

H.K.E. Society's S.L.N College of Engineering

UG Course Outcomes for 2022-23 Courses

Department of Civil Engineering

Table 1: Course Outcomes

Class	CIVIL ENGINEERING
Semester	I
Course Name	Mathematics - I for Civil Engineering
Course Code	BMATS101

Course	Course Outcome
C01	Apply the knowledge of calculus to solve problems related to polar curves
C02	Analyze the solution of linear and nonlinear ordinary differential equations
C03	Get acquainted and to apply modular arithmetic to computer algorithms
C04	Make use of matrix theory for solving the system of linear equations and compute
C05	Familiarize with modern mathematical tools namely MATHEMATICA/MATLAB/

Table 1: Course Outcomes

Class	CIVIL ENGINEERING
Semester	I
Course Name	Chemistry for Civil Engineering stream
Course Code	BCHEC102

Course	Course Outcome
C01	Identify the terms processes involved in scientific and engineering an
C02	Explain the phenomena of chemistry to describe the methods of engineering processes
C03	Solve for the problems in chemistry that are pertinent in engineering applications
C04	Apply the basic concepts of chemistry to explain the chemical properties and processes
C05	Analyzes processes associated with chemical substances in properties and multidisciplinary situation

Table 1: Course Outcomes

Class	CIVIL ENGINEERING
Semester	I
Course Name	Computer Aided Engineering Drawing
Course Code	BCEDK103

Course	Course Outcome
C01	Draw and communicate the objects with definite shape and dimensions
C02	Recognize and Draw the shape and size of objects through different views
C03	Develop the lateral surfaces of the object
C04	Create a Drawing views using CAD software.
C05	Identify the interdisciplinary engineering components or systems through its graphical representation.

Table 1: Course Outcomes

Class	CIVIL ENGINEERING
Semester	I
Course Name	Introduction to C Programming
Course Code	BESCK104E

Course	Course Outcome
C01	Elucidate the basic architecture and functionalities of a Computer
C02	Apply programming constructs of C language to solve the real-world problems
C03	Explore user-defined data structures like arrays, structures and pointers in implementing solutions to problems

C04	Design and Develop Solutions to problems using modular programming constructs such as functions and procedures
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	I
Course Name	Waste Management
Course Code	BETCK105F
Course	Course Outcome
C01	Apply the basics of solid waste management towards sustainable development
C02	Apply technologies to process waste and dispose the same
C03	Design working models to convert waste to energy
C04	Identify and classify hazardous waste and manage the hazard
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	I
Course Name	Communicative English
Course Code	BENCK106
Course	Course Outcome
C01	Understand and apply the Fundamentals of Communication Skills in their
C02	Identify the nuances of phonetics, intonation and enhance pronunciation skills.
C03	To impart basic English grammar and essentials of language skills as per present
C04	Understand and use all types of English vocabulary and language proficiency
C05	Adopt the Techniques of Information Transfer through presentation.
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	I
Course Name	Indian Constitution
Course Code	BICOK107
Course	Course Outcome
C01	Analyse the basic structure of Indian Constitution.
C02	Remember their Fundamental Rights, DPSP's and Fundamental Duties (FD's) of our
C03	Know about our Union Government, political structure & codes, procedures
C04	Understand our State Executive & Elections system of India.
C05	Remember the Amendments and Emergency Provisions, other important provisions given by the constitution
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	I
Course Name	Scientific Foundation for Health
Course Code	BSFHK158
Course	Course Outcome
C01	To understand and analyse about Health and wellness (and its Beliefs) & It's balance for positive mindset.
C02	Develop the healthy lifestyles for good health for their better future
C03	Build a Healthy and caring relationships to meet the requirements of good/social/p
C04	To learn about Avoiding risks and harmful habits in their campus and outside the campus for their bright future.

C05	Prevent and fight against harmful diseases for good health through positive mindset
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	II
Course Name	Mathematics – II for Civil Engineering
Course Code	BMATC201
Course	Course Outcome
C01	Apply the concept of change of order of integration and variables to evaluate
C02	Understand the applications of vector calculus refer to solenoidal, and irrotational
C03	Demonstrate the idea of Linear dependence and independence of sets in the vector
C04	Apply the knowledge of numerical methods in analysing the discrete data and
C05	Get familiarize with modern mathematical tools namely MATHEMATICA/ MATLAB
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	II
Course Name	PHYSICS FOR CIVIL ENGINEERING
Course Code	BPHYC202
Course	Course Outcome
C01	Elucidate the concepts in oscillations, waves, elasticity and material failures
C02	Summarize concepts of acoustics in buildings and explain the concepts in radiation and
C03	Discuss the principles photonic devices and their application relevant to civil engineering
C04	Describe the various natural hazards and safety precautions.
C05	Practice working in groups to conduct experiments in physics and perform precise and f
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	II
Course Name	Engineering Mechanics
Course Code	BCIVC203
Course	Course Outcome
C01	Compute the resultant of a force system and resolution of a force
C02	Comprehend the action for forces, moments, and other types of loads on rigid bodies
C03	Analyse the frictional resistance offered by different planes
C04	Locate the centroid and compute the moment of inertia of sections
C05	Analyze the bodies in motion
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	II
Course Name	Introduction to Mechanical Engineering
Course Code	BESCK204D
Course	Course Outcome
C01	Explain the concepts of Role of Mechanical Engineering and Energy sources.
C02	Describe the Machine Tool Operations and advanced Manufacturing process.
C03	Explain the Working Principle of IC engines and EV vehicles.
C04	Discuss the Properties of Common Engineering Materials and various Metal Joining Proc
C05	Explain the Concepts of Mechatronics, Robotics and Automation in IoT
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	II

Course Name	Introduction to Python Programming
Course Code	BPLCK205B
Course	Course Outcome
C01	Demonstrate proficiency in handling loops and creation of functions.
C02	Identify the methods to create and manipulate lists, tuples and dictionaries.
C03	Develop programs for string processing and file organization
C04	Interpret the concepts of Object-Oriented Programming as used in Python
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	II
Course Name	Professional Writing Skills in Engineering
Course Code	BPWSK206
Course	Course Outcome
C01	To understand and identify the Common Errors in Writing and Speaking.
C02	To Achieve better Technical writing and Presentation skills
C03	To read Technical proposals properly and make them to Write good technical reports.
C04	Acquire Employment and Workplace communication skills.
C05	To learn about Techniques of Information Transfer through presentation in different lev
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	II
Course Name	Innovation and Design Thinking
Course Code	BIDTK258
Course	Course Outcome
C01	Appreciate various design process procedure
C02	Generate and develop design ideas through different technique
C03	Identify the significance of reverse Engineering to Understand products
C04	Draw technical drawing for design ideas
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	III
Course Name	TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUES
Course Code	21MAT31
Course	Course Outcome
C01	To solve ordinary differential equations using Laplace transform.
C02	Demonstrate Fourier series to study the behaviour of periodic functions and their
C03	To use Fourier transforms to analyze problems involving continuous-time signals
C04	To solve mathematical models represented by initial or boundary value problems
C05	Determine the extremals of functionals using calculus of variations and solve in
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	III
Course Name	Geodetic Engineering
Course Code	21CV32
Course	Course Outcome
C01	Execute survey using compass and plane table
C02	Find the level of ground surface and Calculation of area and volumes
C03	Operate theodolite for field execution

C04	Estimate the capacity of reservoir
C05	Interpret satellite imageries
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	III
Course Name	Strength of Materials
Course Code	21CV33
Course	Course Outcome
C01	Evaluate the behaviour when a solid material is subjected to various types of forces
C02	Estimate the forces developed and draw schematic diagram for stresses, forces,
C03	Evaluate the behaviour when a solid material is subjected to Torque and internal fluid
C04	Distinguish the behaviour of short and long column and calculate load at failure &
C05	Examine and Evaluate the mechanical properties of various materials under different lo:
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	III
Course Name	Earth Resources and Engineering
Course Code	21CV34
Course	Course Outcome
C01	Apply geological knowledge in different civil engineering practice
C02	Students will acquire knowledge on durability and competence of foundation rocks,
C03	competent enough to provide services for the safety, stability, economy and life of the
C04	Able to solve various issues related to ground water exploration, build up dams,
C05	Intelligent enough to apply GIS, GPS and remote sensing as a latest tool in different
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	III
Course Name	Computer Aided Building Planning and Drawing
Course Code	21CVL35
Course	Course Outcome
C01	Prepare, read and interpret the drawings in a professional set up.
C02	Know the procedures of submission of drawings and Develop working and submission d
C03	Plan and design of residential or public building as per the given requirements.
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	III
Course Name	Computer Aided Building Planning and Drawing
Course Code	21CVL35
Course	Course Outcome
C01	Understand social responsibility
C02	Practice sustainability and creativity
C03	Showcase planning and organizational skills
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	III
Course Name	Constitution of India and Professional Ethics
Course Code	21CIP37
Course	Course Outcome

C01	Have constitutional knowledge and legal literacy.
C02	Understand Engineering and Professional ethics and responsibilities of Engineers
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	III
Course Name	Personality Development and Soft Skills
Course Code	21CV383
Course	Course Outcome
C01	Develop effective communication skills (spoken and written) and effective
C02	Conduct effective business correspondence and prepare business reports which produc
C03	Develop an understanding of and practice personal and professional responsibility.
C04	Function effectively in multi-disciplinary and heterogeneous teams through the
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	III
Course Name	Additional Mathematics
Course Code	21MATDIP 31
Course	Course Outcome
C01	Use derivatives and partial derivatives to calculate the rate of change of
C02	Apply concepts of complex numbers and vector algebra to analyse the problems
C03	Analyse position, velocity and acceleration in two and three dimensions of vector-
C04	Learn techniques of integration including the evaluation of double and triple
C05	Identify and solve first-order ordinary differential equations.
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	IV
Course Name	Complex Analysis, Probability and Statistical Methods
Course Code	21MAT41
Course	Course Outcome
C01	Use the concepts of an analytic function and complex potentials to solve the
C02	Obtain series solutions of ordinary differential equation
C03	Make use of the correlation and regression analysis to fit a suitable mathematical
C04	Apply discrete and continuous probability distributions in analysing the
C05	Construct joint probability distributions and demonstrate the validity of testing
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	IV
Course Name	Fluid Mechanics and Hydraulics
Course Code	21CV42
Course	Course Outcome
C01	Understand fundamental properties of fluids and solve problems on Hydrostatics
C02	Apply Principles of Mathematics to represent Kinematics and Bernoulli's
C03	Compute discharge through pipes, notches and weirs
C04	Design of open channels of various cross sections
C05	Design of turbines for the given data and understand their operation
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	IV
Course Name	Public Health Engineering

Course Code	21CV43
Course	Course Outcome
C01	Estimate average and peak water demand for a community
C02	Evaluate water quality and environmental significance of various parameters and
C03	Design the different units of water treatment plant
C04	Understand and design the various units of wastewater treatment plant
C05	Acquire capability to conduct experiments and estimate the concentration of
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	IV
Course Name	Analysis of Structures
Course Code	21CV44
Course	Course Outcome
C01	Evaluate slope and deflections in beams using geometrical methods.
C02	Determine deflections in trusses and frames using energy principles.
C03	Analyse arches and cables for stress resultants.
C04	Apply slope deflection method in analysing indeterminate structures and construct
C05	Analyse continuous beams, frames and trusses using stiffness matrix method of
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	IV
Course Name	Biology for Engineers
Course Code	21BE45
Course	Course Outcome
C01	Elucidate the basic biological concepts via relevant industrial applications and
C02	Evaluate the principles of design and development, for exploring novel
C03	Corroborate the concepts of biomimetics for specific requirements
C04	Think critically towards exploring innovative biobased solutions for socially
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	IV
Course Name	Earth Resources and Engineering Laboratory
Course Code	21CVL46
Course	Course Outcome
C01	Comprehend the relations between minerals and rocks based on their
C02	Assessthe suitability of materials used in building construction
C03	Differentiate geological investigations necessary for the construction of dams,
C04	Describe the groundwater investigation using resistivity methods
C05	Understand the applications of Geospatial technology in Civil Engineering
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	IV
Course Name	Additional Mathematics-I
Course Code	21MATDIP31
Course	Course Outcome
C01	Use derivatives and partial derivatives to calculate the rate of change of
C02	Apply concepts of complex numbers and vector algebra to analyse the problems
C03	Analyse position, velocity and acceleration in two and three dimensions of vector-

C04	Learn techniques of integration including the evaluation of double and triple
C05	Identify and solve first-order ordinary differential equations.
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	V
Course Name	Construction Management and Entrepreneurship
Course Code	18CV51
Course	Course Outcome
C01	Prepare a project plan based on requirements and prepare schedule of a project by
C02	Understand labour output, equipment efficiency to allocate resources required for
C03	Analyze the economics of alternatives and evaluate benefits and profits of a
C04	Establish as an ethical entrepreneur and establish an enterprise utilizing the
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	V
Course Name	Analysis of Indeterminate Structures
Course Code	18CV52
Course	Course Outcome
C01	Determine the moment in indeterminate beams and frames having variable
C02	Determine the moment in indeterminate beams and frames of no sway and sway
C03	Construct the bending moment diagram for beams and frames by Kani's method
C04	Construct the bending moment diagram for beams and frames using flexibility
C05	Analyze the beams and indeterminate frames by system stiffness method
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	V
Course Name	Design of RC Structural Elements
Course Code	18CV53
Course	Course Outcome
C01	Understand the design philosophy and principles.
C02	Solve engineering problems of RC elements subjected to flexure, shear and
C03	Demonstrate the procedural knowledge in designs of RC structural elements such
C04	Owns professional and ethical responsibility
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	V
Course Name	Basic Geotechnical Engineering
Course Code	18CV54
Course	Course Outcome
C01	Ability to plan and execute geotechnical site investigation program for different
C02	Understanding of stress distribution and resulting settlement beneath the loaded
C03	Ability to estimate factor of safety against failure of slopes and to compute lateral
C04	Ability to determine bearing capacity of soil and achieve proficiency in
C05	Capable of estimating load carrying capacity of single and group of piles
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	VI
Course Name	Municipal Wastewater Engineering
Course Code	18CV55

Course	Course Outcome
C01	Select the appropriate sewer appurtenances and materials in sewer network
C02	Design the sewers network and understand the self purification process in flowing
C03	Deisgn the varies physic- chemical treatment units
C04	Design the various biological treatment unit
C05	Design various AOPs and low cost treatment units.
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	V
Course Name	Highway Engineering
Course Code	18CV56
Course	Course Outcome
C01	Acquire the capability of proposing a new alignment or re-alignment of existing
C02	Evaluate the engineering properties of the materials and suggest the suitability of
C03	Design road geometrics, structural components of pavement and drainage.
C04	Evaluate the highway economics by few select methods and also will have a basic
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	V
Course Name	Surveying Practice
Course Code	18CVL57
Course	Course Outcome
C01	Apply the basic principles of engineering surveying and for linear and angular
C02	Comprehendeffectivelyfieldproceduresrequiredforprofessionalsurvey
C03	Use techniques, skills and conventional surveying instruments necessary f o r
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	V
Course Name	Concrete and Highway Materials Laboratory
Course Code	18CVL58
Course	Course Outcome
C01	Able to interpret the experimental results of concrete and highway materials based
C02	Determine the quality and suitability of cement
C03	Design appropriate concrete mix Using Professional codes
C04	Determine strength and quality of concrete
C05	Evaluate the strength of structural elements using NDT techniques
C06	Test the soil for its suitability as sub grade soil for pavements.
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	V
Course Name	Environmental Studies
Course Code	18CIV59
Course	Course Outcome
C01	Understand the principles of ecology and environmental issues that apply to air,
C02	Develop critical thinking and/or observation skills, and apply them to the analysis
C03	Demonstrate ecology knowledge of a complex relationship between biotic and a
C04	Apply their ecological knowledge to illustrate and graph a problem and describe
Table 1: Course Outcomes	

Class	CIVIL ENGINEERING
Semester	VI
Course Name	Design of Steel Structural Elements
Course Code	18CV61
Course	Course Outcome
C01	Possess knowledge of Steel Structures Advantages and Disadvantages of Steel
C02	Understand the Concept of Bolted and Welded connections.
C03	Understand the Concept of Design of compression members, built-up columns and
C04	Understand the Concept of Design of tension members, simple slab base and
C05	Understand the Concept of Design of laterally supported and un-supported steel
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	VI
Course Name	Applied Geotechnical Engineering
Course Code	18CV62
Course	Course Outcome
C01	Ability to plan and execute geotechnical site investigation program for different
C02	Understanding of stress distribution and resulting settlement beneath the loaded
C03	Ability to estimate factor of safety against failure of slopes and to compute lateral
C04	Ability to determine bearing capacity of soil and achieve proficiency in
C05	Capable of estimating load carrying capacity of single and group of piles
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	VI
Course Name	Hydrology and Irrigation Engineering
Course Code	18CV63
Course	Course Outcome
C01	Understand the importance of hydrology and its components
C02	Measure precipitation and analyze the data and analyze the losses in precipitation.
C03	Estimate runoff and develop unit hydrographs.
C04	Find the benefits and ill-effects of irrigation
C05	Find the quantity of irrigation water and frequency of irrigation for various crops
C06	Find the canal capacity, design the canal and compute the reservoir capacity.
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	VI
Course Name	Raiways, Harbour, Tunneling and Airports
Course Code	18CV645
Course	Course Outcome
C01	Acquires capability of choosing alignment and also design geometric aspects of
C02	Suggest and estimate the material quantity required for laying a railway track and
C03	Develop layout plan of airport, harbor, dock and will be able relate the gained
C04	Apply the knowledge gained to conduct surveying, understand the tunneling
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	VI
Course Name	Supply Chain Management
Course Code	18ME653

Course	Course Outcome
C01	Understand the framework and scope of supply chain management.
C02	Build and manage a competitive supply chain using strategies, models, techniques
C03	Plan the demand, inventory and supply and optimize supply chain network
C04	Understand the emerging trends and impact of IT on Supply chain
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	VI
Course Name	Software Application Lab
Course Code	18CVL66
Course	Course Outcome
C01	After studying this course, students will be able to: use software skills in a
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	VI
Course Name	Environmental Engineering Laboratory
Course Code	18CVL67
Course	Course Outcome
C01	Acquire capability to conduct experiments and estimate the concentration of
C02	Compare the result with standards and discuss based on the purpose of analysis.
C03	Determine type of treatment, degree of treatment for water and waste water
C04	Identify the parameter to be analyzed for the student project work in
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	VI
Course Name	Extensive Survey Project
Course Code	18CVEP68
Course	Course Outcome
C01	Apply Surveying knowledge and tools effectively for the projects
C02	Understanding Task environment, Goals, responsibilities, Task focus, working in
C03	Application of individual effectiveness skills in team and organizational context,
C04	Professional etiquettes at workplace, meeting and genera
C05	Establishing trust based relationships in teams & organizational environmen
C06	Orientation towards conflicts in team and organizational environment,
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	VII
Course Name	Quality Surveying and Contract Management
Course Code	18CV71
Course	Course Outcome
C01	Taking out quantities and work out the cost and preparation of abstract for the
C02	Prepare detailed and abstract estimates for various road works, structural works and
C03	Prepare the specifications and analyze the rates for various items of wor
C04	Assess contract and tender documents for various construction work
C05	Prepare valuation reports of buildings.
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	VII
Course Name	Design of RCC and Steel Structures

Course Code	18CV72
Course	Course Outcome
C01	Students will acquire the basic knowledge in design of RCC and Steel Structures
C02	Students will have the ability to follow design procedures as per codal provisions and
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	VII
Course Name	Air Pollution and Control
Course Code	18CV732
Course	Course Outcome
C01	Identify the major sources of air pollution and understand their effects on health and environment
C02	Evaluate the dispersion of air pollutants in the atmosphere and to develop air quality management plans
C03	Ascertain and evaluate sampling techniques for atmospheric and stack pollutants.
C04	Choose and design control techniques for particulate and gaseous emissions
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	VII
Course Name	Design of Hydraulic Structures
Course Code	18CV744
Course	Course Outcome
C01	Check the stability of gravity dams and design the dam
C02	Estimate the quantity of seepage through earth dams
C03	Design spillways and aprons for various diversion works.
C04	Select particular type of canal regulation work for canal network.
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	VII
Course Name	Energy and Environment
Course Code	18ME751
Course	Course Outcome
C01	Understand energy scenario, energy sources and their utilization.
C02	Understand various methods of energy storage, energy management and economic analysis
C03	Analyse the awareness about environment and eco system
C04	Understand the environment pollution along with social issues and acts
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	VII
Course Name	Computer Aided Detailing of Structure
Course Code	18CVL76
Course	Course Outcome
C01	Prepare detailed working drawing
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	VII
Course Name	Geotechnical Engineering Laboratory
Course Code	18CVL77
Course	Course Outcome

C01	Physical and index properties of the soil
C02	Classify based on index properties and field identification
C03	To determine OMC and MDD, plan and assess field compaction program
C04	Shear strength and consolidation parameters to assess strength and deformation characteristics
C05	In-situ shear strength characteristics (SPT-Demonstration)
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	VIII
Course Name	Design of Pre-Stress Concrete
Course Code	18CV81
Course	Course Outcome
C01	Understand the requirement of PSC members for present scenario.
C02	Analyse the stresses encountered in PSC element during transfer and at workin
C03	There will be two full questions (with a maximum of four sub- questions) from each mo
C04	Each full question will have sub- question covering all the topics under a module
C05	The students will have to answer five full questions, selecting one full question from ea
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	VIII
Course Name	Pavement Design
Course Code	18CV825
Course	Course Outcome
C01	Systematically generate and compile required data's for design of pavement (Highway 8
C02	Analyze stress, strain and deflection by boussinesq's, bur mister's and westergaard's the
C03	Design rigid pavement and flexible pavement conforming to IRC58-2002 and IRC37-200:
C04	Evaluate the performance of the pavement and also develops maintenance statement
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	VIII
Course Name	Project Work Phase-II
Course Code	18CVP83
Course	Course Outcome
C01	Describe the project and be able to defend it.
C02	Develop critical thinking and problem solving skills
C03	Learn to use modern tools and techniques.
C04	Communicate effectively and to present ideas clearly and coherently both in written an
C05	Develop skills to work in a team to achieve common goal
C06	Develop skills of project management and finance.
C07	Develop skills of self learning, evaluate their learning and take appropriate actions to im
C08	Prepare them for life-long learning to face the challenges and support the
Table 1: Course Outcomes	
Class	CIVIL ENGINEERING
Semester	VIII
Course Name	Technical Seminar
Course Code	18CVS84
Course	Course Outcome
C01	Develop knowledge in the field of Civil Engineering and other disciplines through independent learning and collaborative study.

C02	Identify and discuss the current, real-time issues and challenges in engineering & techn
C03	Develop written and oral communication skills
C04	Explore concepts in larger diverse social and academic contexts.
C05	Apply principles of ethics and respect in interaction with others.
C06	Develop the skills to enable life-long learning