



Bhartiya Vidya Bhavan's
Sardar Patel College of Engineering
2025-26



B. Tech.
(Civil Engineering)
Sem. VII & VIII
Course Credit System Regulation 2022

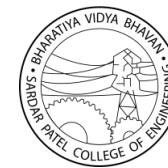


Scheme for Final Year B.Tech In Civil Engineering, (Semester-VII) R22 Academic Year 2025-26

Sr. No.	Course Name	Code	Course Plan per Week (Hrs.)				Credits	In semester Evaluation			End Semester Evaluation		End semester weightage %	Term work/ Practical	Total Points
			L	P	T	SL		Mid Sem Exam (Points)	Mid Sem Time (Hrs)	IE	Points	Time (Hrs.)			
Core Courses															
1	Design of Concrete Structures	PC-BTC701	3	0	1	4.5	4	30	1.5	10	100	3	60%	25	125
2	Engineering Economics, Estimation, and Costing	PC-BTC702	3	0	1	4.5	4	30	1.5	10	100	3	60%	25	125
3	#Professional Elective III	PE-BTCxxx	3	0	0	3.5	3	30	1.5	10	100	3	60%	0	100
4	#Professional Elective IV	PE-BTCxxx	3	0	0	3.5	3	30	1.5	10	100	3	60%	0	100
5	#Open Elective II	OE-BTCxxx	3	0	0	3.5	3	30	1.5	10	100	3	60%	0	100
6	Project-Stage II	PR-BTC701	2*+10 ^s				4	One In Sem Evaluation. and one End Sem. Evaluation					100	100	
Online Courses (Note 4)															
7	#Online Course	OL-BTCxxx	3	0	0	0		0	0		0	0	0	0	0
Value Added Courses (Notes 6 and 7)															
8	#Value Added Technical/ Non-Technical Courses	VA-BTCxxx	3	0	0	0		0	0		0	0	0	0	0
TOTAL			17		2	19.5	21								

IE: Internal Evaluation

#List of courses to be announced at start of the year

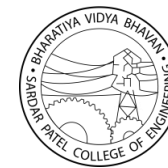


Professional Elective III

Specialization	Sr. No.	Code	Elective
Structures	1	PE-BTC721	Advanced Structural Analysis
	2	PE-BTC722	Finite Element Analysis
	3	PE-BTC723	Advanced Design of Steel Structures
Water Resources	4	PE-BTC731	Surface Hydrology
Environmental Engg.	5	PE-BTC741	Water and Air Quality Modelling
	6	PE-BTC743	Industrial Wastewater treatment
Construction Management	7	PE-BTC751	Valuation and Value Engineering
	8	PE-BTC752	Contracts Management
Transportation	9	PE-BTC761	Pavement Design & Construction
Geotechnical Engineering	10	PE-BTC771	Advanced Foundation Engineering
	11	PE-BTC772	Rock Mechanics

Professional Elective IV

Specialization	Sr. No.	Code	Elective
Structures	1	PE-BTC724	Prestressed Concrete
	2	PE-BTC725	Earthquake Engineering
Water Resources	3	PE-BTC732	Hydraulic Modelling
Environmental Engg.	4	PE-BTC742	Sustainable Engineering and technology
Construction Management	6	PE-BTC753	Engineering risk and uncertainty
	7	PE-BTC754	Infrastructure Planning and Management
	8	PE BTC755	Risk and Value management
Geotechnical Engineering	9	PE-BTC773	Ground Improvement Techniques



Open Elective-II

Sr. No.	Code	Elective Course
1	OE-BTC711	Economic Policies of India
2	OE-BTC712	Entrepreneurship, Innovation and Design Thinking
3	OE-BTC713	Disaster Management and Preparedness
4	OE-BTC714	Engineering System and Development
5	OE-BTE701	Computer network
6	OE-BTE702	Engineering economics
7	OE-BTE703	Embedded system
8	OE-BTE704	Internet of things
9	OE-BTM714	Introduction to Micro-Electro-Mechanical Systems (MEMS)
10	OE-BTM715	Solar and Wind Technology
11	OE-BTM717	Introduction to Augmented Reality
12	OE-BTM718	Fundamental of Artificial Intelligence (AI) and Machine Learning

***For OE BTC712 Entrepreneurship, Innovation and Design Thinking : End Semester would be 50 marks of presentation and report (conducted before hand) and 50 marks for the final written end semester paper (as per ICC and BoS)**



BHARTIYA VIDYA BHAVAN'S
SARDAR PATEL COLLEGE OF ENGINEERING
Munshi Nagar Andheri (W)



Scheme for Final Year B. Tech. in Civil Engineering (Semester - VIII)
Academic Year 2025-26

Sr. No.	Course Name	Code	Course Plan per Week (Hrs.)			Credits	In semester Evaluation (Points)			End Semester Evaluation (Points)		End semester weightage (%)	Term work/ Practical (Note 3)	Total Points
			L	P	T		T-I	T-II	IE	Points	Time (Hrs.)			
Open Elective Course (Note 8)														
1	#Open Elective –III (Refer Open Elective –III Table and Note 8)	OE-BTCxxx	SWAYAM / NPTEL Course of 12 weeks			3	15	15	10	100	3	60	-	100
Internship														
2	External / Internal Internship	PR-BTC801				9	100			200	100		300	
	TOTAL					12								

Open Elective-III

Sr. No.	Code	Elective
1	OE-BTC812	Human Resource Development & Organizational Behaviour
2	OE-BTC815*	Environmental Impact Assessment
3	OE-BTE801	Robotics
4	OE-BTE802	Power Plant Engineering
5	OE-BTE803	Electrical engineering materials
6	OE-BTE804	Medical Electronics
7	OE-BTE805	Image processing
8	OE-BTM712	Introduction to Research Methodology
9	OE-BTM719	Value Engineering

*OE BTC815 End Semester will be 50 marks and 50 marks will be for a mini-project presentation and report as per ICC conducted and BOS