


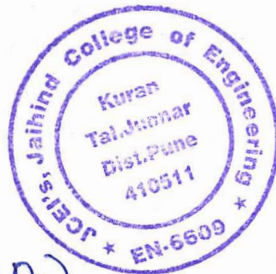


**Department of Electronics and Telecommunication  
Engineering  
Class-TE E&TC (2019 Pattern) Semester-V**

Course Name :	Digital Communication	Course Code :	304181
CO's No.	CO Statements		
CO.1	Apply the statistical theory for describing various signals in a communication system.		
CO.2	Understand and explain various digital modulation techniques used in digital communication systems and analyze their performance in presence of AWGN noise.		
CO.3	Describe and analyze the digital communication system with spread spectrum modulation.		
CO.4	Analyze a communication system using information theoretic approach		
CO.5	Use error control coding techniques to improve performance of a digital communication system.		

  
Course Teacher

(Prof. Chaugale Sonali D.)



  
Head of Department  
(E & TC)

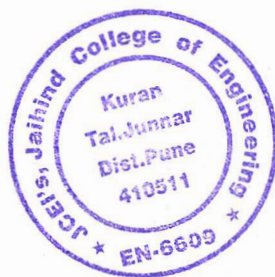
JCEI's Jaikind College of Engineering,  
Kuran, Tal-Junnar, Dist. Pune



**Department of Electronics and Telecommunication  
Engineering  
Class-TE E&TC (2019 Pattern) Semester-V**

<b>Course Name :</b> Electromagnetic Field Theory	<b>Course Code :</b> 304182
<b>CO's No</b>	<b>CO Statements</b>
<b>CO.1</b>	Apply the basic electromagnetic principles and determine the fields (E & H) due to the given source.
<b>CO.2</b>	Apply boundary conditions to the boundaries between various media to interpret behaviour of the fields on either side.
<b>CO.3</b>	State, Identify and Apply Maxwell's equations (integral and differential forms) in both the forms (Static time-varying or Time-harmonic field) for various sources, Calculate the time average power density using Poynting Theorem, Retarded magnetic vector potential.
<b>CO.4</b>	Formulate, Interpret and solve simple uniform plane wave (Helmholtz Equations) equations, and analyze the incident/reflected/transmitted waves at normal incidence.
<b>CO.5</b>	Interpret and Apply the transmission line equation to transmission line problems with load impedance to determine input and output voltage/current at any point on the Transmission line, Find input/load impedance, input/load admittance, reflection coefficient, SWR, $V_{max}/V_{min}$ , length of transmission line using Smith Chart.
<b>CO.6</b>	Carry out a detailed study; interpret the relevance and applications of Electromagnetic.

Course Teacher  
(Dr. R. Mulajkar)




Head of Department  
(E & TC)  
JCEI's Jainhind College of Engineering,  
Kuran, Tal. Junnar, Dist. Pune




**Department of Electronics and Telecommunication  
Engineering  
Class-TE E&TC (2019 Pattern) Semester-V**

Course Name :	Database Management	Course Code :	304183
CO's No	CO Statements		
CO.1	Ability to implement the underlying concepts of a database system.		
CO.2	Design and implement a database schema for a given problem-domain using data model.		
CO.3	Formulate, using SQL/DML/DDDL commands, solutions to a wide range of query and update problems.		
CO.4	Implement transactions, concurrency control, and be able to do Database recovery.		
CO.5	Able to understand various Parallel Database Architectures and its applications.		
CO.6	Able to understand various Distributed Databases and its applications.		

  
Course Teacher  
(Pooja Punde P.S.)



  
Head of Department  
(E & TC)  
JCEI's Jainind College of Engineering,  
Kuran, Tal. Junnar, Dist. Pune



Department of Electronics and Telecommunication Engineering


Class-TE E&TC (2019 Pattern) Semester-V

Course Name :	Microcontroller	Course Code :	304184
CO's No	CO Statements		
CO.1	Understand the fundamentals of microcontroller and programming.		
CO.2	Interface various electronic components with microcontrollers.		
CO.3	Analyze the features of PIC 18F XXXX.		
CO.4	Describe the programming details in peripheral support.		
CO.5	Develop interfacing models according to applications.		
CO.6	Evaluate the serial communication details and interfaces.		

  
Course Teacher

(Prof. Nalwade 79.S.)



  
Head of Department  
(E & TC)  
ICEI's Jainhind College of Engineering,  
Kuran, Tal-Junnar, Dist. Pune



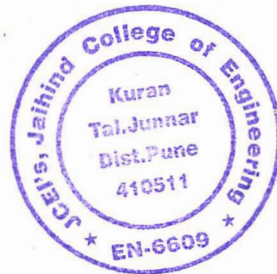
**Department of Electronics and Telecommunication  
Engineering  
Class-TE E&TC (2019 Pattern) Semester-V**

<b>Course Name :</b>	Fundamentals of JAVA Programming (Elective - I)	<b>Course Code :</b>	304185 (C)
<b>CO's No</b>	<b>CO Statements</b>		
<b>CO.1</b>	Understand the basic principles of Java programming language.		
<b>CO.2</b>	Apply the concepts of classes and objects to write programs in Java.		
<b>CO.3</b>	Demonstrate the concepts of methods & Inheritance.		
<b>CO.4</b>	Use the concepts of interfaces & packages for program implementation.		
<b>CO.5</b>	Understand multithreading and Exception handling in Java to develop robust programs.		
<b>CO.6</b>	Use Graphics class, AWT packages and manage input and output files in Java.		

*Samay*

Course Teacher

Ms. Bhingardive A.A.




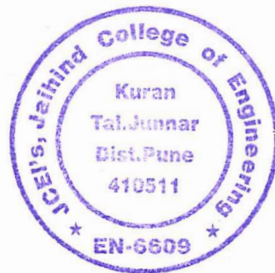
*[Signature]*  
Head of Department  
(E & TC)  
ICEI's Jalgaon College of Engineering,  
Kuran, Tal. Junnar, Dist. Pune




**Department of Electronics and Telecommunication  
Engineering  
Class-TE E&TC (2019 Pattern) Semester-V**

<b>Course Name :</b>	Skill Development	<b>Course Code :</b>	304190
<b>CO's No</b>	<b>CO Statements</b>		
CO.1	Student should recognize the need to engage in independent and life-long learning in required skill sets.		
CO.2	Student needs to experience the impact of industries on society by visiting different industries and understand the importance of industrial products for analog and digital circuits and systems.		
CO.3	Student has to make use of the modern electronic and IT Engineering Tools and Technologies for solving electronic engineering problems.		
CO.4	Student would be able to communicate effectively at different technical and administrative levels.		
CO.5	Student will exhibit leadership skills both as an individual and as a member in a team in multidisciplinary environment.		

  
Course Teacher  
(P.K. Raut.)




  
Head of Department  
(E & TC)  
JCEI's Jainhind College of Engineering,  
Kuran, Tal-Junnar, Dist. Pune




**Department of Electronics and Telecommunication  
Engineering  
Class-TE E&TC (2019 Pattern) Semester-VI**

<b>Course Name :</b>	Cellular Networks	<b>Course Code :</b>	304192
<b>CO's No</b>	<b>CO Statements</b>		
CO.1	Understand fundamentals of wireless communications.		
CO.2	Discuss and study OFDM and MIMO concepts.		
CO.3	Elaborate fundamentals mobile communication.		
CO.4	Describes aspects of wireless system planning.		
CO.5	Understand of modern and futuristic wireless networks architecture.		
CO.6	Summarize different issues in performance analysis.		



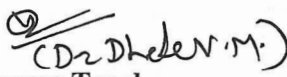
  
Course Teacher  
(Prof. Punde P.S.)

  
Head of Department  
(E & TC)  
ICEI's Jaihind College of Engineering,  
Kuran, Tal-Junnar, Dist. Pune




**Department of Electronics and Telecommunication  
Engineering  
Class-TE E&TC (2019 Pattern) Semester-VI**

Course Name :	Project Management	Course Code :	304193
CO's No	CO Statements		
CO.1	Apply the fundamental knowledge of project management for effectively handling the projects.		
CO.2	Identify and select the appropriate project based on feasibility study and undertake its effective planning.		
CO.3	Assimilate effectively within the organizational structure of project and handle project management related issues in an efficient manner.		
CO.4	Apply the project scheduling techniques to create a Project Schedule Plan and accordingly utilize the resources to meet the project deadline.		
CO.5	Identify and assess the project risks and manage finances in line with Project Financial Management Process.		
CO.6	Develop new products assessing their commercial viability and develop skill sets for becoming successful entrepreneurs while being fully aware of the legal issues related to Product development and Entrepreneurship.		

  
Course Teacher



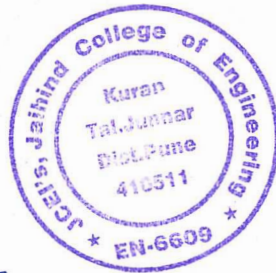
  
Head of Department  
(E & TC)  
JCEI's Jalind College of Engineering,  
Kuran, Tal-Junnar, Dist. Pune







**Department of Electronics and Telecommunication  
Engineering  
Class-TE E&TC (2019 Pattern) Semester-VI**

<b>Course Name :</b>	<b>Power Devices &amp; Circuits</b>	<b>Course Code :</b>	<b>304194</b>
<b>CO's No</b>	<b>CO Statements</b>		
<b>CO.1</b>	To differentiate based on the characteristic parameters among SCR, GTO, MOSFET & IGBT and identify suitability of the power device for certain applications and understand the significance of device ratings.		
<b>CO.2</b>	To design triggering / driver circuits for various power devices.		
<b>CO.3</b>	To evaluate and analyze various performance parameters of the different converters and its topologies.		
<b>CO.4</b>	To understand significance and design of various protection circuits for power devices.		
<b>CO.5</b>	To evaluate the performance of uninterruptible power supplies, switch mode power supplies and battery.		
<b>CO.6</b>	To understand case studies of power electronics in applications like electric vehicles, solar systems etc.		



  
Course Teacher


(Prof. Sonali D. Chaugale)

  
Head of Department  
(E & TC)  
ICEI's Jainkind College of Engineering,  
Kuran, Tal-Junnar, Dist. Pune




Department of Electronics and Telecommunication Engineering  
Class-TE E&TC (2019 Pattern) Semester-VI

<b>Course Name :</b> Digital Image Processing (Elective - II)	<b>Course Code :</b> 304195 (A)
<b>CO's No</b>	<b>CO Statements</b>
CO.1	Apply knowledge of mathematics for image understanding and analysis.
CO.2	Implement spatial domain image operations.
CO.3	Design and realize various algorithms for image segmentation.
CO.4	Design and realize various algorithms for image Compression.
CO.5	Apply restoration to remove noise in the image.
CO.6	Describe the object recognition system.

  
Course Teacher

(Prof. Chaugule S.D.)

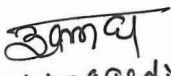


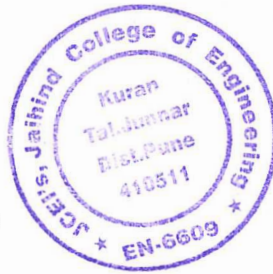
  
Head of Department  
(E & TC)  
ICEI's Jainind College of Engineering,  
Kuran, Tal-Junnar, Dist. Pune




**Department of Electronics and Telecommunication  
Engineering  
Class-TE E&TC (2019 Pattern) Semester-VI**

Course Name :	Internship	Course Code :	304199
CO's No	CO Statements		
CO.1	To develop professional competence through internship.		
CO.2	To apply academic knowledge in a personal and professional environment.		
CO.3	To build the professional network and expose students to future employees.		
CO.4	Apply professional and societal ethics in their day-to-day life.		
CO.5	To become a responsible professional having social, economic and administrative considerations.		
CO.6	To make own career goals and personal aspirations.		

  
ms. Bhingardixe A.A.  
Course Teacher



  
Head of Department  
**Head of Department  
(E & TC)**  
JCEI's Jainind College of Engineering,  
Kuran, Tal. Junnar, Dist. Pune



**Department of Electronics and Telecommunication  
Engineering  
Class-TE E&TC (2019 Pattern) Semester-VI**

Course Name :	Mini Project	Course Code :	304200
CO's No	CO Statements		
CO.1	Understand, plan and execute a Mini Project with team.		
CO.2	Implement electronic hardware by learning PCB artwork design, soldering techniques, testing and troubleshooting etc.		
CO.3	Prepare a technical report based on the Mini project.		
CO.4	Deliver technical seminar based on the Mini Project work carried.		



Course Teacher  
(Dr. R. Mulgikar)

Head of Department  
Head of Department  
(E & TC)  
ICEI's Jainind College of Engineering,  
Kuran, Tal. Junnar, Dist. Pune