



DEPARTMENT OF CIVIL ENGINEERING

SE CIVIL (2019 Pattern)

Semester-I

Course Name :	Building Technology and Architectural Planning	Course Code :	201001
CO's No	CO Statements		
CO 201001.1	Identify types of building and basic requirements of building components.		
CO 201001.2	Make use of Architectural Principles and Building byelaws for building construction		
CO 201001.3	Plan effectively various types of Residential Building forms according to their utility, functions with reference to National Building Code.		
CO 201001.4	Plan effectively various types of Public Buildings according to their utility functions with reference to National Building Code		
CO 201001.5	Make use of Principles of Planning in Town Planning, Different Villages and Safety aspects.		
CO 201001.6	Understand different services and safety aspects		

Zope M. T.

Prof. Zope M. T.

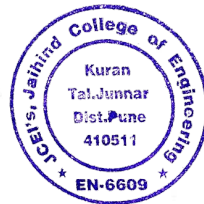
Course Teacher

Supekar G. S.

Prof. Supekar G. S.

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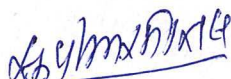


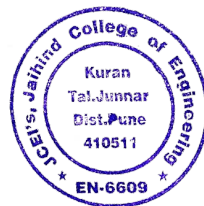
DEPARTMENT OF CIVIL ENGINEERING

SE CIVIL (2019 Pattern)

Course Name :	Mechanics of Structures	Course Code :	201002
CO's No	CO Statements		
CO 201002.1	Understand concept of stress-strain and determine different types of stress, strain in determinate, indeterminate homogeneous and composite structures		
CO 201002.2	Calculate shear force and bending moment in determinate beams for different loading conditions and illustrate shear force and bending moment diagram		
CO 201002.3	Explain the concept of shear and bending stresses in beams and demonstrate shear and bending stress distribution diagram		
CO 201002.4	Use theory of torsion to determine the stresses in circular shaft and understand concept of Principal stresses and strains		
CO 201002.5	Analyze axially loaded and eccentrically loaded column.		
CO 201002.6	Determine the slopes and deflection of determinate beams and trusses.		


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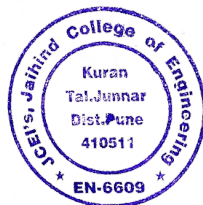
DEPARTMENT OF CIVIL ENGINEERING

SE CIVIL (2019 Pattern)

Course Name :	Fluid Mechanics	Course Code :	201003
CO's No	CO Statements		
CO201003.1	Understand the use of Fluid Properties, concept of Fluid statics, basic equation of Hydrostatics, measurement of fluid pressure, buoyancy & floatation and its application for solving practical problems.		
CO201003.2	CO2: Understand the concept of fluid kinematics with reference to Continuity equation and fluid dynamics with reference to Modified Bernoulli's equation and its application to practical problems of fluid flow		
CO201003.3	CO3: Understand the concept of Dimensional analysis using Buckingham's π theorem, Similarity & Model Laws and boundary layer theory and apply it for solving practical problems of fluid flow.		
CO201003.4	CO4: Understand the concept of laminar and turbulent flow and flow through pipes and its application to determine major and minor losses and analyze pipe network using Hardy Cross method.		
CO201003.5	CO5: Understand the concept of open channel flow, uniform flow and depth-Energy relationships in open channel flow and make the use of Chezy's and Manning's formulae for uniform flow computation and design of most economical channel section		
CO201003.6	CO6: Understand the concept of gradually varied flow in open channel and fluid flow around submerged objects, compute GVF profile and calculate drag and lift force on fully submerged body.		

Prof. Mehetre S. M.

Course Teacher



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DEPARTMENT OF CIVIL ENGINEERING

SE CIVIL (2019 Pattern)

Course Name :	Engineering Mathematics III	Course Code :	207001
CO's No	CO Statements		
CO 207001.1	Solve Higher order linear differential equations and its applications to modelling and analyzing Civil engineering problems such as bending of beams		
CO 207001.2	Solve System of linear equations using direct & iterative numerical techniques and develop solutions for ordinary differential equations using single step & multistep methods applied to hydraulics		
CO 207001.3	Apply Statistical methods like correlation		
CO 207001.4	Perform Vector differentiation & integration		
CO 207001.5	Solve Partial differential equations such as wave equation		

Prof. Doke K. V.

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DEPARTMENT OF CIVIL ENGINEERING

SE CIVIL (2019 Pattern)

Course Name :	Engineering Geology	Course Code :	207003
CO's No	CO Statements		
CO 207003 .1	Explain about the basic concepts of engineering geology, various rocks, and minerals both in lab and on the fields and their inherent characteristics and their uses in civil engineering constructions.		
CO 207003 .2	Exploring the importance of mass wasting processes and various tectonic processes that hampers the design of civil engineering projects and its implications on environment and sustainability		
CO 207003 .3	Recognize effect of plate tectonics, structural geology and their significance and utility in civil engineering activities.		
CO 207003 .4	Incorporate the various methods of survey, to evaluate and interpret geological nature of the rocks present at the foundations of the dams, percolation tanks, tunnels and to infer site / alignment/ level free from geological defects		
CO 207003 .5	Assess the Importance of geological nature of the site, precautions and treatments to improve the site conditions for dams, reservoirs, and tunnels		
CO 207003 .6	Explain geological hazards and importance of ground water and uses of common building stones.		

R Kamble

Prof. Kamble R. B.

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DEPARTMENT OF CIVIL ENGINEERING

SE CIVIL (2019 Pattern)

Course Name :	Audit Course I -Awareness to Civil Engineering Practices	Course Code :	201007
CO's No	CO Statements		
CO 201007.1	Describe functioning/working of different types of industries/sectors in Civil Engineering.		
CO 201007.2	Describe drawings and documents required and used in different Civil Engineering works.		
CO 201007.3	Understand the importance of Code of Ethics to be practiced by a Civil Engineer and also understand the duties and responsibilities as a Civil Engineer.		
CO 201007.4	Understand different health and safety practices on the site.		


Prof. Ghuge S. S.
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DEPARTMENT OF CIVIL ENGINEERING

SE CIVIL (2019 Pattern)

Course Name :	Audit Course I -Road Safety Management	Course Code :	201007
CO's No	CO Statements		
CO 201007.1	Summarize the existing road transport scenario of our country		
CO 201007.2	Explain the method of road accident investigation		
CO 201007.3	Describe the regulatory provisions needed for road safety		
CO 201007.4	Identify the safety issues for a road and make use of IRC's road safety manual for conducting road safety audit		

Swati
Prof. Ghuge S. S.

Course Teacher

Supekhar G. S.
Prof. Supekar G. S.

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DEPARTMENT OF CIVIL ENGINEERING

SE CIVIL (2019 Pattern)

Semester-II

Course Name :	Geotechnical Engineering	Course Code :	201008
CO's No	CO Statements		
CO 201008.1	Identify and classify the soil based on the index properties and its formation process		
CO 201008.2	Explain permeability and seepage analysis of soil by construction of flow net.		
CO 201008.3	Illustrate the effect of compaction on soil and understand the basics of stress distribution.		
CO 201008.4	Express shear strength of soil and its measurement under various drainage conditions		
CO 201008.5	Evaluate the earth pressure due to backfill on retaining structures by using different theories.		
CO 201008.6	Analysis of stability of slopes for different types of soils.		

R. B. Kambale

Prof. Kambale R. B.

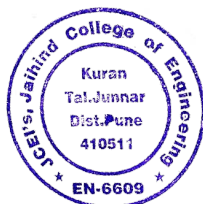
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DEPARTMENT OF CIVIL ENGINEERING

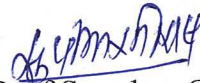
SE CIVIL (2019 Pattern)

Course Name : Surveying	Course Code : 201009
CO's No	CO Statements
CO 201009.1	Define and Explain basics of plane surveying and differentiate the instruments used for it.
CO 201009.2	Express proficiency in handling surveying equipment and analyze the surveying data from this equipment.
CO 201009.3	Describe different methods of surveying and find relative positions of points on the surface of earth.
CO 201009.4	Execute curve setting for civil engineering projects such as roads, railways etc.
CO 201009.5	Articulate advancements in surveying such as space based positioning systems
CO 201009.6	Differentiate map and aerial photographs, also interpret aerial photographs.



Prof. Zope M. T.

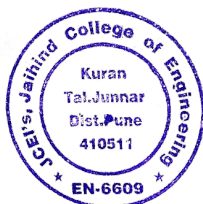
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SE CIVIL (2019 Pattern)

Course Name : Concrete Technology	Course Code : 201010
CO's No	CO Statements
CO201010.1	Able to select the various ingredients of concrete and its suitable proportion to achieved desired strength.
CO201010.2	Able to check the properties of concrete in fresh and hardened state
CO201010.3	Get acquainted to concreting equipments, techniques and different types of special concrete.
CO201010.4	Able to predict deteriorations in concrete and get acquainted to various repairing methods and techniques.

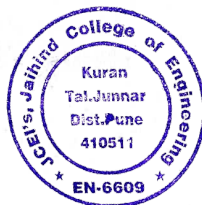
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DEPARTMENT OF CIVIL ENGINEERING

SE CIVIL (2019 Pattern)

Course Name :	Structural Analysis	Course Code :	201011
CO's No	CO Statements		
CO201011.1	Understand the basic concept of static and kinematic indeterminacy and analysis of indeterminate beams.		
CO201011.2	Analyze redundant trusses and able to perform approximate analysis of multi-story multi-bay frames.		
CO201011.3	Implement application of the slope deflection method to beams and portal frames.		
CO201011.4	Analyze beams and portal frames using moment distribution method.		
CO201011.5	Determine response of beams and portal frames using structure approach of stiffness matrix method.		
CO201011.6	Apply the concepts of plastic analysis in the analysis of steel structures.		


Prof. Supekar G. S.

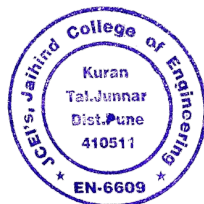
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SE CIVIL (2019 Pattern)

Course Name : Project Management	Course Code : 201012
CO's No	CO Statements
CO 201012.1	Describe project life cycle and the domains of Project Management.
CO 201012.2	Explain networking methods and their applications in planning and management
CO 201012.3	Categorize the materials as per their annual usage and also Calculate production rate of construction equipment
CO 201012.4	Demonstrates resource allocation techniques and apply it for manpower planning
CO 201012.5	Understand economical terms and different laws associated with project management
CO 201012.6	Apply the methods of project selection and recommend the best economical project.

M. M. Konde

Prof. Konde M.

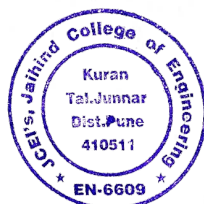
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DEPARTMENT OF CIVIL ENGINEERING

SE CIVIL (2019 Pattern)

Course Name :	Project Based Learning	Course Code :	201017
CO's No	CO Statements		
CO201017.1	Identify the community/ practical/ societal needs and convert the idea into a product/ process/ service.		
CO201017.2	Analyze and design the physical/ mathematical/ ICT model in order to solve identified problem/project.		
CO201017.3	Create; work in team and applying the solution in practical way to specific problem.		

Rscamble

Prof.Kambale R. B.

Course Teacher

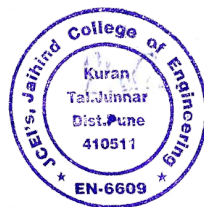
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DEPARTMENT OF CIVIL ENGINEERING

SE CIVIL (2019 Pattern)

Course Name :	Audit Course-Technical Communication	Course Code:	208292-I
CO's No	CO Statements		
CO 208292-I.1	To differentiate between various types of communication		
CO 208292-I.2	To write technical proposals, reports, and research papers.		
CO 208292-I.3	To demonstrate effective presentation skills		

Prof. Zope M. T.

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DEPARTMENT OF CIVIL ENGINEERING

SE CIVIL (2019 Pattern)

Course Name :	Audit Course- Project Management	Course Code:	208292-II
CO's No	CO Statements		
CO 208292-II.1	To practice modern project management techniques		
CO 208292-II.2	To develop and implement a project plan and business case.		
CO 208292-II.3	To develop a Project Manager skillset		

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