



BRILLIANT GRAMMAR SCHOOL EDUCATIONAL SOCIETY'S GROUP OF INSTITUTIONS-INTEGRATED CAMPUS

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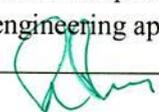
Abdullapur (V), Abdullapurmet (M), R.R Dist. Hyderabad – 501505

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Civil Engineering I&II Sem Course Outcomes for the Academic

Year 2021-2022

Civil Engineering I&II Sem Course Outcomes for the Academic Year 2021-2022			
S.No.	Year/Sem	Course Name	Course Outcomes
1	II/I	Surveying and Geomatics	CO1: Calculate angles, distances and levels
			CO2: Identify data collection methods and prepare field notes
			CO3: Understand the working principles of survey instruments
			CO4: Estimate measurement errors and apply corrections
			CO5: Interpret survey data and compute areas and volumes
2	II/I	Engineering geology	CO1: Understand weathering process and mass movement
			CO2: Distinguish geological formations
			CO:3 Identify geological structures and process for rock mass quality
			CO:4 Identify subsurface information and groundwater potential sites through geophysical investigations
			CO:5 Apply geological principles for mitigation of natural hazards and select sites for dams and tunnels
3	II/I	Strength of Materials-1	CO:1 Analyze the statically determinate and indeterminate problems.
			CO:2 Determine the stresses and strains in the members subjected to axial bending
			CO:3 Evaluate the slope and deflection of beams subjected to loads.
			CO:4 Determine the principal stresses and strains in structural members
			CO:5 Frame an idea to design a system, component or process
4	II/I	Probability and Statistics	CO:1 Understand concepts of discrete probability, conditional probability, independence, and be able to apply these concepts to engineering applications


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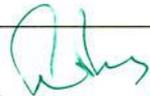
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			CO:2 Be able to use statistical concepts to analyse and interpret engineering data.
			CO:3 Equipping students with essential tools for statistical analyses at the graduate level
			CO:4 Providing students with a formal treatment of probability theory
			CO:5 Formulate and solve problems involving random variables and apply statistical methods for analyzing experimental data
5	II/I	Fluid Mechanics	CO1: Apply conservation laws to derive governing equations of fluid flows
			CO2: Compute hydrostatic and hydrodynamic forces.
			CO3: Analyze and design simple pipe systems.
			CO4: Apply principles of dimensional analysis to design experiments.
			CO5: Compute drag and lift coefficients.
6	II/I	Surveying Lab	CO1: Able to perform chain survey and plotting of closed traverse and also obstacles
			CO2: Determines distance between two inaccessible points with compass
			CO3: Perform reduced level and distances using tachometric survey
			CO4: Able to perform trigonometric leveling using theodolite for heights and distances problems.
			CO5: Determines Radiation method, intersection methods by plane table survey
7	II/I	Strength of Materials Lab	CO1: Conduct tension test on materials like steel etc.
			CO2: Conduct compression tests on spring, wood and concrete
			CO3: Conduct flexural and torsion test to determine elastic constants
			CO4: Determine hardness of metals


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			CO5:Write a technical laboratory report
8	II/I	Engineering geology Lab	CO:1Undestsnd weathering process and mass movement
			CO:2Distinguish geological formations
			CO:3Identify geological structures and process for rock mass quality
			CO:4Identify subsurface information and groundwater potential sites through geophysical investigations
			CO:5Apply geological principles for mitigation of natural hazards and select sites for dams and tunnels
9	II/I	Constitution of India	CO:1Understand the emergence and evaluation of Indian constitution
			CO:2Understand the structure and composition of Indian constitution
			CO:3Understand and analyses federalism in the Indian context
			CO:4Analyse panchayathi Raj institutions as a medium of decentralization
			CO:5Understand and analyze the three organs of the state in the contemporary scenario
10	II/II	Basic Electrical and Electronics Engineering	CO:1To analyze and solve electrical circuits using network laws and theorems.
			CO:2To understand and analyze basic electrical and magnetic circuits
			CO:3To study the working principles of electrical machines
			CO:4To introduce components of low voltage electrical installations
			CO:5To identify and characterize diodes and various types of transistors

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11	II/II	Basic Mechanical Engineering for Civil Engineering	CO1:To understand the mechanical equipment for the usage at civil engineering systems.
			CO:2To familiarize with the general principles and requirements for refrigeration, manufacturing
			CO:3To realize the techniques employed to construct civil engineering systems
			CO:4To understand the manufacturing process for the usage at civil engineering constructions
			CO:5Learning the design and working process of machine tools for the usage of construction field
12	II/II	Building Materials Construction and Planning	CO:1Define the basic terminology that is used in the industry
			CO:2Categorize different building materials, properties and their uses
			CO:3Understand the prevention of damage measures and good workmanship
			CO:4Explain different building services
			CO:5Explain different building plan services
13	II/II	Strength of Materials-II	CO:1Describe the concepts and principles, understand the theory of elasticity, and perform calculations, relative to the strength of mechanical components in particular to torsion and direct compression;
			CO:2To evaluate the strains and deformation that will result due to the elastic stresses developed within the materials for simple types of loading
			CO:3Analyze strength and stability of structural members subjected To Direct, and Direct and Bending stresses;
			CO:4Understand and evaluate the shear center and unsymmetrical bending.
			CO:5Frame an idea to design a system, component or process

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14	II/II	Hydraulics and Hydraulic Machinery	CO:1 Apply their knowledge of fluid mechanics in addressing problems in open channels and hydraulic machinery.
			CO:2 Understand and solve problems in uniform, gradually and rapidly varied flows in open channel in steady state conditions.
			CO:3 Apply dimensional analysis and to differentiate the model, prototype and similitude conditions for practical problems.
			CO:4 Get the knowledge on different hydraulic machinery devices and its principles that will be utilized in hydropower development and for other practical usages
			CO:5 Students able to know the performance of single stage and multistage pumps
15	II/II	Structural Analysis-I	CO:1 An ability to apply knowledge of mathematics, science, and engineering
			CO:2 Analyse the statically indeterminate bars and continuous beams
			CO:3 Draw strength behaviour of members for static and dynamic loading
			CO:4 Calculate the stiffness parameters in beams and pin jointed trusses.
			CO:5 Understand the indeterminacy aspects to consider for a total structural system
16	II/II	Computer aided Civil Engineering Drawing	CO:1 Use the Autocad commands for drawing 2D & 3D building drawings required for different civil engg applications.
			CO:2 Plan and draw Civil Engineering Buildings as per aspect and orientation.
			CO:3 Presenting drawings as per user requirements and preparation of technical report
17	II/II	Hydraulics and Hydraulic Machinery Lab	CO:1 Describe the basic measurements techniques of fluid mechanics and its appropriate application.
			CO:2 Interpret the results obtained in the laboratory for various experiments

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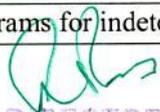
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			CO:3 Discover the practical working of Hydraulic machines different types of Turbines, pumps, and other miscellaneous hydraulic machines
			CO:4 Compare the results of analytical models introduced in lecture to the actual behaviour of real fluid flows and draw correct and sustainable conclusions.
			CO:5 Write a technical laboratory report
18	II/II	Basic Electrical and Electronics Engineering Lab	CO:1 To analyze and solve electrical circuits using network laws and theorems.
			CO:2 To understand and analyze basic electrical and magnetic circuits
			CO:3 To study the working principles of electrical machines
			CO:4 To introduce components of low voltage electrical installations
			CO:5 To identify and characterize diodes and various types of transistors
19	II/II	Gender Sensitization Lab	CO:1 Students will have developed a better understanding of important issues related to gender in contemporary India.
			CO:2 Students will attain a finer grasp of how gender discrimination works in our society and how to counter it.
			CO:3 Students will acquire insight into the gendered division of labour and its relation to politics and economics.
			CO:4 Men and women students and professionals will be better equipped to work and live together as equals.
			CO:5 Students will develop a sense of appreciation of women in all walks of life
20	III/I	Structural Analysis-II	CO:1 Analyze the two hinged arches.
			CO:2 Solve statically indeterminate beams and portal frames using classical methods
			CO:3 Sketch the shear force and bending moment diagrams for indeterminate


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			structures.
			CO:4Formulate the stiffness matrix and analyze the beams by matrix methods
			CO:5Analyze to know the influence lines for indeterminate structures
21	III/I	Geotechnical Engineering	CO:1Characterize and classify the soils
			CO:2Able to estimate seepage, stresses under various loading conditions and compaction characteristics
			CO:3Able to analyse the compressibility of the soils
			CO:4Able to understand the strength of soils under various drainage conditions
			CO:5Able to know the failure mechanism and the shear strength of soils
22	III/I	Structural Engineering-I (RCC)	CO:1Compare and design the singly reinforced, doubly reinforced and flanged sections.
			CO:2Design the axially loaded, uniaxial and biaxial bending columns
			CO:3Classify the footings and design the isolated square, rectangular and circular footings
			CO:4Distinguish and design the one-way and two-way slabs.
			CO:5Students able to know the design of footings for different foundations
23	III/I	Transportation Engineering	CO:1An ability to apply the knowledge of mathematics, science and engineering in the areas of traffic engineering, highway development and maintenance
			CO:2An ability to design, conduct experiments to assess the suitability of the highway materials like soil, bitumen, aggregates and a variety of bituminous mixtures. Also the students will develop the ability to interpret the results and assess the suitability of these materials for construction of highways.
			CO:3An ability to design flexible and rigid highway pavements for varying traffic compositions as well as soil subgrade and environmental conditions using standards stipulated by Indian Roads Congress.

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			CO:4An ability to evaluate the structural and functional conditions of in-service highway pavements and providesolution in the form of routine maintenance measures or designed overlays using Indian Roads congress guidelines
			CO:5An ability to assess the issue related to road traffic and provide engineering solutions supported with an understanding of road user psychological and behavioural patterns.
24	III/I	Concrete Technology	CO:1Determine the properties of concrete ingredients i.e. cement, sand, coarse aggregate by conducting differenttests.
			CO:2Recognize the effects of rheology and early age properties of concrete on its long term behaviour.
			CO:3Apply the use of various chemical admixtures and mineral additives to design cement-based materials with tailor-made properties
			CO:4Use advanced laboratory techniques to characterize cement-based materials.
			CO:5Perform mix design and engineering properties of special concretes such as high-performance concrete, self-compacting concrete, and fibre reinforced concrete.
25	III/I	Engineering Economics and Accountancy	CO:1To perform and evaluate present and future worth of the alternate projects and to appraise projects by using traditional and DCF methods.
			CO:2To carry out cost benefit analysis of projects and to calculate BEP of different alternative projects.
26	III/I	Highway Engineering and Concrete	CO:1Categorize the test on materials used Civil Engineering Buildings & Pavement constructions

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		Technology Lab	CO:2To perform the tests on concrete for it characterization
			CO:3To design concrete mix proportioning by using Indian standard method
			CO:4Examine the tests performed for bitumen mixes
			CO:5To prepare a laboratory report
27	III/I	Geotechnical Engineering Lab	CO:1At the end of the course, the students will be able to classify and evaluate the behaviour of the soils subjected to various loads.
28	III/I	Advanced Communication Skills Lab	CO:1The students will able to use english language both written and spoken
			CO:2The students will able to enrich their comprehension ability and fluency
			CO:3To understand the concept and will gain confidence level in the appearing in the jam, debate role-play
			CO:4The students will able to develop the study skills and communication skills in formal and informal situations
			CO:5The students will able to improve the language proficiency in English with writing skills also
29	III/I	Intellectual Property Rights	CO:1Intellectual property, international organizations, agencies and treaties, importance of intellectual property rights.
			CO:2Purpose and function of trademarks, acquisition of trade mark rights
			CO:3Foundation of patent law, patent searching process, ownership rights and transfer
			CO:4New development of intellectual property: new developments in trade mark law; copy right law,patent law, intellectual property audits
30	III/II	Hydrology and Water Resource	CO:1Understand the different concepts and terms used in engineering hydrology



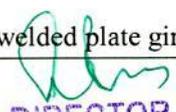
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		Engineering	CO:2To identify and explain various formulae used in estimation of surface and ground water hydrology components
			CO:3Demonstrate their knowledge to connect hydrology to the field requirement
			CO:4The students will able to know the to increase the ground water table depends upon claimmatic factors
			CO:5To understand and the importance of canal regulation system in irrigation
31	III/II	Environmental Engineering	CO:1Assess characteristics of water and wasterwater and their impacts
			CO:2Estimate quantities of water and wasterwater and plan conveyance components
			CO:3Design components of water and waste water treatment plants
			CO:4Be conversant with issues of air pollution and control
			CO:5To understand the concept of various unit operations and design of water treatment systems
32	III/II	Foundation Engineering	CO:1Understands the principles and methods of Geotechnical Exploration
			CO:2Decide the suitability of soils and check the stability of slopes
			CO:3Calculate lateral earth pressures and check the stability of retaining walls
			CO:4Analyse and design the shallow and deep foundations
			CO:5Student will able to analyse and design of well foundations
33	III/II	Structural Engineering-II (Steel)	CO:1Analyze the tension members, compression members.
			CO:2Design the tension members, compression members and column bases and joints and connections
			CO:3Analyze and design the beams including built-up sections and beam and connections.
			CO:4Identify and Design the various components of welded plate girder


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			including stiffeners
			CO:5Analyse and design of roof trusses
34	III/II	Prestressed Concrete	CO:1Acquire the knowledge of evolution of process of prestressing
			CO:2Acquire the knowledge of various prestressing techniques
			CO:3Develop skills in analysis design of prestressed structural elements as per the IS codai provisions
			CO:4To develop transformation of stresses in pretensioned members
			CO:5Students will able to know the composite beams and deflections
35	III/II	Environmental Engineering Lab	CO:1Understand about the equipment used to conduct the test procedures
			CO:2Perform the experiments in the lab
			CO:3Examine and Estimate water waste water,air and soil Quality
			CO:4Compare the water, air quality standards with prescribed standards set by the local governments
			CO:5Develop a report on the quality aspect of the environment
36	III/II	Computer Aided Design Lab	CO:1Model the geometry of real-world structure represent the physical model of structural element /structure
			CO:2Perform analysis
			CO:3Design the structural elements and a system as per IS Codes
			CO:4Interpret from the post processing results
37	III/II	Environmental	CO:1Get the knowledge about the differents types of resources like land, water, mineral and energy and also about the effects of environments by the usage of

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		Science	these resources
			CO:2Get the information about ecosystem and also about its functions like food chain Ecological pyramids etc
			CO:3Gain the knowledge about the ecosystem diversity its values and also about the importance of the endemic species and different techniques involved in its conservation
			CO:4Gain the knowledge about the different types of pollutions and their control technologies, Waste water treatment , Bio medical waste management etc
			CO:5Get the complete information about EIA-Environmental Impact Assessment ,Sustainable developmental activities , environmental policies and regulations awareness among people
38	III/II	Advanced Structural Analysis	CO:1Analyze the multistory building frames by various approximate methods
			CO:2Solve the continuous beams portal frames by matrix methods of analysis
			CO:3Analyze and design of large frames with or without shear walls
			CO:4Analyze and design plane truss continuous beams
			CO:5\students will able to know the structural behaviour of large frames
39	IV/I	Transportation Engineering-II	CO:1Understand Plan highway networks
			CO:2Design highway geometrics
			CO:3Design Intersections and prepare traffic management plans.
			CO:4Design flexible and rigid pavements
			CO:5An ability to assess the issue related to road traffic and provide engineering solutions supported with an understanding of road user



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			psychological and behavioural patterns.
40	IV/I	Estimation Quantity Surveying and Valuation	CO:1 Understand the technical specifications for various works to be performed for a project
			CO:2 Quantify the worth of a structure by evaluating the quantities of constituents, derive their cost rates
			CO:3 Understand how competitive bidding works and how to submit a bidding proposal
			CO:4 An idea of how to optimize construction projects based on costs
			CO:5 An ability to put forward ideas and understandings to others with effective communication processes
41	IV/I	Ground Improvement Techniques	CO 1 Identify the purpose of ground improvement techniques to obtain the suitable construction site for long-lasting structures.
			CO 2 List the problematic soils and its characteristics to select the suitable method for ground improvement.
			CO 3 Illustrate the various methods of ground improvement techniques to increase load bearing capacity of beneath and surface soils
			CO 4 Apply the methods of physical, chemical, mechanical and hydraulic for obtaining void less soils
			CO 5 Explain the various grouting techniques and its applications for improving loadbearing of beneath soils
42	IV/I	Traffic Engineering	CO:1 Understand basic principle of Traffic Engineering
			CO:2 Analyze parking data and model accidents
			CO:3 Determine capacity and LOS.
			CO:4 To provide engineering techniques to achieve safe and efficient movement of people and goods on roadways
			CO:5 Students will be able to know deal with traffic issues including safety planning design operation and control

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43	IV/I	Utilization of Electrical Energy	CO:1Able to maintain electric drives used in an industries
			CO:2Able to identify a heating/ welding scheme for a given application
			CO:3Able to maintain/ Trouble shoot various lamps and fittings in use
			CO:4Able to figure-out the different schemes of traction schemes and its main components
			CO:5Able to design a suitable scheme of speed control for the tractuion systems
			CO:6Able to identify the job/higher education / research opportunities in Electric Utilization industry
44	IV/I	Airports, Railways and Waterways	CO:1At the end of this course, the students will develop:
			CO:2An ability to design of runways and taxiways.
			CO:3An ability to design the infrastructure for large and small airports
			CO:4An ability to design various crossings and signals in Railway Projects.
			CO:5An ability plan the harbors and ports projects including the infrastructure required for new ports and harbors.
45	IV/I	Non-Conventional Energy Sources	CO:1Demonstrate the generation of electricity from various Non-Conventional sources of energy, have a working knowledge on types of fuel cells.
			CO:2Estimate the solar energy, Utilization of it, Principles involved in solar energy collection and conversion of it to electricity generation.
			CO:3Explore the concepts involved in wind energy conversion system by studying its components, types and performance
			CO:4 Illustrate ocean energy and explain the operational methods of their utilization

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Abdullapur (V), Abdullapurmet (M), R.R Dist. Hyderabad – 501505

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			CO:5Acquire the knowledge on Geothermal energy.
46	IV/I	Ground Water Hydrology	CO:1 Various components of hydrologic cycle that affect the movement of water in the earth
			CO:2 Various Stream flow measurements technique
			CO:3 the concepts of movement of ground water beneath the earth
			CO:4 the basic requirements of irrigation and various irrigation techniques, requirements of the crops
			CO:5 Distribution systems for canal irrigation and the basics of design of unlined and lined irrigation canals design CO- 6 Basic components of river Training works.
47	IV/I	Transportation Engineering Lab	CO:1At the end of the course, the students will be able to Asses for Highway construction properties of highway materials
48	IV/I	Environmental Engineering Lab	CO:1The students will develop the knowledge in mathematics science and engineering
			CO:2The students will be able to design and conduct experiments interpret and analyze data and report results
			CO:3The students will demonstrate the ability to design of civil Engineering systems or a process that meets desired specifications and requirements related to all fields of civil Engineering
			CO:4The students will demonstrate the ability to function on engineering and science laboratory teams, asa well as on multidisciplinary design teams
			CO:5The students will demonstrate the ability to identify, formulate and solve Civil engineering problems
49	IV/I	Industry Oriented Mini Project	CO:1Formulate a real world problem and develop its requirements
			CO:2Ability to plan and execute well defined objective
			CO:3Ability to work in team at component level
			CO:4Ability to solve problems on analysis & design

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			CO:5Self learn new softwares and /or techniques that contribute to the software solution of the project
50	IV/I	Seminar	CO:1The students will be able to recall existing technologies in the area of Designing
			CO:2The students will be to able describe compare and evaluate different technologies
			CO:3The students will be to able decide the area of interst
			CO:4The students will demonstrate the ability to identify, formulate and solve Civil engineering problems
			CO:5The students will be to able to write technical reports
51	IV/II	Solid Waste Management	CO:1Identify the physical and chemical composition of wastes
			CO:2Analyze the functional elements for soild waste management
			CO:3Analyze the functional elements for liquid waste management
			CO:4To understand the effluent treatment Plants and its disposal
			CO:5Plan measures for reclamation of saline soils
52	IV/II	Industrial Waste Water Treatment	CO:1Identify the characteristics of industrial wastewaters
			CO:2Describe pollution effects of disposal of industrial effluents
			CO:3Identify and design treatment options for industrial wastewater
			CO:4Formulate environmental management plan
			CO:5Suggestion methods for safe disposal of hazardous wasters
53	IV/II	Pavement Design	CO:1Characterize the response characteristics of soil, aggregate, asphalt mixes
			CO:2Analyze flexible pavements
			CO:3Analyze rigid pavements

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			CO:4Design a flexible pavement using IRC, Asphalt Institute and AASHTO methods
			CO:5Design a rigid pavement using IRC, and AASHTO methods
54	IV/II	Major Project	CO:1Student will able to work in a group as a part of multidisciplinary team with professional responsibility
			CO:2Student will able to Analyse and design of structure to meet desired needs with in realistic constraints
			CO:3Student is capable of doing Review litereture and finalizes problem statement
			CO:4Student can plan activity schedule and implementation in agiven time span
			CO:5Student will be able to prepare and present technical report


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