

	Holy-wood Academy, Kolhapur's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE Sanjeevan Knowledge City, Somwar Peth- Injole, Panhala, Tal. Panhala, Dist. Kolhapur Pin- 416 201. (Maharashtra) Phone : 0231 - 2686600, 21 Fax : 0231 - 2686629
	■ Approved By AICTE - New Delhi ■ Recognized by Govt. of Maharashtra & DTE ■ Affiliated to DBATU Lonere-Raigad Website : www.seti.edu.in Email : principal@seti.edu.in / office@seti.edu.in EN 6315

Department of civil engineering

SUBJECT	COURSE OUTCOMES
Mathematic III (BTBS301)	CO 1: students will able to formulae and solve mathematical model of civil engineering phenomenon in field of structure, fluid mechanic and soil mechanic
Mechanics of solids (BTCVES 302)	CO 1: Perform the stress strain analysis CO 2: Draw force distribution diagram for members and determinate beams CO 3: Visualize force deformation behaviour of bodies CO 4: Perform Failure analysis
BUILDING CONSTRUCTION (BTCVC 303)	CO1: Understand types of masonry structures. CO2: Understand composition of concrete and effect of various parameters affecting strength. CO3: Comprehend components of building and there purposes. CO4: Comprehend the precast and pre-engineered building construction techniques.
Hydraulics (BTCVC304)	CO 1: Calibrate the various flow measuring devices. CO 2: Determine the properties of fluid and pressure and their measurement. CO 3: Understand fundamentals of pipe flow, losses in pipe and analysis of pipe network. CO 4: Visualize fluid flow phenomena observed in Civil Engineering systems
Surveying (BTCVC305)	CO 1: Perform measurements in linear/angular methods. CO 2: Perform plane table surveying in general terrain. CO 3: Know the basics of leveling and Theodolite survey in elevation and angular measurements.



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SUBJECT	COURSE OUTCOMES
Building Planning and Drawing (BTCVC 401)	CO1: To plan buildings considering various principles of planning and bye laws of governing body. CO2: Comprehend various utility requirements in buildings CO3: Understand various techniques for good acoustics
Environmental Engineering (BTCVC 402)	CO1: Apply the water treatment concept and methods. CO2: Prepare basic process designs of water and wastewater treatment plants. CO3: Apply the wastewater treatment concept and methods. CO4: Apply the solid waste management concepts.
Structural Mechanics– I (BTCVC 403)	CO1: Describe the concept of structural analysis, degree of indeterminacy. CO2: Calculate slopes and deflection at various locations for different types of beams. CO3: Identify determinate and indeterminate trusses and calculate forces in the members of trusses Perform the distribution of the moments the in continuous beam and frame
Hydraulics II (BTCVC 405)	CO 1: Design open channel section in most economical way CO 2 : Know about the non-uniform flows in open channel and the characteristics of hydraulic jump CO 3: Understand application of momentum principle of impact of jets on plane
Engineering Geology (BTCVC 406)	CO1 : Recognize different land forms which are formed by various geological agents CO 2: Identify origine texture and structure of various rocks and physical properties of minerals CO 3 : Emphasize distinct geological structure which have influence on civil engineering structure CO 4: understand how various geological conditions affect the design parameters of structure



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Design of Steel Structure (BTCVC 501)	CO 1: Identify and compute the design loads and stresses developed in steel member. CO 2 : analyze and design various connections and identify the potential failure mode CO 3 : Analyze and design various tension, compression and flexure members. CO 4 : understand provision in relevant BIS codes
Structural Mechanics-II (BTCVC 502)	Course Outcomes: On completion of the course, the students will be able to: CO1: Have a basic understanding of matrix method of analysis and will be able to analyze the determinant structure. CO2: Have a basic understanding of the principles and concepts related to finite difference and finite element methods CO3: Have a basic understanding of concept of influence line
SOIL MECHANICS (BTCVC 503)	CO1: Understand different soil properties and behaviour CO2: Understand stresses in soil and permeability and seepage aspects. CO3: Develop ability to take up soil design of various foundations.
Transportation engineering (BTCVC 505)	CO 1: Comprehend various types of transportation systems and their history of the development CO2: Comprehend to various types of pavements CO3: Design the pavements by considering various aspects associated with traffic safety measures.



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Design of Concrete Structures – I (BTCVC 601)	CO1: Comprehend to the various design philosophies used for design of reinforced concrete. CO2: Analyze and design the reinforced concrete slab using limit state and working state method. CO2: Analyze and design the reinforced concrete beam using limit state and working state method. CO3: Analyze and design the reinforced concrete column using limit state and working state method
FOUNDATION ENGINEERING (BTCVC 602)	CO 1: To predict soil behaviour under the application of loads and come up with appropriate solutions to foundation design queries. CO2: Analyze the stability of slope by theoretical and graphical methods. CO3: Analyze the results of in-situ tests and transform measurements and associated uncertainties into relevant design parameters. CO4: Synthesize the concepts of allowable stress design, appropriate factors of safety, margin of safety, and reliability
Concrete Technology (BTCVC 603)	CO1: Understand the various types and properties of ingredients of concrete. CO2: Understand effect of admixtures on the behavior of the fresh and hardened concrete. CO3: Formulate concrete design mix for various grades of concrete.
Project Management (BTCVC604)	CO 1. Understand various steps in project Management, different types of charts. CO 2. Construct network by using CPM and PERT method. CO 3. Determine the optimum duration of project with the help of various time estimates. CO 4. Know the concept of engineering economics, economic comparisons, and linear break even analysis problems. CO 5. Understand the concept of total quality Management including Juran and Deming's philosophy
Waste Water Treatments (BTCVE 605A)	CO1: Determine the sewage characteristics and design various sewage treatment plants. CO2: Understand municipal water and wastewater treatment system design and operation. CO3: Apply environmental treatment technologies and design processes for treatment of industrial waste water. CO4: Understand the rural sanitation schemes.
BUILDING PLANNING & DESIGN (BTCVC 606)	CO1: To plan buildings considering various principles of planning and bye laws of governing body. CO2: Comprehend various utility requirements in buildings CO3: Understand various techniques for good acoustics.



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Design of Concrete Structures II (BTCVC 701)	CO1: Able to identify the behavior, analyze and design of the beam sections subjected to torsion. CO2: Able to analyze and design of axially and eccentrically loaded column and construct the interaction diagram for them. CO3: Understand various concepts, systems and losses in pre-stressing. CO4: Able to analyze and design the rectangular and symmetrical I-section pre-stressed beam/girders
Infrastructure Engineering (BTCVC702)	CO 1 : Know about the basics and design of various components of railway engineering CO 2 : Understand the types and functions of tracks, junctions and railway stations. CO 3 : Know about the aircraft characteristics, planning and components of airport CO 4: Understand the types and components of docks and harbors.
Water Resources Engineering (BTCVC 703)	CO 1: Understand need of Irrigation in India and water requirement as per farming practice in India. CO 2: Understand various irrigation structures and schemes. CO 3: Develop basis for design of irrigation schemes
Professional Practices (BTCVC 704)	CO 1: To discuss introduce methods of quantity surveying, costing, and valuation. CO 2: To facilitate students with concepts of costing involved in infrastructures. CO 3: To make students familiar with process involved during tendering & contracting.
Construction Techniques (BTCVE 705A)	CO 1: To study different methods of construction to successfully achieve the structural design with recommended specifications. CO 2: To involve the application of scientific and technological principles of planning, analysis, design and management to construction technology
Introduction to Earthquake Engineering (BTCVC 706D)	CO1: Capture complexities in earthquake resistant design of structures CO2: Grasp Nature of earthquake vibration and associated forces on structures CO3: Understand importance of designing the building to targeted seismic performance