R.M.K. ENGINEERING COLLEGE

(An Autonomous Institution)

RSM Nagar, Kavaraipettai – 601 206

Department of Civil Engineering

Course Outcomes - ODD Semester 2023-24

Sl. No.	Semester	Theory / Practical	Course Code / Course Name
1	3	Theory	22MA303- Fourier Analysis and Partial Differential Equations
2	3	Theory	22CE301-Mechanics of Materials (Lab Integrated)
3	3	Theory	22CE302-Fluid Mechanics (Lab Integrated)
4	3	Theory	22CE303- Concrete Technology and Construction Practices (Lab Integrated)
5	3	Theory	22CE304- Engineering Surveying (Lab Integrated)
6	3	Theory	22GE201- Tamils and Technology
7	3	Practical	22CE305- Computer aided Building drawing
8	3	Practical	22ME311- Product Development Lab-3
9	3	EEC	22CS311- Aptitude and Coding Skills - I
10	3	Theory	20CE501-Basic Reinforced Concrete Design
11	5	Theory	20CE502-Structural Analysis
12	5	Theory	20CE503-Environmental Engineering I
13	5	Theory	20CE504-Foundation Engineering
14	5	Theory	20CE904-Disaster Management (Professional Elective)
15	5	Practical	20CE511-Geotechnical Engineering Laboratory
16	5	Practical	20CE512-Environmental Engineering Laboratory
17	5	EEC	20CS512-Advance Aptitude and Coding Skills - I
18	5	EEC	20CE513-Internship
19	5	Theory	20CE701- Estimation, Costing and Valuation Engineering
20	5	Theory	20CE702- Water Resources and Irrigation Engineering
21	7	Theory	20CE911- Prefabricated Structures (Professional Elective)
22	7	Theory	20CE918- Fundamentals of Structural dynamics (Professional Elective)
23	7	Theory	20ME001- Introduction to Nanotechnology (Open Elective)
24	7	Practical	20CE711- Computer Aided Analysis, Design and Drafting Laboratory (CADD)
25	7	EEC	20CE712- Data Analysis and Programming Laboratory
26	7	EEC	20CE713- Summer Internship

Third Semester B.E.

22MA303- Fourier Analysis and Partial Differential Equations

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Find the Fourier series of periodic functions.
CO2	Compute the Fourier transform of prescribed functions.
CO3	Solve first order partial differential equations.
CO4	Determine the solutions of higher order partial differential equations.
CO5	Apply the concept of Fourier series to solve heat and wave equations.

22CE301-Mechanics of Materials (Lab Integrated)

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Determine the stresses, and strains in prismatic and composite bars under axial and thermal loads, and compute the principal stresses and principal planes
CO2	Determine Shear force, bending moment and bending stress distribution across various sections of beams based on theory of simple bending.
CO3	Analyze flexural members for shear stress distribution across various sections.
CO4	Determine slope and deflection of determinate beams using different methods.
CO5	Apply theory of torsion in design of circular shafts and helical springs.
CO6	Analyze pin jointed plane and space trusses using different methods.

22CE302-Fluid Mechanics (Lab Integrated)

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Demonstrate the difference between solid and fluid, its properties and behavior in static conditions.
CO2	Apply the conservation laws applicable to fluids through fluid kinematics and dynamics.
CO3	Relate the parameters involved in the given fluid phenomenon and predict the performances of prototype by model studies.
CO4	Estimate losses in pipelines for both laminar and turbulent conditions.
CO5	Analyze flow through pipes connected in series and in parallel.
CO6	Explain the concept of boundary layer and its application, separation of boundary layer and its control.

22CE303- Concrete Technology and Construction Practices (Lab Integrated)

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Describe the requirements of cement, aggregates and water for making concrete.
CO2	Summarize the effect of admixtures on properties of concrete.
CO3	Apply the concept of mix proportioning using different mix design methods.
CO4	Classify the properties of concrete at fresh and hardened state.
CO5	Outline the various practices and activities involved in construction works.
CO6	Identify the different methods and techniques used in substructure and super structures construction.

22CE304- Engineering Surveying (Lab Integrated)

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Summarize the procedure for measuring distance, horizontal angle and vertical angles using conventional and modern surveying instruments
CO2	Apply the principle of levelling to compute orthometric heights relative to a vertical datum with different instruments.
CO3	Illustrate the methods of setting out curves for engineering projects.
CO4	Identify solutions for adjustments of erroneous measurements of a survey network.
CO5	Describe the methods of sounding techniques conducted during hydrographic surveys.
CO6	Determine the absolute position of any object on the earth's surface to various celestial bodies.

22GE201- Tamils and Technology

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Identify the role of weaving and ceramic technology in ancient Tamil Culture.
CO2	Assess the design and construction technology ideas in the current Tamil society.
CO3	Identify the different types of manufacturing technology used in Tamil society and their significance.
CO4	Classify agricultural and irrigation technologies in ancient Tamil society and its current relevance.
CO5	Discuss the fundamentals of scientific Tamil and Tamil computing.

Laboratory

22CE305- Computer aided Building drawing

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Plan a building according to the requirements of National Building Code.
CO2	Prepare the layout and sectional views of a building manually.
CO3	Familiarize in the usage of AUTOCAD commands to generate different views.
CO4	Draft the plan, elevation and sectional views of the given structure using AUTOCAD.
CO5	Utilize the knowledge on the usage of modern tools.
CO6	Develop technical communication skill in the form of communicative drawing.

22ME311- Product Development Lab-3

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Enhance their skills in design concepts, rules and procedures.
CO2	Develop their cognitive strategy to think, organize, learn and behave.
CO3	Demonstrate the ability to provide conceptual design strategies for a product.
CO4	Describe the procedure for designing a Mock-up model.
CO5	Recognize and apply appropriate interdisciplinary and integrative strategies

22CS311- Aptitude and Coding Skills - I

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Develop vocabulary for effective communication and reading skills.
CO2	Build the logical reasoning and quantitative skills.
CO3	Develop error correction and debugging skills in programming.

Fifth Semester B.E

20CE501-Basic Reinforced Concrete Design

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Explain various design philosophies for the design of RC elements
CO2	Apply limit state concepts to design rectangular and flanged beams
CO3	Design beams under shear and torsion and calculate anchorage and development length.
CO4	Design different types of slabs and staircase using limit state method.
CO5	Design of columns subjected to various loading condition using limit state method.
CO6	Design isolated footing and combined footing using limit state method.

20CE502-Structural Analysis

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Understand the concept of indeterminate structures and analyse the structure using various methods.
CO2	Analyse continuous beams, pin-jointed indeterminate plane frames and rigid plane frames using strain energy method
CO3	Analyse continuous beams and rigid frames using slope defection method
CO4	Analyse continuous beams and rigid frames using moment distribution method.
CO5	Analyse indeterminate pin jointed plane frames, continuous beams and rigid frames using matrix flexibility method.
CO6	Analyse indeterminate pin jointed plane frames, continuous beams and rigid frames using matrix stiffness method.

20CE503-Environmental Engineering I

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Understand the water supply system, water sources and water quality characteristics and standards.
CO2	Design, operate and maintain water treatment plants.
CO3	Analyze the characteristics and composition of sewage for the estimation of sewage generation.
CO4	Design the unit operations in sewage treatment system.
CO5	Apply various sewage and sludge disposal methods for industrial applications.
CO6	Summarize advanced waste water treatment processes.

20CE504-Foundation Engineering

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Understand the importance of soil exploration for any civil engineering construction
CO2	Estimate bearing capacity of soils and the probable settlement of foundations
CO3	Decide proportioning of shallow foundation under different soil conditions and also get exposed in foundation analysis
CO4	Design raft and floating foundations under weak compressible soils.
CO5	Determine load carrying capacity and settlement of pile foundation under various soil conditions
CO6	Calculate earth pressure for granular and cohesive soils and carryout stability analysis on retaining walls.

20CE904-Disaster Management (Professional Elective)

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Describe the various types of disaster and the role of civil engineers in disaster management.
CO2	Interpret the phases of disaster management cycle and the approaches to disaster risk reduction.
CO3	Analyze the impacts of disaster and vulnerability factors.
CO4	Evaluate the disaster risk management strategies.
CO5	Assess the technologies to manage the risks from disaster.
CO6	Investigate the vulnerability factors and mitigation measures from various case studies.

Laboratory

20CE511-Geotechnical Engineering Laboratory

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Determine the index properties of coarse and fine-grained soils
CO2	Perform compaction tests on coarse and fine-grained soils.
CO3	Carryout permeability tests on granular and cohesive soils for the determination of coefficient of permeability
CO4	Determine the compressibility characteristics of fine-grained soils by conducting one-dimensional consolidation tests.
CO5	Compute shear strength of soils by performing direct shear test, triaxial shear test, vane shear test & unconfined compressive tests.
CO6	Classify the type of soil and ascertain the suitability for different types of construction.

20CE512-Environmental Engineering Laboratory

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Quantify the pollutant concentration in water and wastewater.
CO2	Suggest the type of treatment required and amount of dosage required for the treatment.
CO3	Examine the conditions for the growth of micro-organisms.
CO4	Analyze the physical, chemical and biological characteristics of water and wastewater.
CO5	Quantify the sludge in the waste water treatment.
CO6	Ensure the quality of water according to Indian standards.

20CS512-Advanced Aptitude and Coding Skills - I

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Develop vocabulary for effective communication and reading skills.
CO2	Build the logical reasoning and quantitative skills.
CO3	Develop error correction and debugging skills in programming.

20CE513-Internship

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Bridge the gap between Industrial requirements and academic learning.
CO2	Apply acquired knowledge to real-time applications.
CO3	Carryout multi-disciplinary projects under the guidance of industry and academic supervision
CO4	Extend the knowledge through research and development in specialized areas.
CO5	Identify the complexities involved in solving real-world engineering problems in an industrial setting.
CO6	Demonstrate teamwork and industrial work ethics, and report the activities carried out during the internship.

Seventh Semester B.E.

20CE701- Estimation, Costing and Valuation Engineering

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Estimate the quantities for buildings, roads, septic tank, soak pit, retaining walls and culverts.
CO2	Outline the standard data and schedule of rates for labour and materials
CO3	Analyse the rate and cost estimate for buildings, canals, and roads as per the schedule of rates.
CO4	Prepare technical report, tender and contract documents for various work with detailed specifications.
CO5	Explain bidding procedures, types of contracts, arbitration and legal requirements in construction.
CO6	Perform valuation of property and calculate rent, mortgage and lease of land and buildings.

20CE702- Water Resources and Irrigation Engineering

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Describe the significance of water resource and the strategies in reservoir operation.
CO2	Explain the concepts of national water policy and water resources management.
CO3	Analyze the crop water requirements and consumptive use of water.
CO4	Design the components of impounding structures and diversion head works, canal drops and cross drainage works.
CO5	Discuss the concepts of Kennady‘s and Lacey‘s regime theory in irrigation.
CO6	Explain the aspects of water user association and participatory irrigation management.

20CE911- Prefabricated Structures (Professional Elective)

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Recall the various technologies used in fabrication and erection
CO2	Illustrate the behaviour of various components of prefabricated structure
CO3	Identify the various design loads to be considered in the design of elements
CO4	Calculate the centre of mass, centre of stiffness and lateral force distribution in a structure,
CO5	Identify suitable connections for different members
CO6	Propose suitable mechanism to avoid progressive collapse

20CE918- Fundamentals of Structural dynamics (Professional Elective)

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Understand the basic definitions and concepts of structural dynamics and mathematical modelling
CO2	Calculate the values for damped and undamped SDOF system.
CO3	Explain the response of SDOF systems to different types of loadings
CO4	Summarize the solution technique for dynamics of MDOF system.
CO5	Calculate the natural frequencies and mode shapes of SDOF and MDOF systems
CO6	Understand the working principles of instruments used in vibration recording and monitoring

20ME001- Introduction to Nanotechnology (Open Elective)

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Identify suitable testing technique to inspect any industrial component.
CO2	Practice the different mechanical testing techniques and know its applications and limitations
CO3	Practice the different non-destructive testing techniques and know its applications and limitations
CO4	Practice the different material characterization techniques and know its applications and limitations
CO5	Practice the different Thermal Testing techniques and know its applications and Limitations
CO6	Practice the different chemical Testing techniques and know its applications and Limitations

Laboratory

20CE711- Computer Aided Analysis, Design and Drafting Laboratory (CADD)

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Analyze different beams using STADD Pro.
CO2	Analyze and design steel truss using STADD Pro.
CO3	Analyze and design frames using STADD Pro.
CO4	Draw the structural detailing of RCC Cantilever type Retaining wall.
CO5	Draw the structural detailing of RCC Counterfort type Retaining wall.
CO6	Draw the structural detailing of Circular and Rectangular water tank.

20CE712- Data Analysis and Programming Laboratory

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Identify suitable functions to be used to solve the given problem.
CO2	Apply logical functions to solve real time problems
CO3	Validate the given data using various functions like Sorting, Filtering, etc.
CO4	Summarize large amounts of data using pivot tables and charts.
CO5	Create reports using mail merge option.
CO6	Develop worksheets using macros and VBA.

20CE713- Summer Internship

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Bridge the gap between Industrial requirements and academic learning.
CO2	Apply acquired knowledge to real-time applications.
CO3	Carryout multi-disciplinary projects under the guidance of industry and academic supervision.
CO4	Extend the knowledge through research and development in specialized areas.
CO5	Identify the complexities involved in solving real-world engineering problems in an industrial setting.
CO6	Demonstrate teamwork and industrial work ethics, and report the activities carried out during the internship.

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Course Outcomes - Even Semester 2023-24

Sl. No.	Semester	Theory / Practical	Course Code / Course Name
1	4	Theory	22MA403-Statistics and Boundary Value Problems
2	4	Theory	22CE401- Advanced Mechanics of Materials
3	4	Theory	22CE402- Applied Hydraulic Engineering (Lab Integrated)
4	4	Theory	22CE403- Soil Mechanics (Lab Integrated)
5	4	Theory	22CE902-Remote Sensing (Professional Elective I)
6	4	Theory	22GE301- Universal Human Values 2: Understanding Harmony
7	4	EEC	22ME411-Product Development Lab-4
8	4	EEC	22CS411-Aptitude and Coding Skills II
9	4	Theory	20CE601-Water Resources and Irrigation Engineering
10	6	Theory	20CE602-Design of Steel Structures
11	6	Theory	20CE603-Railways, Airports, Docks and Harbour Engineering
12	6	Theory	20CE908-Ground Improvement Techniques (Professional Elective II)
13	6	Theory	20ME006- Testing of Materials (Open Elective I)
14	6	Practical	20CE611- Concrete and Highway Engineering laboratory
15	6	Practical	20CE612- Building Information Modeling laboratory
16	6	EEC	20CS614-Advcanced Aptitude and Coding Skills - II
17	8	Practical	20CE811-Project Work

Fourth Semester B.E.

22MA403 - Statistics and Boundary Value Problems

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Apply the concept of testing the hypothesis.
CO2	Implement the concept of analysis of variance for various experimental designs.
CO3	Demonstrate the control charts for variables and attributes.
CO4	Solve the initial value problems using numerical techniques.
CO5	Determine the numerical solutions of boundary value problems.

22CE401- Advanced Mechanics of Materials

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Determine the strain energy and deflection of beams, frames and trusses using energy principles.
CO2	Analyze propped cantilever, fixed beams and continuous beams and draw shear force and bending moment diagrams.
CO3	Determine the load carrying capacity of long and short columns and stresses in thin cylinders, thick cylinders and spherical shells.
CO4	Determine principal stresses and principal planes in three-dimensional state of stress.
CO5	Apply various failure theories to determine the critical stress which governs the design.
CO6	Analyze the stresses due to unsymmetrical bending of beams and the stresses in curved beams.

22CE402- Applied Hydraulic Engineering (Lab Integrated)

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Identify different regimes of flow, analysis of uniform flow in steady state conditions with specific energy concept and its application.
CO2	Identify the most economical section for flow in different channel sections.
CO3	Analyse steady and gradually varied flow, water surface profiles and its length calculation using direct and standard step methods.
CO4	Differentiate the types of hydraulic jumps and estimating energy loss in hydraulic jump with exposure to positive and negative surges.
CO5	Differentiate pumps and explain the working principle with characteristic curves.
CO6	Design turbines and explain the working principle with characteristic curves.

22CE403- Soil Mechanics (Lab Integrated)

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Characterize and Classify soils.
CO2	Interpret the role of water in soil behaviour and evaluation of geostatic stresses, permeability and quantity of seepage.
CO3	Determine the geostatic stresses and the stress distribution in a soil medium due to applied loads.
CO4	Explain the stress distribution under applied loads.
CO5	Analyze and compute the consolidation settlements.
CO6	Identify the shear strength parameters for field conditions.

22CE902-Remote Sensing (Professional Elective I)

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Describe the fundamentals of remote sensing, principles and applications.
CO2	Illustrate the nature of topography based on the spectral signature characteristics.
CO3	Summarize the payload characteristics, sensors and resolution of various satellites.
CO4	Classify the remote sensing imagery based on supervised and unsupervised image interpretation techniques.
CO5	Outline the principle and concept of thermal and microwave remote sensing.
CO6	Discuss the applications of hyperspectral remote sensing.

22GE301- Universal Human Values 2: Understanding Harmony

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	would become more aware of themselves, and their surroundings (family, society, nature)
CO2	would become more responsible in life, and in handling problems with sustainable solutions, while keeping human relationships and human nature in mind.
CO3	would have better critical ability.
CO4	Would become sensitive to their commitment towards what they have understood (human values, human relationship and human society).
CO5	would be able to apply what they have learnt to their own self in different day-to-day settings in real life, at least a beginning would be made in this direction.

22MCE411-Product Development Lab-4

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Identify the real-time problems through literature.
CO2	Develop feasible solutions for the problems.
CO3	Evaluate the methods to develop solutions to the problem.
CO4	Analyze the business opportunities for a new product.
CO5	Prepare a detailed report for the experimental dissemination.

22CS411-Aptitude and Coding Skills II

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Develop advanced vocabulary for effective communication and reading skills.
CO2	Build an enhanced level of logical reasoning and quantitative skills.
CO3	Develop error correction and debugging skills in programming.
CO4	Apply data structures and algorithms in problem solving.

Sixth Semester B.E.

20CE601-Water Resources and Irrigation Engineering

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Describe the significance of water resource and the strategies in reservoir operation.
CO2	Explain the concepts of national water policy and water resources management.
CO3	Analyze the crop water requirements and consumptive use of water.
CO4	Design the components of impounding structures and diversion head works, canal drops and cross drainage works.
CO5	Discuss the concepts of Kennady's and Lacey's regime theory in irrigation.
CO6	Explain the aspects of water user association and participatory irrigation management.

20CE602-Design of Steel Structures

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Explain the properties of steel sections and apply the limit state method to the design of steel structures.
CO2	Design bolted and welded connections for steel structures.
CO3	Design tension members with the knowledge of shear lag effect.
CO4	Design axially loaded columns and built-up columns.
CO5	Appraise the behavior of beams and design laterally restrained and un-restrained beams.
CO6	Design plate girders and calculate the loads on truss members.

20CE603-Railways, Airports, Docks and Harbour Engineering

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Describe the concepts and elements in planning, design and construction of railways.
CO2	Apply appropriate methods for construction and maintenance of railway tracks and other infrastructure.
CO3	Identify the concepts and elements in planning and selection of site for airport.
CO4	Analyze and design the runway length and evaluate the orientation of runways.
CO5	Explain the terminologies and infrastructures in harbour engineering.
CO6	Understand types of coastal protection structures and coastal regulations.

20CE908-Ground Improvement Techniques (Professional Elective II)

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Identify issues related to soil deposits and develop strategies to assess them.
CO2	Familiarize with various ground improvement techniques and selection of appropriate methods suited to soil conditions
CO3	Design a dewatering system for given site requirements by selecting suitable dewatering techniques.
CO4	Gain knowledge on in-situ treatment of cohesive and cohesionless soils.
CO5	Understand the concept of reinforced earth structures, geosynthetics, geotextiles, geogrids and their applications.
CO6	Gain knowledge on types of grouting and different soil stabilization techniques.

20ME006- Testing of Materials (Open Elective I)

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Identify suitable testing technique to inspect any industrial component.
CO2	Practice the different mechanical testing techniques and know its applications and limitations
CO3	Practice the different non-destructive testing techniques and know its applications and limitations
CO4	Practice the different material characterization techniques and know its applications and limitations
CO5	Practice the different Thermal Testing techniques and know its applications and Limitations
CO6	Identify suitable testing technique to inspect any industrial component.

Laboratory

20CE611- Concrete and Highway Engineering laboratory

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Analyze the physical properties of coarse aggregates as per code of practices.
CO2	Examine the strength characteristics of coarse aggregates.
CO3	Determine the various properties of fresh concrete.
CO4	Evaluate the hardened value of concrete cubes, cylinders and prism.
CO5	Assess the different properties of fresh bitumen.
CO6	Determine the hardened properties of bitumen mixes.

20CE612-Building Information Modeling Drawing

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Develop a 3D model using Building Information Modelling.
CO2	Position the structural elements in the 3D BIM model.
CO3	Create a 3D model to furnish the structural details of RC members
CO4	Develop a 3D model for connection detailing of steel members.
CO5	Create a federated model to analyze clashes and to deliver a clash-free model.
CO6	Develop architectural and structural models based on project standards and respective documents for construction stage.

20CS614-Advanced Aptitude and Coding Skills

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Develop advanced vocabulary for effective communication and reading skills.
CO2	Build an enhanced level of logical reasoning and quantitative skills.
CO3	Develop error correction and debugging skills in programming.
CO4	Apply data structures and algorithms in problem solving.

Eight Semester B.E.

20CE811-Project Work

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Develop sustainable projects understanding the societal and environmental importance.
CO2	Identify appropriate techniques and apply fundamental engineering knowledge to solve the identified problem.
CO3	Carry out inter disciplinary projects using modern techniques and tools.
CO4	Work as an individual or as a team in the development of technical projects, applying ethical principles.
CO5	Comprehend and write reports effectively on the project related activities and findings.
CO6	Bridge the gap between industry and academia by carrying out industrial projects