

# Department of Civil Engg.

Course Outcome Statement			
<b>Course:</b>	<b>Code: 18MAT31</b> <b>Course Name: TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUES</b>	<b>Faculty: Prof. Uma Devi R</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 301.1	Use Laplace transform and inverse Laplace transform in solving differential/ integral equation arising in network analysis, control systems and other fields of engineering.		
Course 301.2	Demonstrate Fourier series to study the behaviour of periodic functions and their applications in system communications, digital signal processing and field theory.		
Course 301.3	Make use of Fourier transform and Z-transform to illustrate discrete/continuous function arising in wave and heat propagation, signals and systems.		
Course 301.4	Solve first and second order ordinary differential equations arising in engineering problems using single step and multistep numerical methods.		
Course 301.5	Determine the externals of functionals using calculus of variations and solve problems arising in dynamics of rigid bodies and vibrational analysis.		

Course Outcome Statement			
<b>Course:</b>	<b>Code: 18CV32</b> <b>Course Name: Strength of Materials</b>	<b>Faculty: Sruthi Kumar</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 302.1	To evaluate the basic concepts of the stresses and strains for different materials and strength of structural elements.		
Course 302.2	To evaluate the development of internal forces and resistance mechanism for one dimensional and two dimensional structural elements		
Course 302.3	To analyse different internal forces and stresses induced due to representative loads on structural elements		
Course 302.4	To evaluate slope and deflections of beams.		
Course 302.5	To evaluate the behaviour of torsion members, columns and struts.		

Course Outcome Statement			
<b>Course:</b>	<b>Code: 18CV33</b> <b>Course Name: Fluid Mechanics</b>	<b>Faculty: Dr. H J SURENDRA</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 303.1	Possess a sound knowledge of fundamental properties of fluids and fluid Continuum		
Course 303.2	Compute and solve problems on hydrostatics, including practical applications		
Course 303.3	Apply principles of mathematics to represent kinematic concepts related to fluid flow		
Course 303.4	Apply fundamental laws of fluid mechanics and the Bernoulli's principle for practical applications		
Course 303.5	Compute the discharge through pipes and over notches and weirs		

Course Outcome Statement			
<b>Course:</b>	<b>Code:18CV34</b> <b>Course Name: BUILDING MATERIALS AND CONSTRUCTION</b>	<b>Faculty: PEERYA NAIK</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 304.1	Select suitable materials for buildings and adopt suitable construction techniques		
Course 304.2	Decide suitable type of foundation based on soil parameters		
Course 304.3	Supervise the construction of different building elements based on suitability		
Course 304.4	Exhibit the knowledge of building finishes and form work requirements		
Course 304.5			

Course Outcome Statement			
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<b>Course:</b>	<b>Code:18CV35</b> <b>Course Name: BASIC SURVEYING</b>	<b>Faculty: PEERYA NAIK</b>	<b>Academic Year: 2019 – 20</b>
	<b>Statement</b>		
Course 305.1	Posses a sound knowledge of fundamental principles Geodetics		
Course 305.2	Measurement of vertical and horizontal plane, linear and angular dimensions to arrive at solutions to basic surveying problems.		
Course 305.3	Capture geodetic data to process and perform analysis for survey problems		
Course 305.4	Analyse the obtained spatial data and compute areas and volumes. Represent 3D data on plane figures as contours		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code:18CV36</b> <b>Course Name: ENGINEERING GEOLOGY</b>	<b>Faculty:Dr. NAGABHUSHAN</b>	<b>Academic Year: 2019 – 20</b>
	<b>Statement</b>		
Course 306.1	Apply geological knowledge in different civil engineering practice.		
Course 306.2	Students will acquire knowledge on durability and competence of foundation rocks, and confidence enough to use the best building materials.		
Course 306.3	Civil Engineers are competent enough for the safety, stability, economy and life of the structures that they construct.		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code:18CVL38</b> <b>Course Name: Building Materials Testing Laboratory</b>	<b>Faculty:NAGA SUBRAMANIAN G,ASHWINI B,ASHA</b>	<b>Academic Year: 2019 – 20</b>
	<b>Statement</b>		
Course 307.1	Reproduce the basic knowledge of mathematics and engineering in finding the strength in tension, compression, shear and torsion.		
Course 307.2	Identify, formulate and solve engineering problems of structural elements subjected to flexure.		
Course 307.3	Evaluate the impact of engineering solutions on the society and also will be aware of contemporary issues regarding failure of structures due to unsuitable materials.		
Course 307.4	Able to solve various issues related to ground water exploration, build up dams, bridges, tunnels which are often confronted with ground water problems		
Course 307.5	Intelligent enough to apply GIS, GPS and remote sensing as a latest tool in different civil engineering construction.		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code:18CVL37</b> <b>Course Name: COMPUTER AIDED BUILDING PLANNING AND DRAWING</b>	<b>Faculty: PEERYA NAIK, ATHIYAMAAN V</b>	<b>Academic Year: 2019 – 20</b>
	<b>Statement</b>		
Course 308.1	Prepare, read and interpret the drawings in a professional set up		
Course 308.2	Know the procedures of submission of drawings and develop working and submission drawings for building.		
Course 308.3	Plan and design residential or public building as per the given requirements.		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code:Code:18MAT41</b> <b>Course Name: COMPLEX ANALYSIS, PROBABILITY AND STATIC</b>	<b>Faculty:Umadevi R</b>	<b>Academic Year: 2019 – 20</b>
	<b>Statement</b>		
Course 401.1	Use the concepts of analytic function and complex potentials to solve the problems arising in electromagnetic field theory.		
Course 401.2	Utilize conformal transformation and complex integral arising in aerofoil theory, fluid flow visualization and image processing.		
Course 401.3	Apply discrete and continuous probability distributions in analyzing the probability models arising in engineering field.		
Course 401.4	Make use of the correlation and regression analysis to fit a suitable mathematical model for the statistical data		
Course 401.5	Construct joint probability distributions and demonstrate the validity of testing the hypothesis		

Course Outcome Statement			
<b>Course:</b>	<b>Code:18CV42</b> <b>Course Name: ANALYSIS OF DETERMINATE STRUCTURE</b>	<b>Faculty:NAGA SUBRAMANIAN G</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 402.1	Identify different forms of structural systems.		
Course 402.2	Construct ILD and analyse the beams and trusses subjected to moving loads		
Course 402.3	Evaluate the deflection of cantilever, simply supported and overhanging beams by different methods		
Course 402.4	Understand the energy principles and energy theorems and its applications to determine the deflections of trusses and bent frames.		
Course 402.5	Determine the stress resultants in arches and cables.		
Course Outcome Statement			
<b>Course:</b>	<b>Code:18CV43</b> <b>Course Name: Applied Hydraulics</b>	<b>Faculty: Dr H J Surendra</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 403.1	Apply dimensional analysis to develop mathematical modeling and compute the parametric values in prototype by analyzing the corresponding model parameters		
Course 403.2	Design the open channels of various cross sections including economical channel sections		
Course 403.3	Apply Energy concepts to flow in open channel sections, Calculate Energy dissipation, Compute water surface profiles at different conditions		
Course 403.4	Measurement of Impact force for curved plates and comparison with momentum change		
Course 403.5	Design turbines for the given data, and to know their operation characteristics under different operating conditions		
Course Outcome Statement			
<b>Course:</b>	<b>Code: 18CV44</b> <b>Course Name: Concrete Technology</b>	<b>Faculty: Sruthi Kumar</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 404.1	Relate material characteristics and their influence on microstructure of concrete		
Course 404.2	Distinguish concrete behavior based on its fresh and hardened properties		
Course 404.3	Illustrate proportioning of different types of concrete mixes for required fresh and hardened properties using professional codes.		
Course 404.4	Adopt suitable concreting methods to place the concrete based on requirement.		
Course 404.5	Select a suitable type of concrete based on specific application		
Course Outcome Statement			
<b>Course:</b>	<b>Code: 18CV45</b>	<b>Faculty: Karthik J</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 405.1	Apply geometric principles to arrive at solutions to surveying problems.		
Course 405.2	Analyze spatial data using appropriate computational and analytical techniques.		
Course 405.3	Design proper types of curves for deviating type of alignments.		
Course 405.4	Knowing about Aerial Photogrammetry and It's Applications		
Course 405.5	Use the concepts of advanced data capturing methods necessary for engineering practice		
Course Outcome Statement			
<b>Course:</b>	<b>Code: 18CV46</b> <b>Course Name: Water Supply and Treatment Engineering</b>	<b>Faculty: Dr. Rahul Dandautiya</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 406.1	Students will able to evaluate future population and estimate average and peak water demand for a community		
Course 406.2	Students will able to identify the ways to find out water supply source and environmental significance of various parameters required for water quality assessment.		
Course 406.3	Students will able to identify quality of water based on different prescribed standards. They able to elaborate different types of aeration processes and their limitation.		
Course 406.4	Students will get understanding of the basic principles behind each water treatment unit and able to design them.		

Course 406.5	Students will get understanding of the water distribution system to supply water to the community with prescribed quality standards.		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code: 18CVL47</b>	<b>Faculty: Karthik J</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 407.1	The students able to identify the minerals, rocks and utilize them effectively in civil engineering practices.		
Course 407.2	The students will interpret and understand the geological conditions of the area for implementation of civil engineering projects.		
Course 407.3	The students will interpret subsurface information such as thickness of soil, weathered zone, depth of hard rock and saturated zone by using geophysical methods.		
Course 407.4	The students will learn the techniques in the interpretation of LANDSAT Imageries to find out the lineaments and other structural features for the given area.		
Course 407.5	The students will be able to identify the different structures in the field.		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code:18CVL48</b> <b>Course Name: FM &amp;HM LABORATORY</b>	<b>Faculty:SACHIN K G,SRUTHI KUMAR</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 408.1	Understanding of properties of fluids and the use of various instruments for fluid flow measurement.		
Course 408.2	Understanding of working of hydraulic machines under various conditions of working and their characteristics		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code: 17CV62</b> <b>Course Name: Design of steel structural elements</b>	<b>Faculty: Sachin K G</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 501.1	Understand the design philosophy and principles		
Course 501.2	Solve engineering problems of RC elements subjected to flexure, shear and torsion		
Course 501.3	Demonstrate the procedural knowledge in designs of RC structural elements such as slabs, columns and footings		
Course 501.4	Owns professional and ethical responsibility		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code: 17CV52</b> <b>Course Name: Analysis of Indeterminate Structures</b>	<b>Faculty: KIRAN. B</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 502.1	Students will be able to determine the moment in indeterminate beams and frames having variable moment of inertia and subsidence using slope deflection method		
Course 502.2	Students will be able to determine the moment in indeterminate beams and frames of no sway and sway using moment distribution method.		
Course 502.3	Students will be able to construct the bending moment diagram for beams and frames by Kani's method		
Course 502.4	Students will be able to construct the bending moment diagram for beams and frames using flexibility method		
Course 502.5	Students will be able to analyze the beams and indeterminate frames by system stiffness method		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code: 15CV53</b> <b>Course Name: Applied Geotechnical Engineering</b>	<b>Faculty: Siddalingeshwara D H</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 503.1	Ability to plan and execute geotechnical site investigation program for different civil engineering projects		
Course 503.2	Understanding of stress distribution and resulting settlement beneath the loaded footings on sand and clayey soils		
Course 503.3	Ability to estimate factor of safety against failure of slopes and to compute lateral pressure distribution behind earth retaining structures		
Course 503.4	Ability to determine bearing capacity of soil and achieve proficiency in proportioning shallow isolated and combined footings for uniform bearing pressure		
Course 503.5	Capable of estimating load carrying capacity of single and group of piles		

Course Outcome Statement			
<b>Course:</b>	<b>Code:17CV54</b> <b>Course Name: COMPUTER AIDED BUILDING PLANNING AND DRAWING</b>	<b>Faculty: KIRAN B, ATHIYAMAAN, NAGA SUBRAMANIAN G, ANAND KUMAR G</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 504.1	Students will be able to gain a broad understanding of planning and designing of buildings		
Course 504.2	Students will be able to prepare, read and interpret the drawings in a professional set up		
Course 504.3	Students will be able to know the procedures of submission of drawings and develop working and submission drawings for building		
Course 504.4	Students will be able to plan and design a residential or public building as per the given requirements		
Course Outcome Statement			
<b>Course:</b>	<b>Code:17CV552</b>	<b>Faculty: PRATHIBHA VS</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 505.1	Understand the history and development, role of railways, railway planning and development based on essential criteria's		
Course 505.2	Learn different types of structural components, engineering properties of the materials, to calculate the material quantities required for construction		
Course 505.3	Develop layout plan of airport and able to gain knowledge to identify required type of visual and navigation aids for the same.		
Course 505.4	Apply design features of tunnels, harbours, dock and necessary navigational aids; also expose them to various methods of tunneling and tunnel accessories.		
Course Outcome Statement			
<b>Course:</b>	<b>Code: 15CV562</b> <b>Course Name: Sustainability Concepts in Engineering</b>	<b>Faculty: ANAND KUMAR G</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 506.1	Learn the sustainability concepts, understand the role and responsibility of engineers in sustainable development		
Course 506.2	Quantify sustainability, and resource availability, Rationalize the sustainability based on scientific merits		
Course 506.3	Understand and apply sustainability concepts in construction practices, designs, product developments and processes across various engineering disciplines		
Course 506.4	Make a decision in applying green engineering concepts and become a lifelong advocate of sustainability in society		
Course Outcome Statement			
<b>Course:</b>	<b>Code:17CVL57</b> <b>Course Name: Geotechnical Engineering Lab</b>	<b>Faculty: Siddalingeshwara D H,Sruthi Kumar</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 507.1	To determine Physical and index properties of the soil		
Course 507.2	To classify based on index properties and field identification		
Course 507.3	To determine OMC and MDD, plan and assess field compaction program		
Course 507.4	To determine shear strength and consolidation parameters to assess strength and deformation characteristics		
Course 507.5	To determine In-situ shear strength characteristics (SPT- Demonstration)		
Course Outcome Statement			
<b>Course:</b>	<b>Code: 17CVL58</b>	<b>Faculty: PRATHIBHA V S, ASHWINI BT, SACHIN K G</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 508.1	Conduct appropriate laboratory experiments and interpret the results		
Course 508.2	Determine the quality and suitability of cement		
Course 508.3	Design appropriate concrete mix and to Determine strength and quality of concrete		
Course 508.4	Test the road aggregates and bitumen for their suitability as road material		
Course 508.5	Test the soil for its suitability as sub grade soil for pavements		
Course Outcome Statement			

<b>Course:</b>	<b>Code:17CV61</b>	<b>Faculty:NAGA SUBRAMANIAN G AND ANAND KUMAR.G</b>	<b>Academic Year: 2019 – 20</b>
	<b>Statement</b>		
Course 601.1	Understand the management and functions of management, project formulation, planning and scheduling of projects		
Course 601.2	Formulating the resource management, construction equipments, material management		
Course 601.3	To maintain Construction Quality , safety and Human Values, Morals, values and ethics, integrity, trustworthiness		
Course 601.4	To know Principles of engineering economics, concept, Minimum Cost analysis and break even analysis		
Course 601.5	To know Evolution of the concept, functions of an entrepreneur, Business planning process, marketing plan, financial plan, project report and feasibility study,		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code: 17CV62</b>	<b>Faculty: Sachin K G</b>	<b>Academic Year: 2019 – 20</b>
	<b>Statement</b>		
Course 602.1	Possess a knowledge of Steel Structures Advantages and Disadvantages of Steel structures, steel code provisions and plastic behavior of structural steel		
Course 602.2	Understand the Concept of Bolted and Welded connections.		
Course 602.3	Understand the Concept of Design of compression members, built-up columns and columns splices.		
Course 602.4	Understand the Concept of Design of tension members, simple slab base and gusseted base.		
Course 602.5	Understand the Concept of Design of laterally supported and un-supported steel beams.		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code: 17CV63</b>	<b>Faculty: PRATHIBHA V S</b>	<b>Academic Year: 2019 – 20</b>
	<b>Statement</b>		
Course 603.1	Acquire the capability of proposing a new alignment or re-alignment of existing roads, conduct necessary field Investigation for generation of required data.		
Course 603.2	Evaluate the engineering properties of the materials and suggest the suitability of the same for pavement Construction.		
Course 603.3	Design road geometrics, structural components of pavement and drainage.		
Course 603.4	Evaluate the highway economics by few select methods and also will have a basic knowledge of various highway Financing concepts.		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code: 17CV64</b>	<b>Faculty: Kritika Sharma</b>	<b>Academic Year: 2019 – 20</b>
	<b>Statement</b>		
Course 604.1	Students will able to evaluate future population and estimate average and peak water demand for a community		
Course 604.2	Students will able to identify the ways to find out water supply source and environmental significance of various parameters required for water quality assessment.		
Course 604.3	Students will able to identify the quality of water-based on different prescribed standards. They will be able to elaborate on different types of aeration processes and their limitation.		
Course 604.4	Students will get an understanding of the basic principles behind each water treatment unit and able to design them.		
Course 604.5	Students will get an understanding of the water distribution system to supply water to the community with prescribed quality standards.		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code:15CV653</b>	<b>Faculty:ATHIYAMAAN V</b>	<b>Academic Year: 2019 – 20</b>
	<b>Statement</b>		
Course 605.1	Solve the problems of Environmental issues concerned to building materials and cost effective building technologies;		
Course 605.2	Suggest appropriate type of masonry unit and mortar for civil engineering constructions; also they are able to Design Structural Masonry Elements under Axial Compression.		

Course 605.3	Analyse different alternative building materials which will be suitable for specific climate and in an environmentally sustainable manner. Also capable of suggesting suitable agro and industrial wastes as a building material		
Course 605.4	Recommend various types of alternative building materials and technologies and design a energy efficient building by considering local climatic condition and building material.		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code: 17CV662</b> <b>Course Name: Environmental protection and management</b>	<b>Faculty: Asha W , Dr. Rahul Dandautiya</b>	<b>Academic Year: 2019 – 20</b>
	<b>Statement</b>		
Course 606.1	Students will able to identify the Environmental problems, understand the role of professionals		
Course 606.2	Understand environment management principles and nationwide framed policies.		
Course 606.3	Students will understand different disposal Standards of water and air quality and make disition along with the ways to achieve them.		
Course 606.4	Develop, Implement, maintain and Audit Environmental Management systems for Organizations		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code:17CVL67</b> <b>Course Name: SOFTWARE APPLICATION LAB</b>	<b>Faculty:ATHIYAMAAN, KIRAN. B, ANAND KUMAR,NAGA SUBRAMANIAN</b>	<b>Academic Year: 2019 – 20</b>
	<b>Statement</b>		
Course 607.1	Use software skills in a professional set up to automate the work and thereby reduce cycle time for completion of the work		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code: 17CVP68</b>	<b>Faculty: PRATHIBHA V S, KRITIKA SHRAMA, ASHWINI BT,ASHA W, Bramendra Kishore H R</b>	<b>Academic Year: 2019 – 20</b>
	<b>Statement</b>		
Course 608.1	Apply Surveying knowledge and tools effectively for the projects		
Course 608.2	Understanding Task environment, Goals, responsibilities, Task focus, working in Teams towards common goals, Organizational performance expectations, technical and behavioral competencies.		
Course 608.3	Application of individual effectiveness skills in team and organizational context, goal setting, time management, communication and presentation skills.		
Course 608.4	Professional etiquettes at workplace, meeting and general.Establishing trust based relationships in teams & organizational environment		
Course 608.5	Orientation towards conflicts in team and organizational environment, Understanding sources of conflicts, Conflict resolution styles and techniques		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code: 15CV71</b> <b>Course Name: Municipal and Industrial Waste Water Engineering</b>	<b>Faculty: Kritika Sharma</b>	<b>Academic Year: 2019 – 20</b>
	<b>Statement</b>		
Course 701.1	Acquires capability to design sewer and Sewerage treatment plant.		
Course 701.2	Evaluate degree of treatment and type of treatment for disposal, reuse and recycle.		
Course 701.3	Identify waste streams and design the industrial waste water treatment plant.		
Course 701.4	Manage sewage and industrial effluent issues.		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code:15CV72</b> <b>Course Name: Design of RCC and Steel Structures</b>	<b>Faculty: DIVYA NAIR</b>	<b>Academic Year: 2019 – 20</b>
	<b>Statement</b>		
Course 702.1	Students will acquire the basic knowledge in design of RCC and Steel Structures.		
Course 702.2	Students will have the ability to follow design procedures as per codal provisions and skills to arrive at structurally safe RC and Steel members.		

Course Outcome Statement			
<b>Course:</b>	<b>Code:15CV73</b> <b>Course Name: HYDROLOGY AND IRRIGATION ENGINEERING</b>	<b>Faculty:Dr. Rahul Dandautiya</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 703.1	Understand the importance of hydrology and its components.		
Course 703.2	Measure precipitation and analyze the data and analyze the losses in precipitation.		
Course 703.3	Estimate runoff and develop unit hydrographs.		
Course 703.4	Find the benefits and ill-effects of irrigation.		
Course 703.5	Find the quantity of irrigation water and frequency of irrigation for various crops.		
Course 703.6	Find the canal capacity, design the canal and compute the reservoir capacity.		
Course Outcome Statement			
<b>Course:</b>	<b>Code:15CV743</b> <b>Course Name: Design Concept of Building Services</b>	<b>Faculty: Dr. ATHIYAMAAN V</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 704.1	Describe the basics of house plumbing and waste water collection and disposal.		
Course 704.2	Discuss the safety and guidelines with respect to fire safety.		
Course 704.3	Describe the issues with respect to quantity of water, rain water harvesting and roof top harvesting.		
Course 704.4	Understand and implement the requirements of thermal comfort in buildings		
Course Outcome Statement			
<b>Course:</b>	<b>Code:15CV753</b> <b>Course Name: Rehabilitation and Retrofitting of Structures</b>	<b>Faculty:NAGA SUBRAMANIAN G</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 705.1	Understand the cause of deterioration of concrete structures. Able to assess the damage for different type of structures.		
Course 705.2			
Course 705.3	Summarize the principles of repair and rehabilitation of structures.		
Course 705.4	Recognize ideal material for different repair and retrofitting technique		
Course Outcome Statement			
<b>Course:</b>	<b>Code:15CVL76</b> <b>Course Name: Environmental Engineering Laboratory</b>	<b>Faculty: Kritika Sharma, Sachin K.G., Asha W</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 706.1	Acquire capability to conduct experiments and estimate the concentration of different parameters.		
Course 706.2	Compare the result with standards and discuss based on the purpose of analysis.		
Course 706.3	Determine type of treatment, degree of treatment for water and waste water.		
Course 706.4	Identify the parameter to be analyzed for the student project work in environmental stream.		
Course 706.5			
Course Outcome Statement			
<b>Course:</b>	<b>Code:15CVL77</b> <b>Course Name: Computer Aided Detailing of Structures</b>	<b>Faculty: KIRAN. B, ANAND KUMAR G , DIVYA NAIR</b>	<b>Academic Year: 2019 – 20</b>
<b>Statement</b>			
Course 708.1	Students will be able to prepare detailed working drawings		
Course Outcome Statement			



<b>Course:</b>	<b>Code: 15CV81</b>	<b>Faculty: Karthik J/ Anand Kumar</b>	<b>Academic Year: 2019 – 20</b>
	<b>Statement</b>		
Course 801.1	Estimate the quantities of work, develop the bill of quantities and arrive at the Cost of civil engineering Project		
Course 801.2	Estimate different Quantities of RCC structures & Roads		
Course 801.3	Understand the need for application of different Specifications		
Course 801.4	Understand and apply the concept of Valuation for Properties		
Course 801.5	Understand, Apply and Create the Tender and Contract document.		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code: 15CV82</b>	<b>Faculty: KIRAN. B</b>	<b>Academic Year: 2019 – 20</b>
	<b>Course Name: Design of Prestressed Concrete Elements</b>		
	<b>Statement</b>		
Course 802.1	Understand the requirement of PSC members for present scenario		
Course 802.2	Analyse the stresses encountered in PSC element during transfer and at working		
Course 802.3	Understand the effectiveness of the design of PSC after studying losses		
Course 802.4	Capable of analyzing the PSC element and finding its efficiency		
Course 802.5	Design PSC beam for different requirements		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code: 15CV83</b>	<b>Faculty: BRAMENDRA KISHORE H R</b>	<b>Academic Year: 2019 – 20</b>
	<b>Statement</b>		
Course 803.1	Systematically generate & compile required datas for design of oavement(highway & airfield)		
Course 803.2	Analyse stress ,strain & deflection by boussinesq's , burmister's & westergaards theory.		
Course 803.3	Design rigid pavement & flexible pavement conforming to IRC58-2002 & IRC-37-2001		
Course 803.4	Evaluate the performance of the pavement		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code:15CV84 Course Name: Internship /Professional Practice</b>	<b>Faculty: KIRAN. B</b>	<b>Academic Year: 2019 – 20</b>
	<b>Statement</b>		
Course 804.1	This course will enable students to get the field exposure and experience		
<b>Course Outcome Statement</b>			
<b>Course:</b>	<b>Code: 15CVP85 Project Work-II</b>	<b>Faculty: KIRAN. B</b>	<b>Academic Year: 2019 – 20</b>
	<b>Statement</b>		
Course 805.1	<b>understand the professional practices in the civil engineering and the impact of engineering solutions to the society</b>		
Course 805.2	write scientific report and present their research work in a precise and coherent manner		

**NOTE:**

100 series 101...etc First semester subjects including Practicals, Projects etc.,  
200series 201...etc Second semester subjects including Practicals, Projects etc.,  
300 series 301...etc Third semester subjects including Practicals, Projects etc.,  
400 series 401...etc Fourth semester subjects including Practicals, Projects etc.,  
500 series 501...etc Fifth semester subjects including Practicals, Projects etc.,  
600 series 601...etc Sixth semester subjects including Practicals, Projects etc.,

700 series 701...etc Seventh semester subjects including Practicals, Projects etc.,

800 series 801...etc Eighth semester subjects including Practicals, Projects etc.,