



DEPARTMENT OF CIVIL ENGINEERING

TE CIVIL (2019 Pattern)

Semester-I

Course Name :	Hydrology and Water Resource Engineering	Course Code :	301001
CO's No	CO Statements		
CO 301001.1	Understand government organizations apply & analyze precipitation & its abstractions.		
CO 301001.2	Understand, apply & analyze runoff, runoff hydrographs and gauging of streams.		
CO 301001.3	Understand, apply & analyze floods, hydrologic routing & Q-GIS software in hydrology.		
CO 301001.4	Understand, apply & analyze reservoir planning, capacity of reservoir & reservoir economics.		
CO 301001.5	Understand water logging & water management apply & analyze ground water hydrology		
CO 301001.6	Understand irrigation, piped distribution network and canal revenue, apply and analyze crop water requirement.		

Ramble

Prof.Kamble R. B.

Course Teacher



Supekar

Prof.Supekar G. S.

Head of Department

(Civil Engg.)

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Kuran, Tal. Junnar, Dist. Pune




DEPARTMENT OF CIVIL ENGINEERING

TE CIVIL (2019 Pattern)

Course Name :	Water Supply Engineering	Course Code :	301002
CO's No	CO Statements		
CO 301002.1	Define identify, describe reliability of water sources, estimate water requirement for various sectors.		
CO 301002.2	Ascertain and interpret water treatment method required to be adopted with respect to source and raw water characteristics		
CO 301002.3	Design various components of water treatment plant and distribution system.		
CO 301002.4	Understand and compare contemporary issues and advanced treatment operations and process available in the market, including packaged water treatment plants.		
CO 301002.5	Design elevated service reservoir capacity and understand the rainwater harvesting.		
CO 301002.6	Understand the requirement of water treatment plant for infrastructure and Government scheme.		

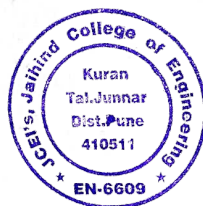

Prof. Ghuge S. S.

Course Teacher


Prof. Supekar G. S.

Head of Department

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DEPARTMENT OF CIVIL ENGINEERING

TE CIVIL (2019 Pattern)

Course Name :	Engineering Economics and Financial Management	Course Code :	301004
CO's No	CO Statements		
CO 301004.1	Understand basics of construction economics.		
CO 301004.2	Develop an understanding of financial management in civil engineering projects.		
CO 301004.3	Prepare and analyze the contract account.		
CO 301004.4	Decide on right source of fund for construction projects.		
CO 301004.5	Understand working capital and its estimation for civil engineering projects.		
CO 301004.6	Illustrate the importance of tax planning & understand role of financial regulatory bodies		

Prof. Dhede M. V.

Course Teacher



Prof. Supekar G. S.
Head of Department
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DEPARTMENT OF CIVIL ENGINEERING

TE CIVIL (2019 Pattern)

Course Name :	Design of Steel Structures	Course Code :	301003
CO's No	CO Statements		
CO301003.1	Demonstrate knowledge about the types of steel structures, steel code provisions and design of the adequate steel section subjected to tensile force.		
CO301003.2	Determine the adequate steel section subjected to compression load and design of built up columns along with lacing and battening.		
CO301003.3	Design eccentrically loaded column for section strength and column bases for axial load and uniaxial bending.		
CO301003.4	Design of laterally restrained and unrestrained beam with and without flange plate using rolled steel section.		
CO301003.5	Analyze the industrial truss for dead, live and wind load and design of gantry girder for moving load.		
CO301003.6	Understand the role of components of welded plate girder and design cross section for welded plate girder including stiffeners and its connections.		


Prof. Dighe S. J.

Course Teacher


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DEPARTMENT OF CIVIL ENGINEERING

TE CIVIL (2019 Pattern)

Course Name :	Elective I: Construction Management	Course Code :	301005 c
CO's No	CO Statements		
CO 301005 c.1	Understand the overview of construction sector.		
CO 301005 c.2	Illustrate construction scheduling, work study and work measurement.		
CO 301005 c.3	Acquaint various labour laws and financial aspects of construction projects.		
CO 301005 c.4	Explain elements of risk management and value engineering.		
CO 301005 c.5	State material and human resource management techniques in construction.		
CO 301005 c.6	Understand basics of artificial intelligence techniques in civil engineering.		


Prof. Mehetre S. M.

Course Teacher




Prof. Supekar G. S.

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Head of Department

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DEPARTMENT OF CIVIL ENGINEERING

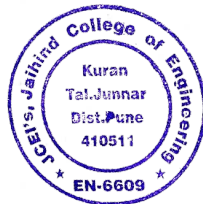
TE CIVIL (2019 Pattern)

Course Name :	Seminar	Course Code :	301006
CO's No	CO Statements		
CO301006.1	Appraise the current civil engineering research / techniques / developments / interdisciplinary areas.		
CO301006.2	Review and organize literature survey utilizing technical resources, journals etc.		
CO301006.3	Evaluate and draw conclusions related to technical content studied.		
CO301006.4	Demonstrate the ability to perform critical writing by preparing a technical report.		
CO301006.5	Develop technical writing and presentation skills.		

Swati

Prof. Ghuge S. S.

Course Teacher



G. S. Supekar

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DEPARTMENT OF CIVIL ENGINEERING

TE CIVIL (2019 Pattern)

Course Name :	Audit Course I: Professional Ethics and Etiquettes	Course Code :	301011 a
CO's No	CO Statements		
CO 301011 a.1	Understand the basic perception of profession, professional ethics, various moral issues and uses of ethical theories		
CO 301011 a.2	Understand various social issues, industrial standards, code o ethics and role of professional ethics in engineering field.		
CO 301011 a.3	Follow ethics as an engineering professional and adopt good standards and norms of engineering practice		
CO 301011 a.4	Apply ethical principles to resolve situations that arise in their professional lives		

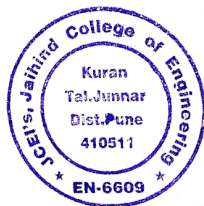
Prof. Zope M.T.

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DEPARTMENT OF CIVIL ENGINEERING

TE CIVIL (2019 Pattern)

Course Name :	Audit Course I: Sustainable Energy Systems	Course Code :	301011 b
CO's No	CO Statements		
CO301011 b .1	To demonstrate an overview of the main sources of renewable energy.		
CO301011 b .2	To understand benefits of renewable and sustainable energy systems.		

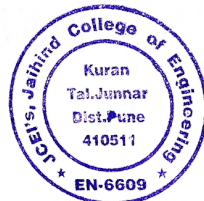
Prof. Zope M.T.

Course Teacher

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DEPARTMENT OF CIVIL ENGINEERING

TE CIVIL (2019 Pattern)

Semester-II

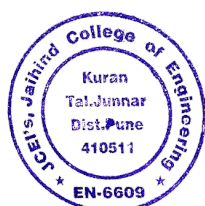
Course Name :	Waste Water Engineering	Course Code:	301012
CO's No	CO Statements		
CO 301012.1	Recall sanitation infrastructure, quantification and characterization of wastewater, natural purification of streams		
CO 301012.2	Design preliminary and primary unit operations in waste water treatment plant		
CO 301012.3	Understand theory and mechanism of aerobic biological treatment system and to design activated sludge process		
CO 301012.4	Understand and design suspended and attached growth wastewater treatment systems		
CO 301012.5	Explain and apply concept of contaminant removal by anaerobic, tertiary and emerging wastewater treatment systems		
CO 301012.6	Compare various sludge management systems and explain the potential of recycle and reuse of wastewater treatment		

Prof. Mehetre S. M.

Course Teacher

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DEPARTMENT OF CIVIL ENGINEERING

TE CIVIL (2019 Pattern)

Course Name :	Design of Reinforced Concrete Structures	Course Code:	301013
CO's No	CO Statements		
CO 301013.1	Apply relevant IS provisions to ensure safety and serviceability of structures, understand the design philosophies and behaviour of materials: steel & concrete.		
CO 301013.2	Recognize mode of failure as per LSM and evaluate moment of resistance for singly, doubly rectangular, and flanged sections.		
CO 301013.3	Design & detailing of rectangular one way and two-way slab with different boundary conditions		
CO 301013.4	Design & detailing of dog legged and open well staircase		
CO 301013.5	Design & detailing of singly/doubly rectangular/flanged beams for flexure, shear, bond and torsion.		
CO 301013.6	Design & detailing of short columns subjected to axial load, uni-axial/bi-axial bending and their footings.		

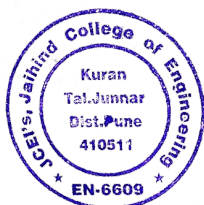
Prof. Bharitkar D.V.

Course Teacher

Prof. Supekar G. S.

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Head of Department

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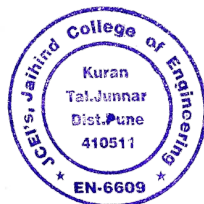
DEPARTMENT OF CIVIL ENGINEERING

TE CIVIL (2019 Pattern)

Course Name :	Remote Sensing and Geographic Information System	Course Code:	301014
CO's No	CO Statements		
CO 301014.1	Articulate fundamentals and principles of RS techniques.		
CO 301014.2	Demonstrate the knowledge of remote sensing and sensor characteristics.		
CO 301014.3	Distinguish working of various spaces-based positioning systems.		
CO 301014.4	Analyze the RS data and image processing to utilize in civil engineering		
CO 301014.5	Explain fundamentals and applications of RS and GIS		
CO 301014.6	Acquire skills of data processing and its applications using GIS		


Prof. Dighe S. J.

Course Teacher




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DEPARTMENT OF CIVIL ENGINEERING

TE CIVIL (2019 Pattern)

Course Name :	Elective II: Architecture and Town Planning	Course Code:	301015 e
CO's No	CO Statements		
CO301015 e.1	Apply the principles of architectural planning and landscaping for improving quality of life		
CO301015 e.2	Understand the confronting issues of the area and apply the acts.		
CO 301015 e.3	Evaluate and defend the proposals.		
CO 301015 e.4	Appraise the existing condition and to develop the area for betterment.		

R Kamble

Prof. Kamble R. B.

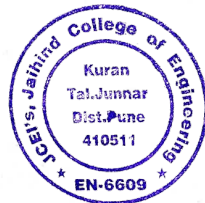
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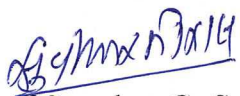


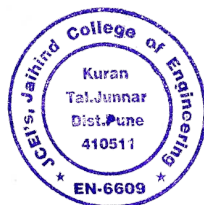
DEPARTMENT OF CIVIL ENGINEERING

TE CIVIL (2019 Pattern)

Course Name : Internship	Course Code: 301016
CO's No	CO Statements
CO 301016.1	To develop professional competence through industry internship
CO 301016.2	To apply academic knowledge in a personal and professional environment
CO 301016.3	To build the professional network and expose students to future employees
CO 301016.4	Apply professional and societal ethics in their day to day life
CO 301016.5	To become a responsible professional having social, economic and administrative considerations
CO 301016.6	To make own career goals and personal aspirations


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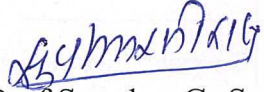
DEPARTMENT OF CIVIL ENGINEERING

TE CIVIL (2019 Pattern)

Course Name :	Audit Course II: Leadership and Personality Development	Course Code:	301021 a
CO's No	CO Statements		
CO 301021 a.1	Enhanced holistic development of students and improve their employability skills		

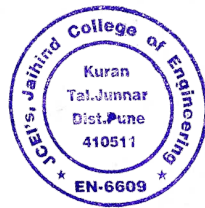

Prof. Mehetre S. M.

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DEPARTMENT OF CIVIL ENGINEERING

TE CIVIL (2019 Pattern)

Course Name :	Audit Course II: Industrial Safety	Course Code:	301021 b
CO's No	CO Statements		
CO 301021 b.1	Analyze the safety problem with its solution		


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