



DEPARTMENT OF CIVIL ENGINEERING

BE CIVIL (2019 Pattern)

Semester-I

Course Name :	Foundation Engineering	Course Code :	401001
CO's No	CO Statements		
CO 401001.1	Perform subsurface investigations for foundations using different methods.		
CO 401001.2	Estimate the bearing capacity of shallow foundations.		
CO 401001.3	Calculate immediate and primary consolidation settlement of shallow foundations.		
CO 401001.4	Understand the steps in geotechnical design of shallow foundations and well foundations.		
CO 401001.5	Analyze problems related to expansive soil and overcome them using design principles, construction techniques in black cotton soil.		


Prof. Dhede M. V.

Course Teacher


Prof. Supekar G. S.

Head of Department
Head of Department
(Civil Engg.)
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Kuran, Tal-Junnar, Dist. Pune




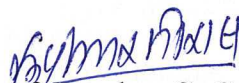


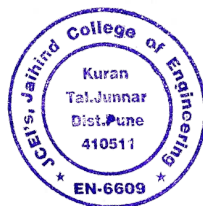
DEPARTMENT OF CIVIL ENGINEERING

BE CIVIL (2019 Pattern)

Course Name :	Transportation Engineering	Course Code :	401002
CO's No	CO Statements		
CO 401002.1	Understand principles and practices of transportation planning.		
CO 401002.2	Demonstrate knowledge of traffic studies, analysis and their interpretation.		
CO 401002.3	Design Geometric Elements of road pavement.		
CO 401002.4	Evaluate properties of highway materials as a part of road pavement.		
CO 401002.5	Appraise different types of pavements and their design.		
CO 401002.6	Understand the fundamentals of Bridge Engineering and Railway Engineering		


Prof. Ghuge S. S.
Course Teacher


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

BE CIVIL (2019 Pattern)

Course Name :	Elective III: Integrated Water Resources Planning and Management	Course Code :	401003 c
CO's No	CO Statements		
CO 401003c.1	Understand concerned organizations, IWRP & M objectives, principles, challenges, application & analysis of IWRP& M approaches & principles in a case study.		
CO 401003c.2	Understand PIM, WDS, WALMI, agriculture in the concept of integrated water resources, apply and analyze water requirements for food production		
CO 401003c.3	Understand assessment of surface and ground water quality, EIA, CPCB regulations, application & analysis of effluent quality standards as per CPCB		
CO 401003c.4	Understand water economics and funding, application & analysis of planning for a sustainable water future		
CO 401003c.5	Understand legal regulatory settings of IWRP & M, application & analysis of inter-basin water transfers and IWRP & M		
CO 401003c.6	Understand flood control & power generation for IWRP & M, application QIGIS for analysis of a basin for IWRP & M		


Prof. Dighe S. J.
Course Teacher




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DEPARTMENT OF CIVIL ENGINEERING

BE CIVIL (2019 Pattern)

Course Name :	Elective IV: Airport and Bridge Engineering	Course Code:	401004 d
CO's No	CO Statements		
CO 401004d.1	Understand the fundamental of airport.		
CO 401004d.2	Understand and design the runway and taxiway and drainage systems.		
CO 401004d.3	Understand the BIM, AR and VR in airport planning and pavement design.		
CO 401004d.4	Plan the lighting and marking of airport and heliport.		
CO 401004d.5	Estimate various components of bridge and loads on bridges.		
CO 401004d.6	Study and design of bridge structures.		

Zope M. T.

Prof. Zope M. T.

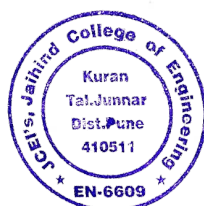
Course Teacher

Supekar G. S.

Prof. Supekar G. S.

Head of Department
Head of Department

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DEPARTMENT OF CIVIL ENGINEERING

BE CIVIL (2019 Pattern)

Course Name :	Project Stage I	Course Code:	401 005
CO's No	CO Statements		
CO 401005.1	Appraise the current Civil Engineering research/techniques/developments/interdisciplinary areas.		
CO 401005.2	Review and organize literature survey utilizing technical resources, journals etc.		
CO 401005.3	Evaluate and draw conclusions related to technical content studied.		
CO 401005.4	Demonstrate the ability to perform critical writing by preparing a technical report.		
CO 401005.5	Develop technical writing and presentation skills		

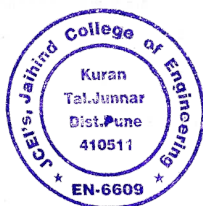
Prof. Supekar G. S.

Course Teacher

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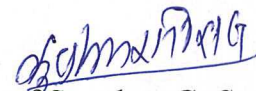


DEPARTMENT OF CIVIL ENGINEERING

BE CIVIL (2019 Pattern)

Course Name :	Computer Programming in Civil Engineering	Course Code:	401009
CO's No	CO Statements		
CO 401009.1	Understand basics of Python Programming		
CO 401009.2	Write Python codes for variety of problems in civil Engineering		


Prof. Mehetre S. M.
Course Teacher


Prof. Supekar G. S.
Head of Department
Head of Department

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DEPARTMENT OF CIVIL ENGINEERING

BE CIVIL (2019 Pattern)

Course Name :	Audit Course I a: Stress Management by Yoga	Course Code:	401010a
CO's No	CO Statements		
CO 401010a.1	Develop understanding of Yoga and its impact on human body and mind.		
CO 401010a.2	Learn different Yoga sans		
CO 401010a.3	Develop an understanding of meditation through pranayama		
CO 401010a.4	Learn different techniques of Pranayam		

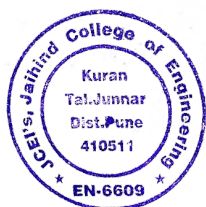
Prof. Zope M. T.

Course Teacher

Prof. Supekar G. S.

Head of Department
Head of Department

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DEPARTMENT OF CIVIL ENGINEERING

BE CIVIL (2019 Pattern)

Course Name :	Audit Course I b: Communicati Etiquette in Workplaces	Course Code:	401010
CO's No	CO Statements		
CO 401010b.1	Develop an understanding of workplace codes, professionalism at workplace		
CO 401010b.2	Learn the workplace ethics		
CO 401010b.3	Develop an understanding of Business ethics, workplace privacy and ethics		
CO 401010b.4	Learn teamwork at workplace		

Prof. Zope M. T.

Course Teacher



Prof. Supekar G. S.

Head of Department

Head of Department

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DEPARTMENT OF CIVIL ENGINEERING

BE CIVIL (2019 Pattern)

Semester-II

Course Name :	Dams and Hydraulics Structures	Course Code:	401011
CO's No	CO Statements		
CO 401011.1	Understand types of dams and instrumentation working		
CO 401011.2	Execute stability analysis of Gravity Dam		
CO 401011.3	Understand types of spillways & Design of Ogee spillway		
CO 401011.4	Illustrate the failures and analyze stability of earthen dam		
CO 401011.5	Design Canals and understand the canal structures		
CO 401011.6	Analysis of the Diversion headwork and Cross Drainage work		

Prof. Mehetre S. M.

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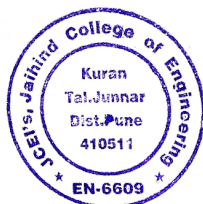
BE CIVIL (2019 Pattern)

Course Name :	Quantity Surveying, Contracts and Tenders	Course Code:	401012
CO's No	CO Statements		
CO 401012.1	Understand concept of estimates and prepare approximate estimate for various for Civil Engineering works.		
CO 401012.2	Describe tendering process, construction contracts, and aspects of Arbitration and prepare tender documents.		
CO 401012.3	Prepare detailed estimate of various items of work by different methods and calculate quantity of steel from bar bending schedule.		
CO 401012.4	Apply engineering knowledge to prepare estimate for roads, culverts, and water tank (Elevated storage tank)		
CO 401012.5	Apply concepts of specification to draft brief specification, detailed specification and prepare detailed rate analysis report.		
CO 401012.6	Evaluate depreciation and valuation of property on the basis of present condition, specifications and market trend.		

Zope M. T.

Prof. Zope M. T.

Course Teacher



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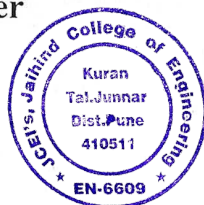
DEPARTMENT OF CIVIL ENGINEERING

BE CIVIL (2019 Pattern)

Course Name :	Elective V: Hydropower Engineering	Course Code:	401013 e
CO's No	CO Statements		
CO 401013e.1	Understand the classification of power resources & trends in energy use patterns.		
CO 401013e.2	Identify the components of hydro power plant.		
CO 401013e.3	Analyze the load assessment for turbines.		
CO 401013e.4	Prepare the layout of power house based on the various structures need for it.		
CO 401013e.5	Design the turbines and surge tanks.		
CO 401013e.6	Understand the laws and regulatory aspects of hydroelectric power.		

Prof. Konde M.M.

Course Teacher



Prof. Supekar G. S.
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DEPARTMENT OF CIVIL ENGINEERING

BE CIVIL (2019 Pattern)

Course Name :	Elective VI: Green Structures and Smart Cities	Course Code:	401014e
CO's No	CO Statements		
CO 401014e.1	Students should be able to describe the importance of energy and minimization by altering the building materials.		
CO 401014e.2	Students should be able to understand the importance green construction and green rating system		
CO 401014e.3	Students should be able to introduce the applications of energy conservation and efficiency practices in buildings.		
CO 401014e.4	Students should be able to understand phases and approval involved in smart city project.		
CO 401014e.5	Students should be able to assess the national and global experience of smart cities.		
CO 401014e.6	Students should be able to understand the importance of sustainable development and current protocol of sustainable development goals.		

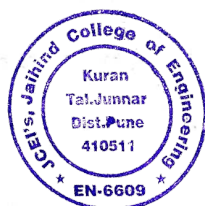
Prof. Dighe S. J.

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DEPARTMENT OF CIVIL ENGINEERING

BE CIVIL (2019 Pattern)

Course Name :	Project Stage II	Course Code:	401015
CO's No	CO Statements		
CO 401015.1	Appraise the current Civil Engineering research/techniques/developments/interdisciplinary areas.		
CO 401015.2	Review and organize literature survey utilizing technical resources, journals etc.		
CO 401015.3	Evaluate and draw conclusions related to technical content studied.		
CO 401015.4	Demonstrate the ability to perform critical writing by preparing a technical report.		
CO 401015.5	Develop technical writing and presentation skills.		

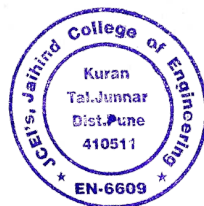
Prof. Supekar G. S.

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DEPARTMENT OF CIVIL ENGINEERING

BE CIVIL (2019 Pattern)

Course Name :	Audit Course II a: Social Responsibility	Course Code:	401019a
CO's No	CO Statements		
CO 401019a.1	Develop understanding of social responsibility		
CO 401019a.2	Learn the International framework for Social Responsibility		
CO 401019a.3	Know the drivers of social responsibility in India		
CO 401019a.4	Identify the key stakeholders of social responsibility		

Bharitkar

Prof. Bharitkar D. V.

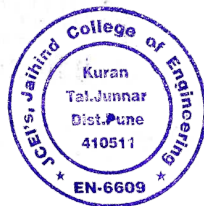
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Supekar

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DEPARTMENT OF CIVIL ENGINEERING

BE CIVIL (2019 Pattern)

Course Name :	Audit Course II b: Human	Course Code: 401019b
	Rights	
CO's No	CO Statements	
CO 401019b.1	Gather Knowledge about Human rights and Human rights Movement	
CO 401019b.2	Develop understanding of Human rights and Indian Constitution	
CO 401019b.3	Discuss Human Rights of the Different Sections and contemporary issues	
CO 401019b.4	Discuss International scenario towards human rights with reference to engineering Industry.	

Prof. Bharitkar D. V.

Course Teacher

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Head of Department

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