</b>				<b>15</b>	<b>-</b>	<b>10</b>	<b>20</b>	<b>90</b>	<b>240</b>	<b>370</b>	<b>700</b>	<b>-</b>	<b>-</b>

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Multi-Disciplinary Minor - I	

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### CIVIL ENGINEERING

#### FOURTH SEMESTER

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	26CV401T	Structural Analysis	3	-	-	3	20	20	60	100	45	3
2	PCC	26CV401P	Structural Analysis Lab	-	-	2	1	-	25	25	50	25	-
3	PCC	26CV402T	Fluid Mechanics	3	-	-	3	20	20	60	100	45	3
4	PCC	26CV402P	Fluid Mechanics Lab	-	-	2	1	-	25	25	50	25	-
5	PCC	26CV403P	Surveying and Geomatics Lab	-	-	4	2	-	50	50	100	50	-
6	VEC	26CV405T	Constitution of India	2	-	-	2	10	10	30	50	23	1.5
7	HSSM	26CV406T	Fundamentals of Entrepreneurship	2	-	-	2	10	10	30	50	23	1.5
8	SEC	26CV441P	Career Development - II	-	-	2	1	-	50	-	50	-	-
9	CEP	26CV404P	Mini Project*	-	-	4	2	-	50	-	50	-	-
10	MDM	26CV431M	MDM-II (Refer MDM basket)#	3	-	-	3	20	20	60	100	45	3
<b>Total</b>				<b>13</b>	<b>-</b>	<b>14</b>	<b>20</b>	<b>80</b>	<b>280</b>	<b>340</b>	<b>700</b>	<b>-</b>	<b>-</b>

From above # is mapped with NPTEL/SWAYAM/MOOC offered course in that Session. Exam will be conducted by NPTEL/Institute. The course will be notified one month prior to commencement of semester.

\* Field Project or Community engagement project in the major discipline

Multi-Disciplinary Minor - II	

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### CIVIL ENGINEERING

#### FIFTH SEMESTER

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	26CV501T	Transportation Engineering	2	-	-	2	10	10	30	50	23	1.5
2	PCC	26CV501P	Transportation Engineering Lab	-	-	2	1	-	25	25	50	25	-
3	PCC	26CV502T	Reinforced Cement Concrete Structures	3	-	-	3	20	20	60	100	45	3
4	PCC	26CV502P	Reinforced Cement Concrete Structures Lab	-	-	2	1	-	25	25	50	25	-
5	PEC	26CV503T	Program Elective - I (Refer PE basket)	3	-	-	3	20	20	60	100	45	3
6	PEC	26CV503P	Program Elective - I Lab (Refer PE basket)	-	-	2	1	-	25	25	50	25	-
7	VSC	26CV504P	Technical Skill Development - I	-	-	4	2	-	50	-	50	-	-
8	AEC	26CV541P	English for Engineers	-	-	4	2	-	50	-	50	-	-
9	MDM	26CV531M	MDM – III (Refer MDM basket) #	3	-	-	3	20	20	60	100	45	3
10	OE	26CV561O	Open Elective – I (Refer OE basket)	2	-	-	2	10	10	30	50	23	1.5
<b>Total</b>				<b>13</b>	<b>-</b>	<b>14</b>	<b>20</b>	<b>80</b>	<b>255</b>	<b>315</b>	<b>650</b>	<b>-</b>	<b>-</b>

From above # is mapped with NPTEL/SWAYAM/MOOC offered course in that Session. Exam will be conducted by NPTEL/Institute. The course will be notified one month prior to commencement of semester.

Open Elective - I	
25CV561O	Public Health Engineering

Program Elective - I	
25CV503T(i)	PE - I Geotechnical Engineering
25CV503T(ii)	PE - I Advanced Surveying
25CV503P(i)	PE - I Geotechnical Engineering Lab
25CV503P(ii)	PE - I Advanced Surveying Lab

Multi-Disciplinary Minor - III	

		July 2026	NEP 4.0	Applicable for 2028-29
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### CIVIL ENGINEERING

#### SIXTH SEMESTER

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	26CV601T	Steel Structures	3	-	-	3	20	20	60	100	45	3
2	PCC	26CV602P	Building Design and Drawing Lab	-	-	2	1	-	25	25	50	25	-
3	PEC	26CV603T	Program Elective - II (Refer PE basket)	3	-	-	3	20	20	60	100	45	3
4	PEC	26CV604T	Program Elective - III (Refer PE basket)	3	-	-	3	20	20	60	100	45	3
5	PROJ	26CV605P	Project - I	-	-	4	2	-	50	50	100	50	-
6	VSC	26CV606P	Technical Skill Development - II	-	-	4	2	-	50	-	50	-	-
7	MDM	26CV631M	MDM – IV (Refer MDM basket) #	3	-	-	3	20	20	60	100	45	3
8	OE	26CV661O	Open Elective – II (Refer OE basket)	3	-	-	3	20	20	60	100	45	3
<b>Total</b>				<b>15</b>	<b>-</b>	<b>10</b>	<b>20</b>	<b>100</b>	<b>225</b>	<b>375</b>	<b>700</b>	<b>-</b>	<b>-</b>

From above # is mapped with NPTEL/SWAYAM/MOOC offered course in that Session. Exam will be conducted by NPTEL/Institute. The course will be notified one month prior to commencement of semester.

Open Elective - II	
25CV661O	Green Buildings

Program Elective - II	
25CV603T(i)	Advanced Structural Analysis
25CV603T(ii)	Mass Rapid Transit System
25CV603T(iii)	Advanced Fluid Mechanics

Program Elective - III	
25CV604T(i)	Air Pollution & Control
25CV604T(ii)	Foundation Engineering
25CV604T(iii)	Advanced Traffic Engineering

Multi-Disciplinary Minor - IV	

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### CIVIL ENGINEERING

#### SEVENTH SEMESTER

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	26CV701T	Estimation and Costing	3	-	-	3	20	20	60	100	45	3
2	PCC	26CV702T	Construction Management and Law	3	-	-	3	20	20	60	100	45	3
3	PEC	26CV703T	Program Elective - IV (Refer PE basket)	3	-	-	3	20	20	60	100	45	3
4	PEC	26CV704T	Program Elective - V (Refer PE basket)	3	-	-	3	20	20	60	100	45	3
5	PROJ	26CV705P	Project - II	-	-	4	2	-	50	50	100	50	-
6	MDM	26CV731M	MDM – V (Refer MDM basket) #	3	-	-	3	20	20	60	100	45	3
7	OE	26CV761O	Open Elective – III (Refer OE basket)	3	-	-	3	20	20	60	100	45	3
<b>Total</b>				<b>18</b>	<b>-</b>	<b>4</b>	<b>20</b>	<b>120</b>	<b>170</b>	<b>410</b>	<b>700</b>	<b>-</b>	<b>-</b>

From above # is mapped with NPTEL/SWAYAM/MOOC offered course in that Session. Exam will be conducted by NPTEL/Institute. The course will be notified one month prior to commencement of semester.

Open Elective - III	
25CV761O	Air Pollution and Control

Program Elective - IV	
25CV703T(i)	Advanced Steel Design
25CV703T(ii)	Advanced Reinforced Cement Concrete Structures
25CV703T(iii)	Irrigation Engineering

Program Elective - V	
25CV704T(i)	PE - V Earthquake Resistant Design of Concrete Structures
25CV704T(ii)	PE - V Solid Waste Management
25CV704T(iii)	PE - V Ground Improvement Techniques
25CV704T(iv)	PE - V Disaster Management

Multi-Disciplinary Minor - V	

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### CIVIL ENGINEERING

#### EIGHTH SEMESTER

##### Option A

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration of ESE (hrs.)
				L	T	P		Mid Sem Examination	Continual Assessment	End Sem Examination	Total		
1.	RM	26CV801T	Research Methodology <sup>#</sup>	2	-	-	2	10	10	30	50	23	1.5
2.	RM	26CV801P	Research Methodology Lab <sup>#</sup>	-	-	4	2	-	25	25	50	25	-
3.	PEC	26CV802T	Program Elective – VI <sup>#</sup>	3	-	-	3	20	20	60	100	45	3
4.	PEC	26CV803P	Program Elective – VI Lab <sup>#</sup>	-	-	2	1	-	25	25	50	25	-
5.	OJT	26CV804P(i)	Industry/Research Internship*	-	-	24	12	-	200	200	400	200	-
<b>Total</b>				<b>5</b>	<b>-</b>	<b>30</b>	<b>20</b>	<b>30</b>	<b>280</b>	<b>340</b>	<b>650</b>	<b>-</b>	<b>-</b>

##### Option B

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration of ESE (hrs.)
				L	T	P		Mid Sem Examination	Continual Assessment	End Sem Examination	Total		
1.	RM	26CV801T	Research Methodology <sup>#</sup>	2	-	-	2	10	10	30	50	23	1.5
2.	RM	26CV801P	Research Methodology Lab <sup>#</sup>	-	-	4	2	-	25	25	50	25	-
3.	PEC	26CV802T	Program Elective – VI <sup>#</sup>	3	-	-	3	20	20	60	100	45	3
4.	PEC	26CV803P	Program Elective – VI Lab <sup>#</sup>	-	-	2	1	-	25	25	50	25	-
5.	ELC	26CV804P(ii)	Institutional Internship <sup>§</sup> and Project – III	-	-	24	12	-	200	200	400	200	-
<b>Total</b>				<b>18</b>	<b>-</b>	<b>4</b>	<b>20</b>	<b>135</b>	<b>205</b>	<b>295</b>	<b>-</b>	<b>-</b>	<b>18</b>

Option B is available to students only after recommendation of the concerned Head of the department. The project and internship should contribute towards career development plan of the students.

<sup>#</sup> Courses to be mapped with NPTEL/SWAYAM/MOOC offered courses in that semester.

\* One semester internship in any industry/ Research Institute is to be carried out.

<sup>§</sup> One Semester Internship offered by Institute Level Cells such as TPDC/ IEDC/ E-Yantra/ Team Ashwa Riders along with project in the Major Discipline assigned by department to be carried out.

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### CIVIL ENGINEERING

#### Basket for Multi-Disciplinary Minor Courses (MDM)

##### A. Civil Engineering

Semester	Course Category	Course Code	Name of Course	Subject Expert Name	Weeks	Credits
III IV V VI VII	MDM-I MDM-II MDM-III MDM-IV MDM-V	26CV331M 26CV431M 26CV531M 26CV631M 26CV731M	Sustainable Engineering Concepts and Life Cycle Analysis	Prof. Brajesh Kumar Dubey	8	2
			Plastic Waste Management	Prof. Brajesh Kumar Dubey	8	2
			Air pollution and Control	Prof. Bholu Ram Gurjar	12	3
			Physico-Chemical Processes of Waste Water Treatment	Prof. V. C. Shrivastava	12	3
			Integrated Waste Management for a Smart City	Prof. Brajesh Kumar Dubey	12	3
			Wastewater Treatment and Recycling	Prof. Manoj Kumar Tiwari	12	3
			Water and waste water treatment	Prof. Bhanu Prakash Vellanki	12	3
			Environmental Quality Monitoring and Analysis	Prof. Ravi Krishna R	12	3
Basic environmental Engineering and pollution Abatement	Prof. P. Mondal	12	3			

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#### Basket for Program Elective Courses (PEC)

#### B. Civil Engineering

Semester	Course Category	Course Code	Name of Course	Credits
V	PEC	25CV503T(i) 25CV503T(ii)	Geotechnical Engineering Advanced Surveying	3
V	PEC	25CV503P(i) 25CV503P(ii)	Geotechnical Engineering Lab Advanced Surveying Lab	1
VI	PEC	25CV603T(i) 25CV603T(ii) 25CV603T(iii)	Advanced Structural Analysis Mass Rapid Transit System Advanced Fluid Mechanics	3
VI	PEC	25CV604T(i) 25CV604T(ii) 25CV604T(iii)	Air Pollution & Control Foundation Engineering Advanced Traffic Engineering	3
VII	PEC	25CV703T(i) 25CV703T(ii) 25CV703T(iii)	Advanced Steel Design Advanced Reinforced Cement Concrete Structures Irrigation Engineering	3
VII	PEC	25CV704T(i) 25CV704T(ii) 25CV704T(iii) 25CV704T(iv)	Earthquake Resistant Design of Concrete Structures Solid Waste Management Ground Improvement Techniques Disaster Management	3

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### CIVIL ENGINEERING

#### Basket for Open Elective Courses (OE)

#### C. Civil Engineering

Semester	Course Category	Course Code	Name of Course	Credits
V	V	25CV561O	Public Health Engineering	2
VI	VI	25CV661O	Green Buildings	3
VII	VII	25CV761O	Air Pollution and Control	3

		July 2026	NEP 4.0	Applicable for 2026-27 Admitted
Chairman - BoS	Dean – Academics	Date of Release	Version	



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

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

## B. Tech. Scheme of Examination & Syllabus 2026-27

### CIVIL ENGINEERING

#### EXIT OPTIONS

**Award of UG Certificate in Major with 40 credits and an additional 8 credits (After First Year)**

EXIT COURSES			
S.N.	Course name	Mode of conduction	Credits
1.			
2.			
3.			

**Award of UG Diploma in Major with 80credits and an additional 8 credits (After Second Year)**

EXIT COURSES			
S.N.	Course name	Mode of conduction	Credits
1.			
2.			
3.			

**Award of UG Degree in Major with 120credits and an additional 8 credits (After Third Year)**

EXIT COURSES			
S.N.	Course name	Mode of conduction	Credits
1.			
2.			
3.			

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## B. Tech. Scheme of Examination & Syllabus 2026-27

### CIVIL ENGINEERING

#### Scheme of Examination -Honors

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total	
1.	Honor	26CVH401T	Integrated Approach to Building Services	4	-	-	4	30	40	60	100	3
2.	Honor	26CVH402T	Formwork Engineering	4	-	-	4	30	40	60	100	3
3.	Honor	26CVH501T	Precast Construction Elements and Systems	4	-	-	4	30	40	60	100	3
4.	Honor	26CVH601T	Building Information Modeling	2	-	-	2	15	20	30	50	1.5
5.	Honor	26CVH701T	Building Information Modeling Lab	-	-	4	2	-	25	25	50	-
6.	Honor	26CVH801T	Construction Equipment	4	-	-	4	30	40	60	100	3
<b>Total</b>				<b>18</b>	<b>-</b>	<b>4</b>	<b>20</b>	<b>135</b>	<b>205</b>	<b>295</b>	<b>-</b>	<b>-</b>

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