


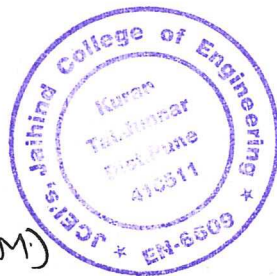


DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION  
ENGINEERING

BE E&TC (2019 Pattern) Semester-VII

Course Name :	Radiation and Microwave Theory	Course Code :	404181
CO's No.	CO Statements		
CO.1	Apply the fundamentals of electromagnetic to derive free space propagation equation and distinguish various performance parameters of antenna		
CO.2	Identify various modes in the waveguide. Compare: coaxial line, rectangular waveguides & strip lines and identify applications of the same.		
CO.3	Explore construction and working of principles passive microwave devices/components		
CO.4	Explore construction and working of principles active microwave devices/components.		
CO.5	Analyze the structure, characteristics, operation, equivalent circuits and applications of various microwave solid state active devices		
CO.6	Know the various microwave systems, device set ups of microwave measurement devices and identify the effect of radiations on environmental sustainability.		

  
CDr Dhale N.M.)  
Course Teacher




  
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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION  
ENGINEERING


BE E&TC (2019 Pattern) Semester-VII

Course Name :	VLSI Design and Technology	Course Code :	404182
CO's No.	CO Statements		
CO.1	Develop effective HDL codes for digital design.		
CO.2	Apply knowledge of real time issues in digital design		
CO.3	Model digital circuit with HDL, simulate, synthesis and prototype in PLDs.		
CO.4	Design CMOS circuits for specified applications		
CO.5	Analyze various issues and constraints in design of an ASIC.		
CO.6	Apply knowledge of testability in design and Build in Self-Test (BIST) circuit		

  
Course Teacher

1 (Prof. Chaugule Sonali D.)



  
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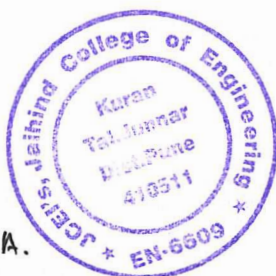
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION  
ENGINEERING

BE E&TC (2019 Pattern) Semester-VII

Course Name :	Cloud Computing	Course Code :	404183
CO's No.	CO Statements		
CO.1	Understand the basic concepts of Cloud Computing.		
CO.2	Describe the underlying principles of different Cloud Service Models.		
CO.3	Classify the types of Virtualizations		
CO.4	Examine the Cloud Architecture and understand the importance of Cloud Security.		
CO.5	Develop applications on Cloud Platforms.		
CO.6	Evaluate distributed computing and the Internet of Things.		

*Bhargava*

Ms. Bhingardive A.A.  
Course Teacher



*Bhargava*  
Head of Department  
Head of Department  
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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION  
ENGINEERING

BE E&TC (2019 Pattern) Semester-VII

Course Name :	Modernized IoT (Elective - III)	Course Code :	404184 (E)
CO's No.	CO Statements		
CO.1	Comprehend and analyze concepts of sensors, actuators, IoT and IoE.		
CO.2	Interpret IoT Architecture Design Aspects.		
CO.3	Comprehend the operation of IoT protocols.		
CO.4	Describe various IoT boards, interfacing, and programming for IoT.		
CO.5	Illustrate the technologies, Catalysts, and precursors of IoT using suitable use cases.		
CO.6	Provide suitable solution for domain specific applications of IoT.		

  
Course Teacher



  
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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION  
ENGINEERING

BE E&TC (2019 Pattern) Semester-VII

Course Name :	Project Phase – I	Course Code :	404188
CO's No.	CO Statements		
CO.1	Demonstrate a sound technical knowledge in field of E&TC in the form of project.		
CO.2	Undertake real life problem identification, formulation and solution.		
CO.3	Design engineering solutions to complex problems utilizing a systematic approach.		
CO.4	Demonstrate the knowledge, effective communication skills and attitudes as professional engineer.		



Course Teacher  
(Dr. R. Mulajkar)

Head of Department  
Head of Department  
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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION  
ENGINEERING

BE E&TC (2019 Pattern) Semester-VIII

Course Name :	Fiber Optic Communication	Course Code :	404190
CO's No.	CO Statements		
CO.1	Explain the working of components and measurement equipment in optical fiber networks.		
CO.2	Calculate the important parameters associated with optical components used in fiber optic telecommunication systems		
CO.3	Compare and contrast the performance of major components in optical links.		
CO.4	Evaluate the performance viability of optical links using the power and rise time budget analysis.		
CO.5	Design digital optical link by proper selection of components and check its viability using simulation tools.		
CO.6	Compile technical information related to state of art components, standards, simulation tools and current technological trends by accessing the online resources to update their domain knowledge		



  
Course Teacher  
(Prof. Punde PS)

  
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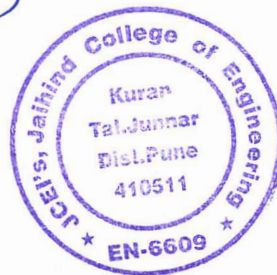



DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION  
ENGINEERING

BE E&TC (2019 Pattern) Semester-VIII

Course Name :	Mobile Computing (Elective - V)	Course Code :	404191 (E)
CO's No.	CO Statements		
CO.1	Understand concepts of Mobile Communication.		
CO.2	Analyse next generation Mobile Communication System.		
CO.3	Understand network layers of Mobile Communication		
CO.4	Understand IP and Transport layers of Mobile Communication		
CO.5	Study of different mathematical models.		
CO.6	Understand different mobile applications		

  
Course Teacher  
(Prof. Purush P. S)



  
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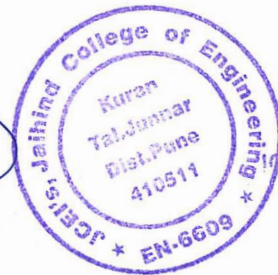
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION  
ENGINEERING

BE E&TC (2019 Pattern) Semester-VIII

Course Name :	Digital Marketing (Elective - VI)	Course Code :	404192 (D)
CO's No.	CO Statements		
CO.1	Design websites using free tools like Word Press and explore it for digital marketing.		
CO.2	Apply various keywords for a website & to perform SEO		
CO.3	Understand the various SEM Tools and implement the Digital Marketing Tools.		
CO.4	Illustrate the use of Facebook, Instagram and Youtube for Digital Marketing in real life.		
CO.5	Use Linked in platform for various campaigning.		
CO.6	Understand the importance of recent trends in digital marketing.		

*Chaugule*  
Course Teacher

(Prof. Chaugule S.D.)



*Chaugule*  
Head of Department  
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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION  
ENGINEERING

BE E&TC (2019 Pattern) Semester-VIII

Course Name :	Innovation and Entrepreneurship	Course Code :	404193
CO's No.	CO Statements		
CO.1	Understand Innovation, Entrepreneurship and characteristics of an entrepreneur.		
CO.2	Develop a strong understanding of the Design Process and its application in variety of business settings.		
CO.3	Generate sustainable ideas.		
CO.4	Explore various processes required to be an entrepreneur.		
CO.5	Understand patents and its process of filing.		
CO.6	Choose and use appropriate social media for marketing.		

  
Course Teacher  
(Prof. Rande P.S).



  
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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION  
ENGINEERING

BE E&TC (2019 Pattern) Semester-VIII

Course Name :	Digital Business Management	Course Code :	404194
CO's No.	CO Statements		
CO.1	Identify drivers of digital business.		
CO.2	Illustrate various approaches and techniques for E-business and management.		
CO.3	Prepare E-business plan.		

*Bhaugule*  
Course Teacher

(Prof. Bhaugule S. D.)



*[Signature]*  
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