

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangam, Machhe, Belagavi-590018



Scheme of Teaching and Examinations 2025

Outcome-Based Education (OBE) and Choice-Based Credit System (CBCS)
(Effective from the academic year 2026-27)

B.E. in Civil and Infrastructure Engineering, Scheme of Teaching and Examinations 2025 Outcome-Based Education (OBE) and Choice-Based Credit System (CBCS) (Effective from the academic year 2026-27)															
III SEMESTER															
Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)		Teaching & Learning Scheme				Examination				Credits	
						CI		LI	TW & SL	# TH/S	Duration in	CIE Marks	SEE Marks		Total Marks
						L	T	P	SL						
1	ASC/PCC	1MATCV301	Probability and Statistics	TD /PSB: Mathematics / Specific department		42	2	0	50	120	3	50	50	100	4
2	IPCC	1BCV302	Fluid Mechanics and Hydraulic Machinery	TD/PSB-CV/IF		42	0	2	50	120	3	50	50	100	4
3	PCC	1BCV303	Solid Mechanics	TD/PSB-CV/IF		42	2	0	50	120	3	50	50	100	4
4	PCC	1BCV304	Building Materials and Construction Methods	TD/PSB-CV/CV		42	0	0	48	90	3	50	50	100	3
5	PCC	1BCV305	Engineering Geology for Infrastructure Projects	TD/PSB-CV/CV		42	0	0	48	90	3	50	50	100	3
6	PCCL	1BCVL306	Auto CAD and 3D Modelling of Buildings	TD/PSB-CV/CV		0	0	2	2	30	2	50	50	100	1
7	AEC	1BCVL307x	Ability Enhancement Course Laboratory**	TD/PSB-CV/IF		0	0	2	2	30	2	50	50	100	1
8	SDC	1BCP308	Community Project (Project-Based Learning) / Societal Project	Any Department/ Respective Engineering Dept.		0	0	0	30	30	2	50	50	100	1
9	NCMC	1BNSS309	National Service Scheme (NSS)	Campus	NSS coordinator	0	0	0	28	28	--	100	---	100	PP
		1BPE309	Physical Education (PE) (Sports and Athletics)												
		1BYOG309	Yoga												
		1BMUK309	Music												
Total												500	400	900	21
10	NCMC	1BMATDIP310	Mathematics course for Lateral Entry Students	TD- Maths/PSB -Online VTU		14	0	0	14	28	3	100	---	100	PP
Total										686	24	600	400	1000	21

TH/S- Total Hours per Semester, TW & SL- Term Work & Self Learning

Ability Enhancement Course (Laboratory) 1BCVL307x			
1BCVL307A	MATLAB & Spreadsheet Applications for Civil Engineering	1BCVL307C	Python Programming Lab for Civil Engineers
1BCVL307B	Augmented Reality (AR) and Virtual Reality (VR) Laboratory in Civil Engineering	1BCVL307D	Engineering Geology and Soil Identifications Lab
** The course 1BXXL307 – Ability Enhancement Course Laboratory can be offered either as a single compulsory course. Alternatively, the course 1BXXL307 – Ability Enhancement Course Laboratory shall be offered as multiple elective options under the course codes 1BXXL307x (where x = A, B, C, D). Note to Chairpersons: If only one course is selected, the title of the course may please be entered at serial number 7 of the Scheme of Teaching and Examinations and the above table along with this row shall be deleted. In case, multiple courses are selected the above table shall be filled with the course titles and this row shall be deleted.			

**B.E. in Civil and Infrastructure Engineering,
Scheme of Teaching and Examinations-2025**

Outcome-Based Education (OBE) and Choice-Based Credit System (CBCS) (Effective from the academic year 2026-27)

IV SEMESTER															
Sl. No	Course and Course Code		Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)		Teaching & Learning Scheme					Examination			Credits	
						CI		LI	# TW & SL	TH/S	Duration in	CIE Marks	SEE Marks		Total Marks
						L	T	P							
1	PCC	1BCV401	Surveying and Geospatial Techniques for Infrastructure Projects	TD/PSB-IF/IF		42	0	0	48	90	3	50	50	100	3
2	IPCC	1BCV402	Water Supply and Sanitary Engineering	TD/PSB-CV/IF		42	0	2	50	120	3	50	50	100	4
3	PCC	1BCV403	Analysis of Structures	TD/PSB-CV/IF		42	2	0	50	120	3	50	50	100	4
4	PCC	1BCV404	Building Information Modelling (BIM)	TD/PSB-CV/IF		42	0	0	48	90	3	50	50	100	3
5	PCCL	1BCVL405	Surveying and Geospatial Engineering Laboratory	TD/PSB-CV/IF		0	0	2	02	30	2	50	50	100	1
6	AEC	1BCVL406X	Ability Enhancement Course Laboratory**	TD/PSB-CV/IF		0	0	2	02	30	2	50	50	100	1
7	BSC	1BCV407	Biology for Civil and Infrastructure Engineers	TD/PSB-CV/IF		28	0	0	32	60	3	50	50	100	2
8	SDC	1BEP408	Environmental Science Project	TD/PSB-CV/IF		0	0	0	30	30	3	50	50	100	1
9	PCC	1BCV409	Concrete Technology	TD/PSB-CV/IF		42	0	0	48	90	3	50	50	100	3
10	NCMC	1BNSK409	National Service Scheme (NSS)	Campus	NSS coordinator	0	0	0	28	28	--	100	---	100	PP
		1BPEK409	Physical Education (PE) (Sports and Athletics)		Physical Education Director										
		1BYOK409	Yoga		Yoga Teacher										
		1BMUS409	Music		Music Teacher										
Total										598		550	450	1000	22
11	NCMC	1BMATDIP410	Mathematics course for Lateral Entry Students	TD- Maths/CIE-VTU Online		14	0	0	14	28	--	100	--	100	PP
Total										626	25	650	450	1100	22
	Ability Enhancement Course (Laboratory) 1BCVL406x														
1BCVL406A		AI and Data-Driven Civil and Infrastructure Engineering Laboratory			1BCVL406C		Intelligent Drone Surveying and Mapping Lab for Infrastructure								

1BCVL406B	Water Distribution Network Modelling with EPANET Lab	1BCVL406D	Basic Construction Materials Testing Laboratory
# TH/S- Total Hours per Semester, TW & SL- Term Work & Self Learning.			
** The course 1BXXL406x – Ability Enhancement Course Laboratory can be offered either as a single compulsory course. Alternatively, the Ability Enhancement Course Laboratory course can be offered with multiple elective options under the course codes 1BXXL406x (where $x = A, B, C, D$). Note to Chairpersons: If only one course is selected, the title of the course may please be entered at serial number 6 of the Scheme of Teaching and Examinations and the above table along with this row shall be deleted. In case, multiple courses are selected the above table shall be filled with the course titles and this row shall be deleted.			