



EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

Course Outcome Statements

2017 REGULATION

Electronics and Communication Engineering

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	I & I
Course Code & Name:	C101 & HS8151-Communicative English
Year of Study :	2017 – 2018

Course Code and Name :C102 & HS3151-Professional English -I		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C101.1	Listen and comprehend complex academic texts	K1
C101.2	Read and infer the denotative and connotative meanings of technical texts	K3
C101.3	Write definitions, descriptions, narrations and essays on various topics	K4
C101.4	Speak fluently and accurately in formal and informal communicative contexts	K2
C101.5	Express their opinions effectively in both oral and written medium of communication	K5

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	I& I
Course Code & Name:	C102&MA8151- Engineering Mathematics – I
Year of Study :	2017 – 2018

Course Code and Name :C102&MA8151- Engineering Mathematics – I		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C102.1	Use both the limit definition and rules of differentiation to differentiate functions.	K3
C102.2	Apply differentiation to solve maxima and minima problems..	K3
C102.3	Evaluate integrals both by using Riemann sums and by using the Fundamental Theorem of Calculus.	K3
C102.4	Apply integration to compute multiple integrals, area, volume, integrals in polar coordinates, in addition to change of order and change of variables.	K3
C102.5	Apply various techniques in solving differential equations.	K3



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	I& I
Course Code & Name:	C103 & PH8151- Engineering Physics
Year of Study :	2017 – 2018

Course Code and Name : C103 & PH8151- Engineering Physics		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C103.1	Acquire the knowledge on the basic properties of matter and its applications.	K2
C103.2	Gain the knowledge on wave concepts.To acquire the knowledge about the Laser and fibre optics and their applications.	K3
C103.3	Adequate knowledge on thermal properties of materials and their applications in expansion joints and heat exchangers.	K2
C103.4	Get knowledge on advanced physics concepts of quantum theory and its applications in tunneling microscopes.	K3
C103.5	Understand the basic knowledge of crystals, their structures and different crystal growth techniques	K2

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	I& I
Course Code & Name:	C104 & CY8151- Engineering Chemistry
Year of Study :	2017 – 2018

Course Code and Name : C104 & CY8151- Engineering Chemistry		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C104.1	Understand about various water treatment technique and its uses.	K4
C104.2	Know the surface phenomena of molecules and its applications	K2
C104.3	Understand the phase diagram and predict the composition of alloys	K2
C104.4	Analyze the quality of fuels and its various uses. Gain the knowledge about energy sources and its applications	K4
C104.5	Gain the knowledge about energy sources and its applications	K2



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	I& I
Course Code & Name:	C105-GE8151 -PROBLEM SOLVING AND PYTHON PROGRAMMING
Year of Study :	2017 – 2018

Course Code and Name : C105-GE8151 -PROBLEM SOLVING AND PYTHON PROGRAMMING		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C105.1	Develop algorithmic solutions to simple computational problems	K4
C105.2	Read , write, execute by hand simple Python programs	K3
C105.3	Structure simple Python programs for solving problems	K3
C105.4	Represent compound data using Python lists, tuples, dictionaries.	K3
C105.5	Read and write data from/to files in Python Programs	K2

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	I& I
Course Code & Name:	C106-GE8152-ENGINEERING GRAPHICS
Year of Study :	2017 – 2018

Course Code and Name : C106-GE8152-ENGINEERING GRAPHICS		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C106.1	Familiarize with fundamentals and standards of engineering graphics	K2
C106.2	Perform freehand sketching of basic geometrical constructions and multiple view of objects	K3
C106.3	Project orthographic projections of lines and planer surfaces	K2
C106.4	Draw projections of solids and development of surfaces	K3
C106.5	Visualize and to project isometric and perspective sections of simple	K3



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	I& I
Course Code & Name:	C107-GE8161 -PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY
Year of Study :	2017 – 2018

Course Code and Name : C107-GE8161 -PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C107.1	Write , test, and debug simple Python programs.	K2
C107.2	Implement Python programs with conditionals and loops.	K3
C107.3	Develop Python programs step-wise by defining functions and calling them.	K4
C107.4	Use Python lists, tuples, dictionaries for representing compound data.	K3
C107.5	Read and write data from/to files in Python.	K2

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	I& I
Course Code & Name:	C108 & BS8161-Physics and chemistry laboratories
Year of Study :	2017 – 2018

Course Code and Name :C108 & BS8161-Physics and chemistry laboratories		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C108.1	Apply the principle of optics and Laser in engineering field	K4
C108.2	Calculate band gap of a semiconductor and velocity of sound waves.	K3
C108.3	Determines Young's modulus of beam and Rigidity modulus of thin wire.	K5
C108.4	Analysis the effect of chlorides in water DO present in sample water	K1
C108.5	Identify basicity , acidity and pH of the material	K2



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	I & II
Course Code & Name:	C109 & HS8251-Technical English
Year of Study :	2017 – 2018

Course Code and Name : C109 & HS8251-Technical English		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C109.1	Breakdown the ideas in to its elementary constituents, analyze and act after a meaning full thought process	K2
C109.2	Analyze the phrase and passage and explicitly pass on the ideas meaning fully.	K3
C109.3	Manage to interpret the given phrase or the graphical rendering and review the contents well individually or as a group.	K3
C109.4	Concentrate on the communication aspect of complicated ideas and respond positively.	K2
C109.5	Debate the issues and find the rudiments of the problem individually and as a group.	K2

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	I& II
Course Code & Name:	C110 & MA8251-Engineering Mathematics – II
Year of Study :	2017 – 2018

Course Code and Name :C102&MA8251-- Engineering Mathematics – II		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C110.1	Eigenvalues and eigenvectors, diagonalization of a matrix, Symmetric matrices, Positive definite matrices and similar matrices	K2
C110.2	Gradient , divergence and curl of a vector point function and related identities.	K3
C110.3	Evaluation of line, surface and volume integrals using Gauss, Stokes and Green's theorems and their verification.	K5
C110.4	Analytic functions , conformal mapping and complex integration.	K2
C110.5	Laplace transform and inverse transform of simple functions, properties, various related theorems and application to differential equations with constant coefficients.	K5



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	I & II
Course Code & Name:	C111 & PH8253 - PHYSICS FOR ELECTRONICS ENGINEERING
Year of Study :	2017 – 2018

Course Code and Name : C111 & PH8253 - PHYSICS FOR ELECTRONICS ENGINEERING		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C111.1	Gain knowledge on classical and quantum electron theories, and energy band structures,	K4
C111.2	Acquire knowledge on basics of semiconductor physics and its applications in various devices,	K2
C111.3	Get knowledge on magnetic and dielectric properties of materials.	K3
C111.4	Have the necessary understanding on the functioning of optical materials for optoelectronics	K2
C111.5	Understand the basics of quantum structures and their applications in spintronic and carbon electronics.	K3

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	I & II
Course Code & Name:	C112 & BE8254-BASIC ELECTRICAL AND INSTRUMENTATION ENGINEERING
Year of Study :	2017 – 2018

Course Code and Name : C112 & BE8254-BASIC ELECTRICAL AND INSTRUMENTATION ENGINEERING		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C112.1	Understand the concept of three phase power circuits and measurement. Comprehend the concepts in electrical generators	K2
C112.2	Understand the concept of three phase power circuits and measurement. Comprehend the concepts in electrical generators	K2
C112.3	Understand the concept of three phase power circuits and measurement.	K2
C112.4	Comprehend the concepts in electrical generators	K2
C112.5	Choose appropriate measuring instruments for given application.	K2



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	I & II
Course Code & Name:	C113 & EC8251-CIRCUIT ANALYSIS
Year of Study :	2017 – 2018

Course Code and Name : C113 & EC8251-CIRCUIT ANALYSIS		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C113.1	Develop the capacity to analyze electrical circuits	K2
C113.2	Develop the capacity to analyze electrical circuits	K2
C113.3	Gain knowledge about resonant and coupled circuits	K2
C113.4	Understand about transient analysis	K2
C113.5	Understand about two port network	K2

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	I & II
Course Code & Name:	C114 & EC8252-ELECTRONIC DEVICES
Year of Study :	2017 – 2018

Course Code and Name : C114 & EC8252-ELECTRONIC DEVICES		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C114.1	Explain the V-I characteristic of diode, UJT and SCR	K2
C114.2	Describe the equivalence circuits of transistors	K2
C114.3	Operate the basic electronic devices such as PN junction diode, Bipolar and Field effect Transistors, Power control devices, LED, LCD and other Opto-electronic devices	K2
C114.4	Understand about semiconductor devices	K2
C114.5	Understand about power devices	K2



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	I & II
Course Code & Name:	C115 & EC8261-CIRCUIT AND DEVICES LABORATORY
Year of Study :	2017 – 2018

Course Code and Name : C115 & EC8261-CIRCUIT AND DEVICES LABORATORY		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C115.1	Analyze the characteristics of basic electronic devices	K3
C115.2	Design RL and RC circuits	K4
C115.3	Verify Thevinin & Norton theorem	K4
C115.4	Verify Superposition Theorem	K4
C115.5	Verify KVL and KCL Circuits	K4

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	I & II
Course Code & Name:	C116 & GE8261-ENGINEERING PRACTICES LABORATORY
Year of Study :	2017 – 2018

Course Code and Name : C116 & GE8261-ENGINEERING PRACTICES LABORATORY		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C116.1	Fabricate carpentry components and pipe connections including plumbing works.	K3
C116.2	Illustrate on centrifugal pump, Air conditioner, operations of smithy, foundry and fittings	K3
C116.3	Carry out basic home electrical works and appliances	K3
C116.4	Measure the electrical quantities	K3
C116.5	Elaborate on the components, gates, soldering practices	K3



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	II & III
Course Code & Name:	C201 & MA8352 - LINEAR ALGEBRA AND PARTIAL DIFFERENTIAL EQUATIONS
Year of Study :	2018-2019

Course Code and Name : MA8352 LINEAR ALGEBRA AND PARTIAL DIFFERENTIAL EQUATIONS		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C201.1	Explain the fundamental concepts of advanced algebra and their role in modern mathematics and applied contexts.	K2
C201.2	Demonstrate accurate and efficient use of advanced algebraic techniques.	K3
C201.3	Demonstrate their mastery by solving non - trivial problems related to the concepts and by proving simple theorems about the statements proven by the text	K3
C201.4	Solve various types of partial differential equations.	K3
C201.5	Solve engineering problems using Fourier series.	K3

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	II & III
Course Code & Name:	C202 & EC8393 FUNDAMENTALS OF DATA STRUCTURES IN C
Year of Study :	2018-2019

Course Code and Name : EC8393 FUNDAMENTALS OF DATA STRUCTURES IN C		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C202.1	Implement linear and non-linear data structure operations using C	K3
C202.2	Suggest appropriate linear / non-linear data structure for any given data set.	K2
C202.3	Apply hashing concepts for a given problem	K3
C202.4	Modify or suggest new data structure for an application	K2
C202.5	Appropriately choose the sorting algorithm for an application	K3



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	II & III
Course Code & Name:	C203 & EC8351 ELECTRONIC CIRCUITS I
Year of Study :	2018-2019

Course Code and Name :EC8351 ELECTRONIC CIRCUITS I		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C203.1	Acquire knowledge of Working principles, characteristics and applications of BJT and FET	K1
C203.2	Acquire knowledge of Frequency response characteristics of BJT and FET amplifiers	K1
C203.3	Analyze the performance of small signal BJT and FET amplifiers	K4
C203.4	Analyze the performance of Single and multistage amplifiers	K4
C203.5	Apply the knowledge gained in the design of Electronic circuits	K3

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	II & III
Course Code & Name:	C204 & EC8352 SIGNALS AND SYSTEMS
Year of Study :	2018-2019

Course Code and Name :EC8352 SIGNALS AND SYSTEMS		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C204.1	Determine if a given system is linear/causal/stable	K1
C204.2	Capable of determining the frequency components present in a deterministic signal	K2
C204.3	Capable of characterizing LTI systems in the time domain and frequency domain	K2
C204.4	Analyze the performance of Discrete time signals	K4
C204.5	Compute the output of an LTI system in the time and frequency domains	K4



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	II & III
Course Code & Name:	C205 & EC8392 DIGITAL ELECTRONICS
Year of Study :	2018-2019

Course Code and Name :EC8392 DIGITAL ELECTRONICS		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C205.1	Use digital electronics in the present contemporary world	K1
C205.2	Design various combinational digital circuits using logic gates	K5
C205.3	Analysis and design procedures for synchronous and asynchronous sequential circuits	K2
C205.4	Use the semiconductor memories and related technology	K2
C205.5	Use electronic circuits involved in the design of logic gates	K2

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	II & III
Course Code & Name:	C206 & EC8391 CONTROL SYSTEMS ENGINEERING
Year of Study :	2018-2019

Course Code and Name :EC8391 CONTROL SYSTEMS ENGINEERING		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C206.1	Identify the various control system components and their representations.	K3
C206.2	Analyze the various time domain parameters.	K4
C206.3	Analysis the various frequency response plots and its system	K4
C206.4	Apply the concepts of various system stability criterions.	K3
C206.5	Design various transfer functions of digital control system using state variable models	K5



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	II & III
Course Code & Name:	C207 & EC8381 FUNDAMENTALS OF DATA STRUCTURES IN C LABORATORY
Year of Study :	2018-2019

Course Code and Name : EC8381 FUNDAMENTALS OF DATA STRUCTURES IN C LABORATORY

Course Code	CO Statements	Knowledge Level
The students should be able to		
C207.1	Write basic and advanced programs in C	K2
C207.2	Implement functions and recursive functions in C	K3
C207.3	Implement data structures using C	K3
C207.4	Choose appropriate sorting algorithm for an application	K2
C207.5	Implement it in a modularized way	K3

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	II & III
Course Code & Name:	C208 & EC8361 ANALOG AND DIGITAL CIRCUITS LABORATORY
Year of Study :	2018-2019

Course Code and Name : EC8361 ANALOG AND DIGITAL CIRCUITS LABORATORY

Course Code	CO Statements	Knowledge Level
The students should be able to		
C208.1	Design and Test rectifiers, filters and regulated power supplies	K5
C208.2	Design and Test BJT/JFET amplifiers.	K5
C208.3	Analyze the limitation in bandwidth of single stage and multi stage amplifier	K4
C208.4	Measure CMRR in differential amplifier	K2
C208.5	Design and Test the digital logic circuits.	K5



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	II & III
Course Code & Name:	C209 & HS8381 INTERPERSONAL SKILLS/LISTENING&SPEAKING
Year of Study :	2018-2019

Course Code and Name :HS8381 INTERPERSONAL SKILLS/LISTENING&SPEAKING		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C209.1	Listen and respond appropriately	K2
C209.2	Participate in group discussions	K2
C209.3	Make effective presentations	K1
C209.4	Participate in verbal and non verbal feedback	K2
C209.5	Participate confidently and appropriately in conversations both formal and informal	K2

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	II & IV
Course Code & Name:	C210 & MA8451 PROBABILITY AND RANDOM PROCESSES
Year of Study :	2018-2019

Course Code and Name:MA8451 PROBABILITY AND RANDOM PROCESSES		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C210.1	Understand the fundamental knowledge of the concepts of probability and have knowledge of standard distributions which can describe real life phenomenon	K2
C210.2	Understand the basic concepts of one and two dimensional random variables and apply in engineering applications.	K2
C210.3	Apply the concept random processes in engineering disciplines	K3
C210.4	Understand and apply the concept of correlation and spectral densities.	K2
C210.5	Analyze the response of random inputs to linear time invariant systems.	K4



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	II & IV
Course Code & Name:	C211 & EC8452 ELECTRONIC CIRCUITS II
Year of Study :	2018-2019

Course Code and Name: EC8452 ELECTRONIC CIRCUITS II		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C211.1	Analyze different types of amplifier, oscillator and multivibrator circuits	K4
C211.2	Design BJT amplifier and oscillator circuits	K5
C211.3	Analyze transistorized amplifier and oscillator circuits	K4
C211.4	Design and analyze feedback amplifiers	K5
C211.5	Design LC and RC oscillators, tuned amplifiers, wave shaping circuits, multivibrators, power amplifier and DC convertors.	K5

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	II & IV
Course Code & Name:	C212 & EC8491 COMMUNICATION THEORY
Year of Study :	2018-2019

Course Code and Name: EC8491 COMMUNICATION THEORY		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C212.1	Design AM communication systems	K5
C212.2	Design Angle modulated communication systems	K5
C212.3	Apply the concepts of Random Process to the design of Communication systems	K3
C212.4	Analyze the noise performance of AM and FM systems	K4
C212.5	Gain knowledge in sampling and quantization.	K2



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	II & IV
Course Code & Name:	C213 & EC8451 ELECTROMAGNETIC FIELDS
Year of Study :	2018-2019

Course Code and Name:EC8451 ELECTROMAGNETIC FIELDS		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C213.1	Understanding of fundamental electromagnetic laws and concepts	K4
C213.2	Write Maxwell's equations in integral, differential and phasor forms and explain their physical meaning	K2
C213.3	Explain electromagnetic wave propagation in lossy and in lossless media	K2
C213.4	Solve simple problems requiring estimation of electric and magnetic field quantities based on these concepts and laws	K4
C213.5	Solve plane electromagnetic waves.	K4

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	II & IV
Course Code & Name:	C214 & EC8453 LINEAR INTEGRATED CIRCUITS
Year of Study :	2018-2019

Course Code and Name:EC8453 LINEAR INTEGRATED CIRCUITS		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C214.1	Design linear and non linear applications of OP – AMPS	K5
C214.2	Design applications using analog multiplier and PLL	K5
C214.3	Design ADC and DAC using OP – AMPS	K5
C214.4	Generate waveforms using OP – AMP Circuits	K2
C214.5	Analyze special function ICs	K4



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APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	II & IV
Course Code & Name:	C215 & GE8291 ENVIRONMENTAL SCIENCE AND ENGINEERING
Year of Study :	2018-2019

Course Code and Name:GE8291 ENVIRONMENTAL SCIENCE AND ENGINEERING		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C215.1	Solve Environmental Pollution or problems cannot be solved by mere laws	K2
C215.2	Obtain knowledge on the following after completing the course.	K1
C215.3	Understand Public awareness of environmental is at infant stage.	K2
C215.4	Ignorance and incomplete knowledge has lead to misconceptions	K2
C215.5	Development and improvement in std. of living has lead to serious environmental disasters	K4

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	II & IV
Course Code & Name:	C216 & EC8461 CIRCUITS DESIGN AND SIMULATION LABORATORY
Year of Study :	2018-2019

Course Code and Name:EC8461 CIRCUITS DESIGN AND SIMULATION LABORATORY		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C216.1	Analyze various types of feedback amplifiers	K4
C216.2	Design oscillators, tuned amplifiers, wave-shaping circuits and multivibrators	K5
C216.3	Design feedback amplifiers, oscillators, tuned amplifiers, wave-shaping circuits	K5
C216.4	Simulate feedback amplifiers, oscillators, tuned amplifiers, wave-shaping circuits and multivibrators using SPICE Tool.	K5
C216.5	Design the power amplifier and Schmitt trigger	K5



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	II & IV
Course Code & Name:	C217 & EC8462 LINEAR INTEGRATED CIRCUITS LABORATORY
Year of Study :	2018-2019

Course Code and Name: EC8462 LINEAR INTEGRATED CIRCUITS LABORATORY		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C217.1	Design amplifiers, oscillators, D-A converters using operational amplifiers	K5
C217.2	Design filters using op-amp and performs an experiment on frequency response.	K5
C217.3	Analyze the working of PLL and describe its application as a frequency multiplier.	K4
C217.4	Design DC power supply using ICs.	K5
C217.5	Analyze the performance of filters, multivibrators, A/D converter and analog multiplier using SPICE.	K4

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	III & V
Course Code & Name:	C301 & EC8501 DIGITAL COMMUNICATION
Year of Study :	2018-2019

Course Code and Name: EC8501 DIGITAL COMMUNICATION		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C301.1	Design PCM systems	K5
C301.2	Design and implement base band transmission schemes	K5
C301.3	Design and implement band pass signaling schemes.	K5
C301.4	Analyze the spectral characteristics of band pass signaling schemes and their noise performance	K4
C301.5	Design error control coding schemes	K5



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	III & V
Course Code & Name:	C302 & EC8553 DISCRETE-TIME SIGNAL PROCESSING
Year of Study :	2018-2019

Course Code and Name: EC8553 DISCRETE-TIME SIGNAL PROCESSING		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C302.1	Apply DFT for the analysis of digital signals and systems	K3
C302.2	Design IIR and FIR filters	K5
C302.3	Characterize the effects of finite precision representation on digital filters	K2
C302.4	Design multirate filters	K5
C302.5	Apply adaptive filters appropriately in communication systems	K3

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	III & V
Course Code & Name:	C303 & EC8552 COMPUTER ARCHITECTURE AND ORGANIZATION
Year of Study :	2019-2020

Course Code and Name: EC8552 COMPUTER ARCHITECTURE AND ORGANIZATION		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C303.1	Describe data representation, instruction formats and the operation of a digital computer	K2
C303.2	Illustrate the fixed point and floating-point arithmetic for ALU operation	K2
C303.3	Discuss about implementation schemes of control unit and pipeline performance	K2
C303.4	Explain the concept of various memories, interfacing and organization of multiple processors	K2
C303.5	Discuss parallel processing technique and unconventional architectures	K2



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	III & V
Course Code & Name:	C304 & EC8551 COMMUNICATION NETWORKS
Year of Study :	2019-2020

Course Code and Name: EC8551 COMMUNICATION NETWORKS		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C304.1	Identify the components required to build different types of networks	K2
C304.2	Choose the required functionality at each layer for given application	K2
C304.3	Identify solution for each functionality at each layer	K2
C304.4	Trace the flow of information from one node to another node in the network	K2
C304.5	Understand about real time working in application layer	K2

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	III & V
Course Code & Name:	C305 & EC8073 MEDICAL ELECTRONICS
Year of Study :	2019-2020

Course Code and Name: EC8073 MEDICAL ELECTRONICS		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C305.1	Know the human body electro- physiological parameters and recording of bio-potentials	K2
C305.2	Comprehend the non-electrical physiological parameters and their measurement – body temperature, blood pressure, pulse, blood cell count, blood flow meter etc	K3
C305.3	Interpret the various assist devices used in the hospitals viz. pacemakers, defibrillators, dialyzers and ventilators	K3
C305.4	Comprehend physical medicine methods eg. ultrasonic, shortwave, microwave surgical diathermies , and bio-telemetry principles and methods	K3
C305.5	Know about recent trends in medical instrumentation	K2



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	III & V
Course Code & Name:	C306 & OCE551 AIR POLLUTION AND CONTROL ENGINEERING
Year of Study :	2019-2020

Course Code and Name: OCE551 AIR POLLUTION AND CONTROL ENGINEERING		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C306.1	understand the nature and characteristics of air pollutants, noise pollution and basic concepts of air quality management	K2
C306.2	identify , formulate and solve air and noise pollution problems	K3
C306.3	design stacks and particulate air pollution control devices to meet applicable standards.	K3
C306.4	select control equipments.	K3
C306.5	ensure quality, control and preventive measures.	K2

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	III & V
Course Code & Name:	C307 & EC8562 DIGITAL SIGNAL PROCESSING LABORATORY
Year of Study :	2019-2020

Course Code and Name: EC8562 DIGITAL SIGNAL PROCESSING LABORATORY		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C307.1	Carryout basic signal processing operations	K4
C307.2	Demonstrate their abilities towards MATLAB based implementation of various DSP systems	K4
C307.3	Analyze the architecture of a DSP Processor	K4
C307.4	Trace the flow of information from one node to another node in the network	K4
C307.5	Understand about real time working in application layer	K4



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	III & V
Course Code & Name:	C308 & EC8561 COMMUNICATION SYSTEMS LABORATORY
Year of Study :	2019-2020

Course Code and Name: EC8561 COMMUNICATION SYSTEMS LABORATORY		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C308.1	Simulate & validate the various functional modules of a communication system	K4
C308.2	Demonstrate their knowledge in base band signaling schemes through implementation of digital modulation schemes	K3
C308.3	Apply various channel coding schemes	K3
C308.4	Demonstrate their capabilities towards the improvement of the noise performance of communication system	K3
C308.5	Simulate end-to-end communication Link	K4

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	III & V
Course Code & Name:	C309 & EC8563 COMMUNICATION NETWORKS LABORATORY
Year of Study :	2019-2020

Course Code and Name: EC8563 COMMUNICATION NETWORKS LABORATORY		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C309.1	Communicate between two desktop computers	K2
C309.2	Implement the different protocols	K3
C309.3	Program using sockets.	K4
C309.4	Implement and compare the various routing algorithms	K3
C309.5	Use the simulation tool.	K4



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	III & VI
Course Code & Name:	C310 & EC8691 MICROPROCESSORS AND MICROCONTROLLERS
Year of Study :	2019-2020

Course Code and Name: EC8691 MICROPROCESSORS AND MICROCONTROLLERS		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C310.1	Understand and execute programs based on 8086 microprocessor	K2
C310.2	Design Memory Interfacing circuits	K5
C310.3	Design and interface I/O circuits	K5
C310.4	Design and implement 8051 microcontroller based systems.	K5
C310.5	Design and implement 8051 microcontroller interfaces	K5

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	III & VI
Course Code & Name:	C311 & EC8095 VLSI DESIGN
Year of Study :	2019-2020

Course Code and Name: EC8095 VLSI DESIGN		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C311.1	Realize the concepts of digital building blocks using MOS transistor	K2
C311.2	Design combinational MOS circuits and power strategies.	K5
C311.3	Design and construct Sequential Circuits and Timing systems	K5
C311.4	Design arithmetic building blocks and memory subsystems.	K5
C311.5	Apply and implement FPGA design flow and testing	K3



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	III & VI
Course Code & Name:	C312 & EC8652 WIRELESS COMMUNICATION
Year of Study :	2019-2020

Course Code and Name: EC8652 WIRELESS COMMUNICATION		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C312.1	Understand the characteristic of wireless channel	K2
C312.2	Evolve system design Specifications	K3
C312.3	Design a cellular system based on resource availability and traffic demands	K5
C312.4	Identify suitable signaling and multipath mitigation techniques for the wireless channel	K2
C312.5	Design a multiple antenna Techniques	K5

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	III & VI
Course Code & Name:	C313 & MG8591 PRINCIPLES OF MANAGEMENT
Year of Study :	2019-2020

Course Code and Name: MG8591 PRINCIPLES OF MANAGEMENT		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C313.1	Understand about the management principles and organisations	K2
C313.2	Understand about the planning of management	K2
C313.3	Understanding about the organizing and staffing	K2
C313.4	Understanding about leading and directing of management	K2
C313.5	Understanding about controlling and have same basic knowledge on international aspect of management	K2



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	III & VI
Course Code & Name:	C314 & EC8651 TRANSMISSION LINES AND RF SYSTEMS
Year of Study :	2019-2020

Course Code and Name: EC8651 TRANSMISSION LINES AND RF SYSTEMS		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C314.1	Explain the characteristics of transmission lines and its losses	K2
C314.2	Write about the standing wave ratio and input impedance in high frequency transmission lines	K3
C314.3	Analyze impedance matching by stubs using smith charts	K4
C314.4	Analyze the characteristics of TE and TM waves	K4
C314.5	Design a RF transceiver system for wireless communication	K5

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	III & VI
Course Code & Name:	C315 & EC8004 WIRELESS NETWORKS
Year of Study :	2019-2020

Course Code and Name: EC8004 WIRELESS NETWORKS		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C315.1	Conversant with the latest 3G/4G networks and its architecture	K2
C315.2	Design and implement wireless network environment for any application using latest wireless protocols and standards	K5
C315.3	Select the suitable network depending on the availability and requirement	K3
C315.4	Implement different type of applications for smart phones and mobile devices with latest network strategies	K3
C315.5	Design Various 4G models and architecture	K5



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	III & VI
Course Code & Name:	C316 & EC8681 MICROPROCESSORS AND MICROCONTROLLERS LABORATORY
Year of Study :	2019-2020

Course Code and Name: EC8681 MICROPROCESSORS AND MICROCONTROLLERS LABORATORY		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C316.1	Write ALP Programmes for fixed and Floating Point and Arithmetic operations	K4
C316.2	Interface different I/Os with processor	K3
C316.3	Generate waveforms using Microprocessors	K4
C316.4	Execute Programs in 8051	K4
C316.5	Explain the difference between simulator and Emulator	K2

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	III & VI
Course Code & Name:	C317 & EC8661 VLSI DESIGN LABORATORY
Year of Study :	2019-2020

Course Code and Name: EC8661 VLSI DESIGN LABORATORY		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C317.1	Write HDL code for basic as well as advanced digital integrated circuit	K3
C317.2	Import the logic modules into FPGA Boards	K2
C317.3	Synthesize Place and Route the digital IPs	K4
C317.4	Design and Extract the layouts of Digital & Analog IC Blocks	K5
C317.5	Simulate IC blocks using EDA tools	K5



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	III & VI
Course Code & Name:	C318 & HS8581 PROFESSIONAL COMMUNICATION
Year of Study :	2019-2020

Course Code and Name: HS8581 PROFESSIONAL COMMUNICATION		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C318.1	Make effective presentations	K2
C318.2	Participate confidently in Group Discussions.	K2
C318.3	Attend job interviews and be successful in them.	K2
C318.4	Develop adequate Soft Skills required for the workplace	K3
C318.5	Develop the team management	K3

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	IV & VII
Course Code & Name:	C401 & EC8701 ANTENNAS AND MICROWAVE ENGINEERING
Year of Study :	2020-2021

Course Code and Name: EC8701 ANTENNAS AND MICROWAVE ENGINEERING		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C401.1	Apply the basic principles and evaluate antenna parameters	K3
C401.2	Apply the link power budgets.	K3
C401.3	Design and assess the performance of various antennas	K5
C401.4	Design the active and passive antennas	K5
C401.5	Design a microwave system given the application specifications	K5



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	IV & VII
Course Code & Name:	C402 & EC8751 OPTICAL COMMUNICATION
Year of Study :	2020-2021

Course Code and Name: EC8751 OPTICAL COMMUNICATION		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C402.1	Realize basic elements in optical fibers, different modes and configurations	K2
C402.2	Analyze the transmission characteristics associated with dispersion and polarization techniques.	K4
C402.3	Design optical sources and detectors with their use in optical communication system	K5
C402.4	Construct fiber optic receiver systems, measurements and coupling techniques.	K4
C402.5	Design optical communication systems and its networks.	K5

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	IV & VII
Course Code & Name:	C403 & EC8791 EMBEDDED AND REAL TIME SYSTEMS
Year of Study :	2020-2021

Course Code and Name: EC8791 EMBEDDED AND REAL TIME SYSTEMS		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C403.1	Describe the architecture and programming of ARM processor	K2
C403.2	Outline the concepts of embedded systems.	K2
C403.3	Explain the basic concepts of real time operating system design	K2
C403.4	Model real-time applications using embedded-system concepts	K3
C403.5	Understand the various real time OS in embedded systems	K2



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	IV & VII
Course Code & Name:	C404 & EC8702 AD HOC AND WIRELESS SENSOR NETWORKS
Year of Study :	2020-2021

Course Code and Name: EC8702 AD HOC AND WIRELESS SENSOR NETWORKS		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C404.1	Know the basics of Ad hoc networks and Wireless Sensor Networks	K2
C404.2	Apply this knowledge to identify the suitable routing algorithm based on the network and user requirement	K3
C404.3	Apply the knowledge to identify appropriate physical and MAC layer protocols	K3
C404.4	Understand the transport layer and security issues possible in Ad hoc and sensor networks.	K2
C404.5	Be familiar with the OS used in Wireless Sensor Networks and build basic modules	K2

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	IV & VII
Course Code & Name:	C405 & OML 751 TESTING OF MATERIALS
Year of Study :	2020-2021

Course Code and Name: OML 751 TESTING OF MATERIALS		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C405.1	Identify suitable testing technique to inspect industrial component	K2
C405.2	Understand the concept of mechanical Testing	K3
C405.3	Understand the concept of non destructive Testing	K3
C405.4	Understand the various characters of testing	K2
C405.5	Use the different technique and know its applications and limitations	K2



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	IV & VII
Course Code & Name:	C406 & EC8711 EMBEDDED LABORATORY
Year of Study :	2020-2021

Course Code and Name: EC8711 EMBEDDED LABORATORY		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C406.1	Write programs in ARM for a specific Application	K3
C406.2	Interface memory, A/D and D/A convertors with ARM system	K3
C406.3	Analyze the performance of interrupt	K4
C406.4	Write program for interfacing keyboard, display, motor and sensor	K3
C406.5	Formulate a mini project using embedded system	K5

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	IV & VII
Course Code & Name:	C407 & EC8761 ADVANCED COMMUNICATION LABORATORY
Year of Study :	2020-2021

Course Code and Name: EC8761 ADVANCED COMMUNICATION LABORATORY		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C407.1	Analyze the performance of simple optical link by measurement of losses and Analyzing the mode characteristics of fiber	K4
C407.2	Analyze the Eye Pattern, Pulse broadening of optical fiber and the impact on BER	K4
C407.3	Estimate the Wireless Channel Characteristics and Analyze the performance of Wireless Communication System	K3
C407.4	Understand the intricacies in Microwave System design	K2
C407.5	Demonstrate the Microwave IC Sockets	K4



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	IV & VIII
Course Code & Name:	C408 & EC8094 SATELLITE COMMUNICATION
Year of Study :	2020-2021

Course Code and Name: EC8094 SATELLITE COMMUNICATION		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C408.1	Analyze the satellite orbits	K4
C408.2	Analyze the earth segment and space segment	K4
C408.3	Analyze the satellite Link design	K4
C408.4	Analyze the satellite coding methods	K4
C408.5	Design various satellite applications	K5

Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	IV & VIII
Course Code & Name:	C409 & GE8076 PROFESSIONAL ETHICS IN ENGINEERING
Year of Study :	2020-2021

Course Code and Name: GE8076 PROFESSIONAL ETHICS IN ENGINEERING		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C409.1	Understand the concepts of Human values	K2
C409.2	Understand the concepts of Engineering ethics	K2
C409.3	Learn about the social experimentation	K2
C409.4	Understand the concepts of rights and duties	K2
C409.5	Discuss about the various global issues	K2



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Programme: B.E. Electronics and Communication Engineering	
Year & Semester:	IV & VIII
Course Code & Name:	C410 & EC8811 PROJECT WORK
Year of Study :	2020-2021

Course Code and Name: EC8811 PROJECT WORK		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C410.1	Use literature to identify the objective, scope and the concept of the work.	K2
C410.2	Apply suitable methods and materials to carry out experiments	K3
C410.3	Discuss the results obtained to derive conclusion	K3
C410.4	Defend the work by preparing a report as per the University format.	K2
C410.5	Compile the experimental information to publish in conference	K3