



SCHOOL OF ENGINEERING

AMBI, TALEGAON, PUNE

B. TECH PROGRAMME FOR ACADEMIC YEAR 2020-21

BATCH 2020 - 2024

Department of Civil Engineering

SUBJECT BASKET



D Y PATIL UNIVERSITY

PUNE

FIRST SEMESTER	SECOND SEMESTER	THIRD SEMESTER	FOURTH SEMESTER
<i>B. Tech</i>	<i>B. Tech</i>	<i>B. Tech</i>	<i>B. Tech</i>
Engineering Mathematics-I	Engineering Mathematics-II	Engineering Mathematics-III	Structural Analysis
Engineering Physics / Engineering Chemistry	Engineering Physics / Engineering Chemistry	Strength of Materials	Design of Steel Structures
Engineering Graphics	Engineering Mechanics	Architectural Planning and Design of Buildings	Fluid Mechanics
Basic Electrical Engineering	C PROGRAMMING	Soil Mechanics	Highway & Railway Engineering
Basic Workshop Practices - I	English for Engineers	Surveying	Concrete Technology
Induction	Basic Workshop Practices - II	CAD for Civil Engineers	Analysis & Design by Software-I
	Environmental Studies	Soft Skills	Essence of Indian Traditional Knowledge(Non-credit)
		Indian Constitution(Non- credit)	



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FIFTH SEMESTER	SIXTH SEMESTER	SEVENTH SEMESTER	EIGHTH SEMESTER
B. Tech	B. Tech	B. Tech	B. Tech
Quantity Surveying, Contracts and Tendering	Advanced Design of RC Structures	Bridge and Tunnel Engineering	Internship
Foundation Engineering	Project Management and Engineering Economics	Stream Elective I	Project Work
Design of RC Structures	Dams and Hydraulic Structures	Stream Elective II	
Water Resources Engineering	Technical Elective I	Technical Elective II	
Environmental Engineering	Applications of Project Management Software	ERP for Civil Engineers	
Analysis & Design by Software-II	Open Elective I	Open Elective 2	
Business Communication and Ethics	Mini Project I	Mini Project II	

**The School/College has all the rights to revise the syllabus/curriculum at any time.*

List of Technical and Open Electives

<p>Technical Elective I(CVLTE-001)</p>	<ol style="list-style-type: none"> 1.Total Quality Management and MIS 2.Urban Planning and Smart cities 3.Coastal Engineering 4.Plumbing Engineering 5.Advanced Construction Techniques 6. Construction Equipment Management
<p>Open Elective I(OEC-001)</p>	<ol style="list-style-type: none"> 1.Project Management 2.Business Economics and Financial Planning 3.Cyber and Data Laws 4.Intellectual Property Rights 5.Remote Sensing and GIS
<p>Technical Elective II(CVL-TE002)</p>	<ol style="list-style-type: none"> 1. QAQC for Civil Engineers 2.Statistical Analysis and computational Methods in Civil engineering 3.System Approach in Civil Engineering 4.Hydropower Engineering 5.Air Pollution and control
<p>Open Elective II(OEC-002)</p>	<ol style="list-style-type: none"> 1.IT for Healthcare 2.Enterpreneurship and Business Startup 3.Non-Government Organization Management 4.Essential of Industrial Computing 5.Disaster Management

Program-wise List of Stream Electives

Program	Stream Elective I	Stream Elective II
Civil Engineering (Generic)	CVL-SE001 Construction Management	CVL-SE002 Integrated Water Resources and Planning
	CVL-SE001 Industrial Waste Water Treatment	CVL-SE002 Prestressed Concrete
Construction Management	CVL-CM-SE001 Green Building Technology	CVL-CM-SE002 Material Management
	CVL-CM-SE001 Construction Safety and Management	CVL-CM-SE002 Estimation and Valuation
Structural Engineering	CVL-STR-SE001 NDT and Structural Audit	CVL-STR-SE002 QAQC for Structural Engineers
	CVL-STR-SE001 Earthquake Engineering	CVL-STR-SE002 Advanced Design of Steel Structures
Transportation Engineering	CVL-TR-SE001 Infrastructure Engineering	CVL-TR-SE002 Transportation Safety
	CVL-TR-SE001 Environment Impact Assessment	CVL-TR-SE002 Transportation Economics