

(Approved by AICTE, New Delhi and affiliated to Anna University, Chennai) **Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India**

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

I YEAR/I SEMESTER -REGULATION 2021

B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C101.1: Use appropriate words in a professional context
		C101.2: Explain the basic grammatic structures and use them in right context.
		C101.3:
	PROFESSIONAL	Describe the denotative and connotative meanings of technical texts
HS3152	ENGLISH I	C101.4: Summarize about the definitions, descriptions, narrations and essays on various topics
		C101.5: Apply language effectively in professional contexts
		C101.6:
		Discuss the importance of read and write complex texts, summaries, articles, blogs, definitions, essays and user manuals.

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C101.1	2	2	2	2	2	2	2	2	2	2	-	2	-	-	-
C101.2	2	2	2	2	2	2	2	2	2	2	-	2	-	-	-
C101.3	2	2	2	2	2	2	2	2	2	2	2	2	-	-	-
C101.4	2	2	2	2	2	2	2	2	2	2	2	2	-	-	-
C101.5	2	2	2	2	-	2	2	2	2	2	-	2	-	-	-
C101.6	2	2	2	2	2	2	2	2	2	2	2	2	-	-	-
C101	2	2	2	2	2	2	2	2	2	2	2	2	-	-	-

^{*3-}High correlation; 2- Medium correlation; 1-Low correlation; '-' No correlation



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REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C102.1: Use the matrix algebra methods for solving practical problems
		C102.2: Apply differential calculus tools in solving various application problems
35.045.	MATRICES AND	C102.3: Describe the partial differential equations with initial and Lagrange's method by using certain techniques with engineering applications.
MA3151	CALCULUS	C102.4: Carry out the differentiation to solve maxima and minima problems.
		C102.5:Explain different methods of integration in solving practical problems
		C102.6:Determine multiple integral ideas in solving areas, volumes and other practical problems

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C102.1	3	3	2	2	-	-	-	-	-	1	-	1	-	1	-
C102.2	3	3	2	2	-	-	-	-	-	1	-	1	-	1	-
C102.3	3	3	2	2	-	-	-	-	-	1	-	1	-	1	-
C102.4	3	3	2	2	-	-	-	-	1	1	-	1	-	1	1
C102.5	3	3	2	2	-	-	-	-	-	1	-	1	-	1	-
C102.6	3	3	2	2	-	-	-	-	-	1	-	1	-	1	-
C102	3	3	2	2	-	-	-	-	-	1	-	1	-	1	-

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REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C103.1: Acknowledge the importance of mechanics
		C103.2:Express their knowledge in electromagnetic waves.
DII2151	ENGINEERING	C103.3:Demonstrate a strong foundational knowledge in oscillations,
PH3151	PHYSICS	C103.4:Establish the knowledge on optics and lasers
	THISICS	C103.5:Comprehend the importance of quantum physics
		C103.6: Comprehend and apply quantum mechanical principles towards the formation of energy bands.

					PRO	GRAN	1 OUT	COME	S				PSO			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	
C103.1	3	3	2	2	2	1	-	-	-	-	-	-	-	-	-	
C103.2	3	3	2	2	2	1	-	-	-	-	-	_	-	-	-	
C103.3	3	3	2	2	2	1	-	-	-	-	-	1	-	-	-	
C103.4	3	3	2	2	2	1	-	-	-	-	-	-	-	-	-	
C103.5	3	3	2	2	2	1	-	-	-	-	-	-	-	-	-	
C103.6	3	3	2	2	2	1	-	-	-	-	-	-	-	-	-	
C103	3	3	2	2	2	1	-	-	-	-	-	1	-	-	-	

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REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C104.1: Describe the quality of water from quality parameter data and propose suitable treatment methodologies to treat water.
		C104.2:Apply basic concepts of nanoscience and nanotechnology in designing the synthesis of nanomaterials for engineering and technology applications.
	ENGINEERING	C104.3: Use the knowledge of phase rule and composites for material selection requirements.
CY3151	CHEMISTRY	C104.4: Explain the suitable fuels for engineering processes and applications.
		C104.5: Discuss different forms of energy resources and apply them for suitable applications in energy sectors
		C104.6: Determine the importance of engineering materials, fuels, energy sources and water treatment techniques will facilitate better understanding of engineering processes and applications for further learning.

					PRO	GRAN	1 OUT	COME	S					PSO	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C104.1	3	2	2	1	-	1	1	-	-	-	-	1	-	-	-
C104.2	3	2	2	1	-	1	1	-	1	-	-	-	_	_	-
C104.3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-
C104.4	3	2	2	-	-	1	1	-	-	-	-	-	-	-	-
C104.5	3	2	2	-	-	1	1	-	-	-	-	-	-	-	-
C104.6	3	2	2	1	-	1	1	-	-	-	-	1	-	-	-
C104	3	2	2	1	-	1	1	-	-	-	-	1	-	-	-

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REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C105.1:Develop algorithmic solutions to simple computational problems
		C105.2: Develop and execute simple Python programs.
CE2151	PROBLEM SOLVING	C105.3: Write simple Python programs using conditionals and loops for solving problems.
GE3151	AND PYTHON PROGRAMMING	C105.4:Describe a Python program into functions.
		C105.5:Describe compound data using Python lists, tuples, dictionaries etc.
		C105.6: Explain the importance of Read and write data from/to files in Python programs.

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C105.1	3	3	2	2	2	-	-	-	-	-	2	2	3	3	-
C105.2	3	3	2	2	2	-	-	_	-	-	2	2	3	-	-
C105.3	3	3	2	2	2	-	-	-	-	-	2	-	3	-	-
C105.4	3	3	2	2	2	-	-	-	-	-	2	-	3	-	-
C105.5	3	3	2	2	2	-	-	-	-	-	2	-	3	-	-
C105.6	3	3	2	2	2	-	-	-	-	-	2	-	3	-	-
C105	3	3	2	2	2	-	-	-	-	-	2	2	3	3	•

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REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C106.1:Discuss the Tamil language and literature.
		C106.2:Explain about the modern-art sculpture.
		C106.3:Illustrate the folk and martial arts.
GE3152	HERITAGE OF TAMILS	C106.4:Describe the Thinai concepts of Tamil.
	TAMILS	C106.5:Summarize the contribution of Tamil in Indianculture.
		C106.6:Define the role of siddha medicine.

					PRO	GRAM	1 OUT	COMI	ES				PSO			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	
C106.1	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-	
C106.2	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-	
C106.3	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-	
C106.4	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-	
C106.5	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-	
C106.6	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-	
C106	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-	

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REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to					
		C107.1:Develop algorithmic solutions to simple computational problems					
	PROBLEM SOLVING AND PYTHON	C107.2:Develop and execute simple Python programs.					
GE3171		C107.3:Implement programs in Python using conditionals and loops for solving problems.					
GE31/1	PROGRAMMING LABORATORY	C107.4:Describe functions to decompose a Python program.					
	LABORATORY	C107.5: Explain compound data using Python data structures.					
		C107.6:Utilize Python packages in developing software applications.					

					PRO	GRAN	1 OUT	COMI	ES				PSO			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	
C107.1	3	3	2	2	2	-	-	-	-	-	2	2	3	3	-	
C107.2	3	3	2	2	2	-	-	-	-	-	2	2	3	-	-	
C107.3	3	3	2	2	2	-	ı	-	ı	-	2	-	3	-	-	
C107.4	3	3	2	2	2	-	-	-	-	-	2	-	3	-	-	
C107.5	3	3	2	2	2	-	-	-	-	-	2	-	3	-	-	
C107.6	3	3	2	2	2	-	-	-	-	-	2	-	3	-	-	
C107	3	3	2	2	2	-	-	-	-	-	2	2	3	3	-	

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REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C108.1: Explain the functioning of various physics laboratory equipment
		C108.2: Use graphical models to analyze laboratory data
BS3171	PHYSICS AND CHEMISTRY	C108.3: Apply mathematical models as a medium for quantitative reasoning and describing physical reality
		C108.4:
	LABORATORY	Describe products and processes and explain their uses and
		purposes clearly and accurately C Access, process and
		analyze scientific information.
		C108.5:
		Solve problems individually and collaboratively
		C108.6:Determine the amount of metal ions through volumetric and spectroscopic techniques.

					PSO										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C108.1	3	3	3	1	1	-	-	-	-	-	-	-	-	-	-
C108.2	3	3	3	1	1	-	-	-	-	-	-	-	-	-	-
C108.3	3	3	3	1	1	-	-	-	-	-	_	-	-	-	-
C108.4	3	3	3	1	1	-	-	-	-	-	-	-	-	-	-
C108.5	3	3	3	1	1	-	-	-	-	-	-	-	-	-	-
C108.6	3	3	3	1	1	-	ı	-	ı	-	-	-	-	ı	-
C108	3	3	3	1	1	-	•	-	•	-	-	-	-	•	-

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REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C109.1:Describe and comprehend general as well as complex academic information
		C109.2:Explain different points of view in a discussion
	ENGLISH	C109.3: Explain formal and informal communicative contexts
GE3172	LABORATORY	C109.4: Describe products and processes and explain their uses and purposes clearly and accurately
		C109.5:Express their opinions effectively in both formal and informal discussions
		C109.6:Use language efficiently in expressing their opinions via various media.

					PSO										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C109.1	3	3	3	3	2	2	2	2	1	1	1	1	_	_	-
C109.2	3	3	3	3	2	2	2	2	1	1	1	1	-	-	-
C109.3	3	3	3	3	2	2	2	2	1	1	1	1	-	-	-
C109.4	3	3	3	3	2	2	2	2	1	1	1	1	-	-	-
C109.5	3	3	3	3	2	2	2	2	1	1	1	1	_	_	-
C109.6	3	3	3	3	2	2	2	2	1	1	1	1	-	_	-
C109	3	3	3	3	2	2	2	2	1	1	1	1	-	-	-

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

I YEAR/II SEMESTER-REGULATION 2021

B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C110.1: Compare and contrast products and ideas in technical texts.
		C110.2: Identify and report cause and effects in events, industrial processes through technical texts
	PROFESSIONAL	C110.3: Analyse problems in order to arrive at feasible solutions and communicate them in thewritten format.
HS3252	ENGLISH-II	C110.4: Explain the importance of present their ideas and opinions in a planned and logical manner
		C110.5: Design effective resumes in the context of job search.
		C110.6:
		Demonstrate an understanding of job applications and interviews for internship and placements.

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C110.1	3	3	3	3	2	2	2	2	1	1	1	1	-	-	-
C110.2	3	3	3	3	2	2	2	2	1	1	1	1	-	-	ı
C110.3	3	3	3	3	2	2	2	2	1	1	1	1	-	-	-
C110.4	3	3	3	3	2	2	2	2	1	1	1	1	-	-	-
C110.5	3	3	3	3	2	2	2	2	1	1	1	1	-	-	-
C110.6	3	3	3	3	2	2	2	2	1	1	1	1	-	-	-
C110	3	3	3	3	2	2	2	2	1	1	1	1	-	-	-

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REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
	STATISTICS AND	C111.1:Apply the concept of testing of hypothesis for small and large samples in real life problems. C111.2:Apply the basic concepts of classifications of design of experiments in the field of agriculture.
MA3251	NUMERICAL	C111.3:Describe the numerical techniques of interpolation in various intervals
NIA3251	METHODS	C111.4:Apply the numerical techniques of differentiation and integration for engineering problems
		C111.5: :Explain the knowledge of various techniques and methods for solving first and second order ordinary differential equations.
		C111.6 Describe the partial and ordinary differential equations with initial and boundary conditions by using certain techniques with engineering applications.

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C111.1	3	3	3	2	2	-	-	-	1	-	1	1	-	-	-
C111.2	3	3	3	2	2	-	-	-	1	-	1	1	-	-	-
C111.3	3	3	3	2	2	-	-	-	1	-	1	1	-	-	-
C111.4	3	3	3	2	2	-	-	-	1	-	1	1	-	-	-
C111.5	3	3	3	2	2	-	-	-	1	-	1	1	-	-	-
C111.1	3	3	3	2	2	-	-	-	1	-	1	1	-	-	-
C111	3	3	3	2	2	-	-	-	1	•	1	1	-	-	-

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021

B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to							
		C112.1:Illustrate basics of crystallography and its importance for varied materials properties							
	PHYSICS FOR	C112.2:Gain knowledge on the electrical and magnetic properties of materials and their applications							
D112254	ELECTRONICS	C112.3:Grasp knowledge on magnetic properties and applications							
PH3254	ENGINEERING	C112.4:Explain clearly of semiconductor physics and functioning of semiconductor devices							
		C112.5:Decribe the optical properties of materials and working principles of various optical devices							
		C112.6:Appreciate the importance of nanotechnology and nano devices.							

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C112.1	3	2	2	2	1	1	1	_	-	1	-	1	-	-	-
C112.2	3	2	2	2	1	1	1	-	-	1	-	1	-	-	-
C112.3	3	2	2	2	1	1	1	-	-	1	-	1	-	-	-
C112.4	3	2	2	2	1	1	1	-	-	1	-	1	-	-	-
C112.5	3	2	2	2	1	1	1	-	-	1	-	1	-	-	-
C112.6	3	2	2	2	1	1	1	-	-	1	-	1	-	-	-
C112	3	2	2	2	1	1	1	-	•	1	-	1	-	-	-

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REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C113.1: Explain the operation of three phase power supply systems and power system
	ELECTRICAL AND	C113.2: Analyze the working of transformer and to build its mathematical model
BE3254	INSTRUMENTATION	C113.3: Explain the principles of DC electrical machines
BE3234	ENGINEERING	C113.4: Explain the operation of AC electrical machines
		C113.5: Explain the characteristics of the measuring instruments and its errors.
		C113.6: Explain the working of different types of transducers, storage and display devices

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C113.1	2	1	1	-	-	-	-	1	-	-	-	-	-	-	-
C113.2	2	1	1	-	-	-	-	1	-	-	-	-	-	-	-
C113.3	2	1	1	-	-	-	-	1	-	-	-	-	-	-	-
C113.4	2	1	1	-	-	-	-	1	-	-	-	-	-	-	-
C113.5	2	1	1	-	-	-	-	1	-	-	_	-	-	-	-
C113.6	2	1	1	-	-	-	-	1	-	-	-	-	-	-	-
C113	2	1	1	-	-	-	-	1	-	-	-	-	-	-	-

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REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C114.1: Use BIS conventions and specifications for engineering drawing.
		C114.2: Construct the conic curves, involutes and cycloid
CE2251	ENGINEERING	C114.3: Solve practical problems involving projection of lines
GE3251	GRAPHICS	C114.4: Draw the orthographic, isometric and perspective projections of simple solids
		C114.5: Draw the development of simple solids
		C114.6:Draw Engineering curves

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C114.1	3	2	2	-	2	-	-	-	ı	2	-	2	2	2	-
C114.2	3	2	2	-	2	-	-	-	-	2	-	2	2	2	-
C114.3	3	2	2	-	2	-	-	-	-	2	-	2	2	2	-
C114.4	3	2	2	-	2	-	-	-	-	2	-	2	2	2	-
C114.5	3	2	2	-	2	-	-	-	_	2	-	2	2	2	-
C114.6	3	2	2	-	2	-	-	-	-	2	-	2	2	2	-
C114	3	2	2	-	2	-	-	-	-	2	-	2	2	2	-

^{*3-}High correlation; 2- Medium correlation; 1-Low correlation; '-' No correlation



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
EC3251	CIRCUIT ANALYSIS	C115.1: Apply the basic concepts of circuit analysis such as Kirchoff's laws, mesh current and node voltage method for analysis of DC and AC circuits. C115.2: Apply suitable network theorems and analyze AC and DC circuits C115.3: Analyze steady state response of any R, L and C circuits C115.4: Analyze the transient response for any RC, RL and RLC circuits and frequency response of parallel and series resonance circuits. C115.5: Analyze frequency response of parallel and series resonance circuits
		C115.6: Analyze the coupled circuits and network topologies

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C115.1	3	3	3	2	-	-	-	1	-	1	-	-	-	-	-
C115.2	3	3	3	2	-	-	-	1	-	1	-	-	-	-	-
C115.3	3	3	3	2	-	-	-	1	-	1	-	-	-	-	-
C115.4	3	3	3	2	-	-	-	1	-	1	-	-	-	-	-
C115.5	3	3	3	2	-	-	-	1	-	1	-	-	-	-	-
C115.6	3	3	3	2	-	-	-	1	-	1	-	-	-	-	-
C115	3	3	3	2	-	-	-	1	-	1	-	-	-	-	-

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C116.1:Explain about the weaving and pottery technology in Tamilnadu
		C116.2:Describe about the design and construction technologyin Tamilnadu
GE3252	TAMILS AND	C116.3:Discuss about the manufacturing technology in Tamilnadu C116.4:Illustrate the agriculture and irrigation technology in
GE3232	TECHNOLOGIES	Tamilnadu C116.5:Define the growth of science in Tamil.
		C116.6:Learn the contribution of the Tamils to Indian culture

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C116.1	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C116.2	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C116.3	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C116.4	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C116.5	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C116.6	-	ı	-	-	ı	3	3	2	1	2	-	2	-	1	ı
C116	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C117.1: Draw pipe line plan; lay and connect various pipe fittings used in common household plumbingwork
		C117.2: Explain various joints in wood materials used in commonhousehold wood work
		C117.3: Design various wire electrical joints in common householdelectrical wire work
(2H/37/1	ENGINEERING PRACTICES LABORATORY	C117.4: Weld various joints in steel plates using arc welding work; Machine various simple processes like turning, drilling, tapping in parts; Assemble simple mechanical assembly of common household equipments
		C117.5: Solder and test simple electronic circuits; Assemble and test simple electronic components on PCB
		C117.6: Design a tray out of metal sheet using sheet metal work

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C117.1	3	2	-	-	1	1	1	-	2	2	-	1	2	1	1
C117.2	3	2	ı	-	1	1	1	-	2	2	-	1	2	1	1
C117.3	3	2	-	-	1	1	1	-	2	2	_	1	2	1	1
C117.4	3	2	-	-	1	1	1	-	2	2	-	1	2	1	1
C117.5	3	2	-	-	1	1	1	-	2	2	-	1	2	1	1
C117.6	3	2	1	-	1	1	1	-	2	2	-	1	2	1	1
C117	3	2	-	-	1	1	1	-	2	2	-	1	2	1	1

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021

B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C118.1: Identify the basic devices and its configurations
	CVD CV WEG	C118.2: Analyze the resistive circuits with different sources
	CIRCUITS	C118.3: Design RL and RC circuits
EC3271	ANALYSIS	C118.4: Verify Thevinin & Norton theorem KVL & KCL, and
	LABORATORY	Super Position Theorems
		C118.5: Explain the response of RLC circuit with different inputs
		C118.6:.Obtain the resonance for different configurations of RLC

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C118.1	3	3	3	3	2	-	2	1	-	2	-	1	3	3	3
C118.2	3	3	3	3	2	-	2	1	ı	2	-	1	3	3	3
C118.3	3	3	3	3	2	-	2	1		2	-	1	3	3	3
C118.4	3	3	3	3	2	-	2	1	-	2	-	1	3	3	3
C118.5	3	3	3	3	2	-	2	1	-	2	-	1	3	3	3
C118.6	3	3	3	3	2	-	2	1	-	2	-	1	3	3	3
C118	3	3	3	3	2	-	2	1	-	2	-	1	3	3	3

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C119.1: Speak effectively in group discussions held in formal/semi formal contexts.
		C119.2:Discuss, analyse and present concepts and problems from various perspectives to arrive atsuitable solutions
	COMMUNICATION	C119.3: Write emails, letters and effective job applications.
GE3272	LABORATORY	C119.4:Write critical reports to convey data and information with clarity and precision
		C119.5: Give appropriate instructions and recommendations for safe execution of tasks
		C119.6: Respond intelligently and seek clarification and understand completely

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C119.1	3	3	3	3	3	3	3	3	3	3	3	3	-	ı	-
C119.2	3	3	3	3	3	3	3	3	3	3	3	3	-	ı	ı
C119.3	3	3	3	3	3	3	3	3	3	3	3	3	-	-	1
C120.4	3	3	3	3	3	3	3	3	3	3	3	3	-	-	-
C119.5	3	3	3	3	3	3	3	3	3	3	3	3	-	_	_
C119.6	3	3	3	3	3	3	3	3	3	3	3	3	-	ı	-
C119	3	3	3	3	3	3	3	3	3	3	3	3	-	-	-

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

II YEAR /III SEMESTER - REGULATION 2021

B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to						
		C201.1: Explain the basic concepts of one dimensional random variables						
	DANDOM	C201.2: Explain the fundamental concepts of p robability with a thorough knowledge of standarddistributions that can describe certain real-life phenomenon.						
MA3355	RANDOM PROCESSES AND	C201.3: Apply the basic concepts of two dimensional random variables to model engineering problems						
	LINEAR ALGEBRA	C201.4: Apply the concept of random processes in engineering disciplines						
		C201.5: Explain the fundamental concepts of advanced algebra and their role in modernmathematics and applied contexts						
		C201.6: Demonstrate accurate and efficient use of advanced algebraic techniques.						

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C201.1	3	3	1	-	-	-	-	-	3	-	-	2	-	-	-
C201.2	3	3	1	-	-	-	-	-	3	-	-	2	-	-	-
C201.3	3	3	1	-	-	-	-	-	3	-	-	2	-	-	-
C201.4	3	3	1	-	-	-	-	-	3	-	-	2	-	-	-
C201.5	3	3	1	-	-	-	-	-	3	-	=	2	-	-	-
C201.6	3	3	1	-	-	-	-	-	3	-	-	2	-	-	-
C201	3	3	1	-	-	-	-	-	3	-	-	2	-	-	-

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REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C202.1:Develop C programs for any real world/technical application
		C202.2: Apply advanced features of C in solving problems.
CS3353	C PROGRAMMING AND	C202.3: Write functions to implement linear and non—linear data structure operations.
	DATA STRUCTURES	C202.4:Suggest and use appropriate linear/non-linear data structure operations for solving a givenproblem
		C202.5: Appropriately use sort and search algorithms for a given application
		C202.6: Apply appropriate hash functions that result in a collision free scenario for data storage and retrieval.

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C202.1	2	2	2	2	2	1	1	-	1	1	1	3	2	1	3
C202.2	2	2	2	2	2	-	-	-	1	1	1	2	2	2	2
C202.3	2	2	2	2	2	-	-	-	1	1	1	2	2	1	2
C202.4	2	2	2	2	2	-	-	-	1	1	1	2	2	3	1
C202.5	2	2	2	2	2	-	-	-	1	1	1	3	2	2	3
C202.6	2	2	2	2	2	1	1	-	1	1	1	2	2	2	2
C202	2	2	2	2	2	1	1	-	1	1	1	2	2	2	2

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C203.1: Determine if a given system is linear/causal/stable
		C203.2: Determine the frequency components present in a continuous time signal.
EC3354	SIGNALS AND SYSTEMS	C203.3: Characterize continuous LTI systems in the time domain and frequency domain
	SISIEMS	C203.4: Characterize discrete LTI systems in the time domain and frequency domain
		C203.5: Analyze discrete time signals and system in the Fourier and Z transform domain
		C203.6: Compute the output of an LT I system in the time and frequency domains

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C203.1	3	3	3	3	2	2	-	-	-	-	-	1	2	1	1
C203.2	3	3	3	3	2	2	-	-	-	-	-	1	2	1	1
C203.3	3	3	3	3	2	2	-	-	-	-	-	1	2	1	1
C203.4	3	3	3	3	2	2	-	-	-	-	-	1	2	1	1
C203.5	3	3	3	3	2	2	-	-	-	-	-	1	2	1	1
C203.6	3	3	3	3	2	2	-	-	-	-	-	1	2	1	1
C203	3	3	3	3	2	2	-	-	•	-	-	1	2	1	1

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C204.1: Explain the structure and working operation of basic electronic devices.
		C204.2:Design and analyze amplifiers.
EC3353	ELECTRONIC DEVICES AND	C204.3: Analyze frequency response of BJT and MOSFET amplifiers
	CIRCUITS	C204.4:Design and analyze feedback amplifiers and oscillator principles.
		C204.5:Design power amplifiers and supply circuits
		C204.6: Analyze power amplifiers and supply circuits

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C204.1	3	3	3	3	2	2	-	-	-	-	2	3	3	3	3
C204.2	3	3	3	3	2	2	-	-	-	-	2	2	3	3	3
C204.3	3	3	3	3	2	2	-	-	-	-	2	3	3	2	3
C204.4	3	3	3	3	2	2	-	-	-	-	2	2	3	3	3
C204.5	3	3	3	3	2	2	-	-	-	-	2	3	2	2	3
C204.6	3	3	3	3	2	2	-	-	=	-	2	3	2	2	3
C204	3	3	3	3	2	2	-	-	-	-	2	3	2	2	3

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to								
		C205.1:Compute the transfer function of different physical systems.								
		C205.2: Analyse the time domain specification and calculate the steady state error.								
EC3351	CONTROL SYSTEMS	C205.3:Illustrate the frequency response characteristics of open loop and closed loop system response								
		C205.4: Analyse the stability using Routh and root locus techniques.								
		C205.5:Illustrate the state space model of a physical system								
		C205.6:Discuss the concepts of sampleddata control system								

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C205.1	3	3	3	2	2	2	-	-	-	2	3	2	3	3	2
C205.2	3	3	3	2	2	2	-	-	-	2	2	2	2	3	2
C205.3	3	3	3	2	2	2	-	-	-	2	2	2	3	3	2
C205.4	3	3	3	2	2	2	-	-	-	2	3	2	2	3	1
C205.5	3	3	3	2	2	2	-	-	-	2	2	2	3	3	2
C205.6	3	3	3	2	2	2	=	-	-	2	2	2	3	3	2
C205	3	3	3	2	2	2	-	-	-	2	2	2	3	3	2

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C206.1: Explain the Boolean algebra and simplification procedures relevant to digital logic
		C206.2Design various combinational digital circuits using logic gates
EC3352	DIGITAL SYSTEMS DESIGN	C206.3: Analyse and design synchronous sequential circuits
		C206.4: Analyse asynchronous sequential circuits
		C206.5:Design asynchronous sequential circuits
		C206.6:Build logic gates and use programmable devices

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C206.1	3	3	3	2	2	-	-	-	2	2	3	3	3	3	2
C206.2	3	3	3	2	2	-	-	=	2	2	2	1	2	3	2
C206.3	3	3	3	2	2	-	-	-	2	2	2	2	3	3	2
C206.4	3	3	3	2	2	-	-	-	2	2	3	2	2	3	1
C206.5	3	3	3	2	2	-	-	-	2	2	2	2	3	3	2
C206.6	3	3	3	2	2	-	-	-	2	2	2	2	3	3	2
C206	3	3	3	2	2	-	-	-	2	2	2	2	3	3	2

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REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to						
		C207.1:Characteristics of PN Junction Diode and Zener diode						
		C207.2:Design an Testing of BJT and MOSFET amplifiers.						
	ELECTRONIC DEVICES AND	C207.3: Verify the operation of power amplifiers. C207.3: Design of Zener diode Regulator						
EC3361	C3361 DEVICES AND CIRCUITS LABORATORY							
	Laboration	C207.4:Determine Frequency response of CE and CS amplifiers						
		C207.5: Design and Testing of BJT and MOSFET amplifiers						
		C207.6:Determine Frequency response of CB and CC amplifiers						

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C207.1	2	2	2	2	2	1	-	-	2	2	2	1	2	1	1
C207.2	2	2	2	2	2	1	-	-	2	2	2	1	2	1	1
C207.3	2	2	2	2	2	1	-	-	2	2	2	1	2	1	1
C207.4	2	2	2	2	2	1	-	-	2	2	2	1	2	1	1
C207.5	2	2	2	2	2	1	-	_	2	2	2	1	2	1	1
C207.6	2	2	2	2	2	1	-	-	2	2	2	1	2	1	1
C207	2	2	2	2	2	1	•	-	2	2	2	1	2	1	1

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to								
		C208.1:Use different constructs of C and develop applications.								
		C208.2: Write functions to implement linear and non-linear data structure operations.								
CS3362	C PROGRAMMING AND DATA STRUCTURES	C208.3: Suggest and use the appropriate linear / non-linear data structure operations for a givenproblem								
	LABORATORY	C208.4: Apply appropriate hash functions that result in a collision free scenario for data storage and Retrieval								
		C208.5: Implement Sorting and searching algorithms for a given application								
		C208.6:Implement searching algorithms for a given application								

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C208.1	2	3	2	2	2	1	1	-	1	1	1	1	2	2	2
C208.2	2	2	2	2	2	-	-	-	1	1	1	1	2	2	2
C208.3	2	2	2	2	2	-	-	-	1	1	1	1	2	2	2
C208.4	2	2	2	2	1	-	-	-	1	1	1	1	2	2	2
C208.5	2	2	2	2	2	1	1	-	1	1	1	1	2	2	2
C208.6	2	2	2	2	2	1	1	-	1	1	1	1	2	2	2
C208	2	2	2	2	2	1	1	-	1	1	1	1	2	2	2

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
GE3361	PROFESSIONAL DEVELOPMENT	Use MS Word to create quality documents, by structuring and organizing content for their day to day technical requirements. C209.2: Use MS Word to create quality documents, by structuring and organizing content for their day to day academic requirements. C209.3: Use MS EXCEL to perform and visualize data for ease of understanding C209.4: Use MS EXCEL to perform data operations and analytics, record, retrieve data as perrequirements C209.5: Use MS PowerPoint to create high quality academic presentations by including commontables, charts, graphs. C209.6: Use MS PowerPoint to create high quality academic presentations by interlinking other elements, and using media objects

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C209.1	2	2	2	2	1	1	1	-	-	-	-	-	-	-	-
C209.2	2	2	2	2	1	-	-	-	ı	-	-	-	-	-	-
C209.3	2	2	2	2	1	-	-	-	-	-	-	-	-	-	-
C209.4	2	2	2	2	1	-	-	-	-	-	-	-	-	-	-
C209.5	2	2	2	2	1	1	1	-	=	-	-	=	-	-	-
C209.6	2	2	2	2	1	-	-	-	-	-	-	-	-	-	-
C209	2	2	2	2	1	1	1	-	•	-	-	-	-	-	-

^{*3-}High correlation; 2- Medium correlation; 1-Low correlation; '-' No correlation



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

II YEAR/IV SEMESTER -REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C210.1: Relate the fundamentals of vector, coordinate system to electromagnetic concepts.
		C210.2: Analyze the characteristics of Electrostatic field
EC3452	ELECTROMAGNETIC	C210.3: Interpret the concepts of Electric field in material space and solve the boundary conditions
EC3432	FIELDS	C210.4:Explain the concepts and characteristics of Magneto Static field in material space and solve boundary conditions
		C210.5:Determine the significance of time varying fields
		C210.6: Determine the characteristics impedance ,wavelength, intrinsic impedance, group velocity and phase velocity of plane waves.

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C210.1	2	2	2	2	-	2	1	-	-	1	-	2	1	1	1
C210.2	3	3	2	2	2	2	1	-	-	1	1	2	1	1	1
C210.3	2	2	2	2	2	2	1	-	-	1	1	2	1	1	1
C210.4	2	2	2	2	2	2	1	-	-	1	1	2	1	1	1
C210.5	2	2	2	2	2	2	1	-	-	1	1	2	1	1	1
C210.6	2	2	2	2	2	2	1	-	=	1	1	2	1	1	1
C210	2	2	2	2	2	2	1	-	-	1	1	2	1	1	1

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C211.1: Explain the Network Models, layers and functions
		C211.2: Categorize and classify the routing protocols.
EC3401	NETWORKS AND SECURITY	C211.3: List the functions of the transport and application layer
	SECURITI	C211.4: Evaluate and choose the network security mechanisms.
		C211.5: Discuss the hardware security attacks and countermeasures
		C211.6: Discuss the Protocols and email Security

	COTOMMINIO														
				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C211.1	3	3	2	2	-	-	1	-	2	2	-	2	2	3	2
C211.2	3	3	2	2	2	-	1	-	2	2	-	2	2	3	1
C211.3	3	3	2	2	1	-	1	-	2	2	-	2	2	3	1
C211.4	3	3	2	2	1	-	1	-	2	2	-	2	2	3	1
C211.5	3	3	2	2	1	-	1	-	2	2	-	2	2	3	1
C211.6	3	3	2	2	2	-	1	-	2	2	-	2	2	3	1
C211	3	3	2	2	2	-	1	-	2	2	-	2	2	3	1

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021

B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C212.1:Describe the characteristics of operational amplifiers.
		C212.2:Design linear and nonlinear applications of OP – AMPS
EC3451		C212.3: Design applications using analog multiplier and PLL
		C212.4:Design ADC and DAC using OP – AMPS
		C212.5:Generate waveforms using OP – AMP Circuits.
		C212.6: Infer the applications of special function ICs

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C212.1	3	3	2	2	2	-	-	-	1	1	1	-	2	1	1
C212.2	3	3	2	2	2	-	-	-	1	1	-	-	2	1	1
C212.3	3	3	2	2	2		-	-	1	1	-	-	2	1	1
C212.4	3	3	2	2	2	-	-		1	1	-	-	2	1	1
C212.5	3	3	2	2	2	-	-	-	1	1	-	-	2	1	1
C212.6	3	3	2	2	2	-	=	-	1	1	-	1	2	1	1
C212	3	3	2	2	2	-	-	-	1	1	1	1	2	1	1

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to								
		C213.1:Apply DFT for the analysis of digital signals and systems								
		C213.2:Design IIR filters								
	DIGITAL SIGNAL	C213.3:Design FIR filters								
EC3492	PROCESSING	C213.4: Characterize the effects of finite precision representation on digital filters								
		C213.5:Explain the architecture of DSP Processors								
		C213.6:Design multirate filters and apply adaptive filters appropriately in communication systems								

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C213.1	3	3	2	2	2	-	-	-	2	2	1	1	3	3	2
C213.2	3	3	2	2	2	-	-	-	2	2	1	1	2	2	2
C213.3	3	3	2	2	2	-	-	-	2	2	1	1	1	2	2
C213.4	3	3	2	2	2	-	-	-	2	2	1	1	2	2	3
C213.5	3	3	2	2	2	-	-	-	2	2	1	1	2	2	2
C213.6	3	3	2	2	2	-	-	-	2	2	1	1	2	2	2
C213	3	3	2	2	2	-	-	-	2	2	1	1	2	2	2

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to										
		C214.1: Gain knowledge in amplitude modulation techniques.										
	COMMUNICATION	C214.2: Explain the concepts of Random Process to the design of communication systems										
EC3491	COMMUNICATION SYSTEMS	C214.3: Gain knowledge in digital techniques										
		C214.4: Gain knowledge in sampling and quantization										
		C214.5:Explain the importance of demodulation techniques										
		C214.6:Implement the control coding schemes in communication systems										

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C214.1	3	3	3	3	2	1	1	-	-	1	1	1	2	1	1
C214.2	3	3	3	3	2	1	1	-	-	1	1	1	2	1	1
C214.3	3	3	3	3	2	1	1	-	-	1	1	1	2	1	1
C214.4	3	3	3	3	2	1	1	-	-	1	1	1	2	1	1
C214.5	3	3	3	3	2	1	1	-	-	1	1	1	2	1	1
C214.6	3	3	3	3	2	1	1	-	-	1	1	1	2	1	1
C214	3	3	3	3	2	1	1	-	-	1	1	1	2	1	1

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to						
		C215.1:Explain the functions of environment, ecosystems and biodiversity and their conservation						
		C215.2:Identify the causes, effects of environmental pollution and natural disasters and contribute to the preventive measures in the society						
CE2451	ENVIRONMENTAL SCIENCES AND	C215.3: Identify and apply the understanding of renewable and non-renewable resources and contribute to the sustainable measures to preserve them for future generations						
GE3451	SUSTAINABILITY	C215.4: Explain the different goals of sustainable development and apply them for suitable technological advancement and societal development.						
		C215.5: Demonstrate the knowledge of sustainability practices and identify green materials and energy cycles.						
		C215.6:Demonstrate the knowledge of sustainability practices and identify green materials, energy cycles and the role of sustainable urbanization						

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C215.1	3	2	-	-	-	2	2	-	-	2	-	2	-	-	-
C215.2	3	2	-	-	-	2	2	-	-	2	-	2	-	-	-
C215.3	3	2	2	-	-	2	2	-	-	2	-	2	-	-	-
C215.4	3	2	2	2	-	2	2	-	-	2	-	2	-	-	-
C215.5	3	2	2	-	-	2	2	-	-	2	-	2	-	-	-
C215.6	3	2	2	-	-	2	2	-	-	2	-	2	_	-	-
C215	3	2	2	2	-	2	2			2	-	2	-	-	-

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021

B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to									
		C216.1: Design AM, FM & Digital Modulators for specific applications.									
		C216.2:Compute the sampling frequency for digital modulation									
ECOA(4	COMMUNICATION SYSTEMS	C216.3: Simulate & validate the various functional modules of Communication system.									
EC3461	LABORATORY	C216.4: Demonstrate their knowledge in base band signaling schemes through implementation of digital modulation schemes									
		C216.5: Apply various channel coding schemes in Communication system.									
		C216.6:Demonstrate their capabilities towards the improvement of the noise performance of Communication system									

				PSO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C216.1	3	3	3	3	3	3	-	-	1	1	1	1	2	1	1
C216.2	3	3	3	3	3	3	ı	-	1	1	1	1	2	1	1
C216.3	3	3	3	3	3	3	-	-	1	1	1	1	2	1	1
C216.4	3	3	3	3	3	3	-	-	1	1	1	1	2	1	1
C216.5	3	3	3	3	3	3	-	-	1	1	1	1	2	1	1
C216.6	3	3	3	3	3	3	ı	-	1	1	1	1	2	1	1
C216	3	3	3	3	3	3	•	•	1	1	1	1	2	1	1

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to							
		C217.1: Analyze various types of feedback amplifiers.							
		C217.2:Design oscillators, tuned amplifiers, wave-shaping circuits and multivibrators							
EC3462	LINEAR INTEGRATED CIRCUITS LABORATORY	C217.3:Design and simulate feedback amplifiers, oscillators, tuned amplifiers, wave-shaping circuits and multivibrators, filters using SPICE Tool							
		C217.4:Design amplifiers, oscillators, D-A converters using operational amplifiers							
		C217.5:Design filters using operational amplifiers							
		C217.6:To perform an experiment on frequency response of amplifiers							

					PRO	GRAN	1 OUT	COME	ES					PSO	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C217.1	3	3	3	3	2	-	-	-	2	2	1	1	2	1	1
C217.2	3	3	3	3	2	-	-	-	2	2	1	1	2	1	1
C217.3	3	3	3	3	2	-	-	-	2	2	1	1	2	1	
C217.4	3	3	3	3	2	-	-	-	2	2	1	1	2	1	1
C217.5	3	3	3	3	2	-	-	-	2	2	-	-	-	-	-
C217.6	3	3	3	3	2	-	-	-	2	2	1	1	2	1	1
C217	3	3	3	3	2	-	-	-	2	2	1	1	2	1	1

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

III YEAR /V SEMESTER -REGULATION 2021

B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C301.1: Explain the Concept And Design Of A Cellular System.
		C301.2: Describe the Mobile Radio Propagation.
	WIRELESS	C301.3: Discuss the Various Digital Modulation Techniques.
EC3501	COMMUNICATION	C301.4: Explain the Concepts Of Multiple Access Techniques And Wireless Networks
		C301.5: Characterize a wireless channel and evolve the system design specifications
		C301.6: Design a cellular system based on resource availability and traffic demands.

	PROGRAM OUTCOMES														PSO				
	P01	P02	P03	P04	P05	P06	P07	P08	P09	PO 10	P0 11	PO 12	PSO 1	PSO 2	PSO 3				
C301.1	3	3	2	2	2	2	-	-	2	2	=	1	3	1	1				
C301.2	3	3	2	2	2	2	-	-	2	2	-	-	3	1	2				
C301.3	3	3	2	2	2	2	-	-	2	2	1	1	3	1	2				
C301.4	3	3	2	2	2	2	-	-	2	2	1	1	2	1	1				
C301.5	3	3	2	2	2	2	-	-	2	2	-	1	2	2	2				
C301.6	3	3	2	2	2	2	-	-	2	2	-	1	2	2	2				
C301	3	3	2	2	2	2	-	-	2	2	-	1	2	2	2				

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to							
		C302.1: Discuss in depth knowledge of MOS technology							
		C302.2: Design Combinational Logic Circuits and and Design Principles							
EC3552	VLSI and Chip Design	C302.3: Design Sequential Logic Circuits and Clocking Strategies							
EC3332		C302.4: Explain Memory architecture and building blocks							
		C302.5: To Implement the Function FPGA							
		C302.6: Discuss the ASIC Design Process and Testing.							

	PROGRAM OUTCOMES														PSO			
	P01	PO2	P03	P04	P05	P06	P07	P08	P09	PO1 0	P01 1	P01 2	PSO 1	PSO 2	PSO 3			
C302.1	2	2	2	-	-	-	-	-	-	-	-	-	3	3	3			
C302.2	2	2	2	2	-	-	-	-	-	-	-	1	3	3	3			
C302.3	2	2	2	2	2	2	-	-	-	-	-	1	3	2	3			
C302.4	2	2	2	2	-	-	-	-	-	-	-	1	3	3	2			
C302.5	-	-	-	-	-	2	-	-	-	-	1	-	3	2	2			
C302.6	-	-	-	-	-	2	-	-	-	-	1	-	3	2	2			
C302	2	2	2	2	2	2	-	-	-	-	1	1	3	3	3			

^{*3-}High correlation; 2- Medium correlation; 1-Low correlation; '-' No correlation



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021

B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to									
		C303.1: Explain the characteristics of transmission lines and its losses									
		C303.2: Calculate the standing wave ratio and input impedance in high frequency transmission lines.									
EC3551	TRANSMISSION LINES AND RF	C303.3:Analyze high frequency line, power and impedance measurements									
	SYSTEMS	C303.4: Analyze impedance matching by stubs using Smith Charts									
		C303.5: Analyze the characteristics of TE and TM waves									
		C303.6:Design a RF transceiver system for wireless communication									

60				Pl	ROGRA	M OU	TCOM	ES						PSO	
СО	P01	P02	P03	P04	P05	P06	P07	P08	P09	P01 0	P01 1	P01 2	PSO 1	PSO 2	PSO 3
C303.1	3	3	3	3	2	1	-	-	-	1	-	1	2	1	1
C303.2	3	3	3	3	2	1	=	=	=	1	=	1	2	1	1
C303.3	3	3	3	3	2	1	=	=	=	1	=	1	2	1	1
C303.4	3	3	3	3	2	1	=	=	=	1	=	1	2	1	1
C303.5	3	3	3	3	2	1	=	=	=	1	=	1	2	1	1
C303.6	3	3	3	3	2	1	-	=	-	1	=	1	2	1	1
C303	3	3	3	3	2	1	-	-	-	1	-	1	2	1	1

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to							
		C304.1: Analyze the different types of satellites							
		C304.2: Find the orbital determination and launching methods							
CEC352	EC352 COMMUNICATION	C304.3:. Analyze the satellite subsystems							
CEC332		C304.4: Evaluate the satellite link power budget calculation							
		C304.5: Identify access technology for satellite							
		C304.6: Design various satellite applications							

		PROGRAM OUTCOMES													
	P01	P02	PO3	P04	PO5	P06	P07	P08	P09	PO10	P0 11	PO1 2	PSO 1	PSO 2	PSO 3
C304.1	3	3	3	3	2	2	1	1	-	2	-	1	3	3	3
C304.2	3	3	3	3	2	2	-	-	-	2	-	1	3	3	3
C304.3	3	3	2	2	2	2	-	-	-	2	-	1	3	2	2
C304.4	3	3	3	3	2	2	-	-	-	2	-	1	3	3	3
C304.5	3	3	3	3	2	2	-	-	-	2	-	1	3	3	3
C304.6	3	3	3	3	2	2	-	-	-	2	-	1	3	3	3
C304	3	3	3	3	2	2	1	1	-	2	-	1	3	3	3

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C305.1: Discuss Basic Elements In Optical Fibers, Different Modes And Configurations.
		C305.2: Analyze The Transmission Characteristics Associated With Dispersion And PolarizationTechniques
CEC345	OPTICAL COMMUNICATION &	C305.3: Design Optical Sources And Detectors With Their Use In Optical Communication System.
	NETWORKS	C305.4: Construct Fiber Optic Receiver Systems, Measurements And Techniques.
		C305.5: Examine the losses and propagation characteristics of an optical signal.
		C305.6: Design Optical Communication Systems And Its Networks.

				Pl	ROGRA	M OU	TCO	MES						PSO	
	P01	P02	РО3	P04	P05	P0 6	P0 7	P08	P09	P01 0	P01 1	P01 2	PSO 1	PSO 2	PSO 3
C305.1	3	3	2	3	2	1	-	-	-	-	-	1	2	1	2
C305.2	3	3	2	3	2	2	-	-	-	-	-	2	2	2	2
C305.3	3	3	3	3	2	1	-	-	-	-	-	1	2	2	2
C305.4	3	3	2	3	2	1	-	-	-	-	-	1	2	1	2
C305.5	3	3	3	3	2	1	-	-	-	-	-	1	2	2	2
C305.6	3	3	2	3	2	1	-	-	-	-	-	1	2	1	2
C305	3	3	2	3	2	1	-	-	-	-	-	1	2	1	2



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C307.1: Explain the concept of Women's Studies.
	INTRODUCTION TO WOMEN	C307.2: Demonstrate to imbibe feminist thoughts, Ideals, Movements and Theories.
MX3081		C307.3: Discuss the women's studies and institutionalization
MASOSI	AND GENDER STUDIES	C307.4: Analyze the life style and challenges of women.
		C307.5: To create awareness on modernization and impact of technologyon women.
		C307.6: Discuss Sensitize Women towards the current social issues confronting them.

		PROGRAM OUTCOMES													
	P01	P02	P03	P0 4	P05	P06	P07	P08	P09	P01 0	P01 1	P01 2	PSO 1	PSO 2	PSO 3
C307.1	3	3	3	3	2	2	2	-	-	-	-	-	3	3	3
C307.2	3	2	3	3	2	2	2	-	-	-	-	-	3	2	3
C307.3	3	3	3	3	2	2	2	-	-	-	-	-	3	3	3
C307.4	3	2	3	3	2	2	2	-	-	-	-	-	3	3	2
C307.5	3	3	2	3	2	2	2	-	-	-	-	-	3	3	3
C307.6	3	2	3	3	2	2	2	-	-	-	-	-	3	3	3
C307	3	2	3	3	2	2	2	-	-	-	-	-	3	3	3

^{*3-}High correlation; 2- Medium correlation; 1-Low correlation; '-' No correlation



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to										
		C306.1: Design and implement the various protocols in wireless networks										
	CEC364 WIRELESS BROAD BANI	C306.2: Analyze the architecture of 3G network standards										
CEC364		C306.2 : Analyze the difference of LTE-A network design from 4G standard. C306.4:Design the interconnecting network functionalities by layer level functions										
CECSUI	NETWORKS											
		C306.5: Explore the current generation (5G) network architecture.										
		C306.6: Explain emerging techniques in 5G network.										

				I	PROGR	RAM O	UTCON	1ES						PSO	
	P01	P02	P03	P04	P05	P06	P07	P08	P09	PO1 0	P01 1	P01 2	PSO 1	PSO 2	PSO 3
C306.1	3	3	2	2	2	1	-	-	-	-	2	2	3	1	1
C306.2	3	3	2	2	2	1	-	-	-	-	-	2	3	2	2
C306.3	3	3	2	2	2	1	-	-	-	-	-	3	3	2	2
C306.4	3	3	2	2	2	2	-	-	-	-	-	2	2	1	2
C306.5	2	3	2	2	3	2	-	-	-	-	-	2	2	2	1
C306.6	3	3	2	3	2	2	-	-	-	-	-	2	3	2	2
C306	3	3	2	2	2	2	-	-	-	-	2	2	3	2	2

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C307.1: Exhibit the fundamental concepts of gender studies.
		C307.2: Illustrate about the types of feminist theory.
MX3081	Gender Studies	C307.3: Analyze the history of women's movements.
		C307.4: Distinguish between the gender based on linguistic forms.
		C307.5: Explain the role of media in gender equality.
		C307.6: Discuss the representation of women in media.

					PR	OGRA	M OUT	COMES					PSO				
	P01	P01 P02 P03 P04 P05 P06 P07 P08 P09 P010 P011 P012										P012	PSO 1	PSO 2	PSO 3		
C307.1	-	-	-	-	-	1	1	1	3	2	-	2	-	ı	-		
C307.2	-	-	-	-	-	1	1	1	3	2	-	2	-	-	-		
C307.3	-	-	-	-	-	1	1	1	3	2	-	2	-	-	-		
C307.4	-	-	-	-	-	1	1	1	3	2	-	2	-	-	-		
C307.5	-	-	-	-	-	1	1	1	3	2	-	2	-	-	-		
C307.6	-	-	-	-	-	1	1	1	3	2	-	2	-	-	-		
C307	-	-	-	-	-	1	1	1	3	2	-	2	-	-	-		

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C308.1: Assemble HDL code for basic as well as advanced digital integrated circuit
		C308.2: Execute the logic modules into FPGA Boards
EC3561	VLSI LABORATORY	C308.3: Synthesize Place and Route the digital ICs
EC3501		C308.4: Design, Simulate and Extract the layouts of Digital & Analog IC Blocks using EDA tools.
		C308.5: Design ,Simulate basic Common Source, Common Gate and Common Drain Amplifiers
		C308.6: Test and Verification of IC design

					PROC	GRAM	OUTC	OMES						PSO	
	P01	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO1									PSO 1	PSO 2	PSO 3		
C308.1	2	2	1	1	1	-	-	-	2	2	-	-	2	3	2
C308.2	2	2	1	1	1	-	-	-	2	2	-	-	2	1	2
C308.3	2	2	2	2	1	-	-	-	2	2	1	1	2	2	2
C308.4	2	2	2	2	1	-	-	-	2	2	1	1	2	2	2
C308.5	2	2	2	2	1	-	-	-	2	2	1	1	2	2	2
C308.6	2	2	2	2	1	-	-	-	2	2	1	1	2	2	2
C308	2	2	2	2	1	-	-	-	2	2	1	1	2	2	2

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C309.1: Explain the architecture and features of 8051.
		C309.2: Develop a model of an embedded system.
	EMBEDDED SYSTEM AND IOT	C309.3: List the concepts of real time operating
ET 2401		systems.
ET 3491		C309.4: Learn the architecture and protocols of IoT.
		C309.5: Design an IoT based system for any
		application.
		C309.6: Learn the real – time processing in an
		Embedded system.

					PROC	GRAM	OUTC	OMES						PSO	
	P01	'OT POZ POX PO4 PO5 PO6 PO7 PO8 PO9									PSO 1	PSO 2	PSO 3		
C309.1	3	3	3	2	2	-	-	-	2	2	1	1	3	2	1
C309.2	3	3	3	2	2	-	-	-	2	2	1	1	3	2	1
C309.3	3	3	3	2	2	-	-	-	2	2	1	1	2	2	1
C309.4	3	3	3	2	2	-	-	-	2	2	1	1	3	2	1
C309.5	3	3	3	3	2	-	-	-	2	2	1	1	3	2	1
C309.6	3	3	3	2	2	-	-	-	2	2	1	1	3	2	1
C309	3	3	3	2	2	-	-	-	2	2	1	1	3	2	1

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to									
		C310.1: Apply appropriate search algorithms for problem solving									
		C310.2: Illustrate reasoning under uncertainty									
GG 404	ARTIFICIAL	C310.3: Design supervised learning models									
CS3491	INTELLIGENCE AND MACHINE LEARNING	C310.4: Develop unsupervised learning models									
		C310.5: Describe deep learning neural network models									
		C310.6: Design ensembling models									

				PSO											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P01 0	P01 1	P01 2	PSO 1	PSO 2	PSO 3
C310.1	3	2	2	2	ı	ı	-	-	1	3	3	3	1	2	2
C310.2	1	1	1	1	1	-	-	-	1	2	1	3	2	3	2
C310.3	2	2	2	1	1	-	-	-	2	1	1	3	1	1	1
C310.4	3	3	3	1	-	-	-	-	2	1	2	1	2	2	2
C310.5	3	2	1	1	2	-	-	-	3	1	2	3	2	1	2
C310.6	2	1	1	1	1	-	-	-	2	1	2	1	2	2	2
C310	2.3	1.8	1.7	1.2	1.3	=	=	-	1.8	1.5	1.8	2.3	1.7	1.8	1.5

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C311.1: Attain knowledge about various renewable energy technologies.
		C311.2: Design of Photovoltaic system.
OEE351	RENEWABLE ENERGY SYSTEM	C311.3: Explore the concept of various wind energy system.
		C311.4: Gain knowledge about various possible hybrid energy systems.
		C311.5: Attain knowledge about various application of renewable energy technologies.
		C311.6: Learn about the solar energy system.

					PR	OGRA	M OUT	COME	s				PSO			
	PO1	PO2	PO3	PO4	PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	
C311.1	3	2	2	1	1	-	1	-	-	1	-	1	3	3	-	
C311.2	3	2	2	1	1	-	1	-	-	1	-	1	3	3	-	
C311.3	3	2	2	1	1	-	1	-	-	1	-	1	3	3	-	
C311.4	3	2	2	1	1	-	1	-	-	1	-	1	3	3	-	
C311.5	3	2	2	1	1	-	1	-	-	1	-	1	3	3	-	
C311.6	3	2	2	1	1	-	1	-	-	1	-	1	3	3	-	
C311	3	2	2	1	1	-	1	-	-	1	-	1	3	3	-	

^{*3-}High correlation; 2- Medium correlation; 1-Low correlation; '-' No correlation



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to								
		C312.1: Design solutions for WSNs applications								
	WIRELESS	C312.2. Develop efficient MAC and Routing Protocols								
CEC365	SENSOR NETWORK	C312.3: Design solutions for 6LOWPAN applications								
	DESIGN	C312.4: Develop efficient layered protocols in 6LOWPAN								
		C312.5: Use Tiny OS in WSNs and 6LOWPAN applications								
		C312.6: Use Contiki OS in WSNs and 6LOWPAN applications								

	PROGRAM OUTCOMES													PSO			
	PO1	PO2	PO3	PO4	PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3		
C312.1	3	3	3	3	2	2	-	_	-	-	2	2	3	1	1		
C312.2	3	3	3	3	2	2	-	_	-	-	-	2	3	2	2		
C312.3	3	3	3	3	2	2	-	_	-	-	-	3	3	2	2		
C312.4	3	3	3	3	2	2	-	_	-	-	-	2	2	1	2		
C312.5	3	3	3	3	2	2	-	_	-	-	-	2	2	2	1		
C312.6	3	3	3	3	2	2	-	-	-	-	-	2	2	2	2		
C312	3	3	3	3	2	2	_	-	-	-	2	2.2	2.6	1.6	1.6		

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C313.1: Design the Architecture of BAN health care Monitoring system.
		C313.2 . Design a BAN for appropriate application in medicine
CBM341	BODY AREA NETWORKS	C313.3: Describe the efficiency communication and the security parameters
		C313.4: Apply the need for medical device regulation
		C313.5: Discuss the concepts of BAN for medical applications
		C313.6: Learn about the hardware for BAN

				PSO											
	PO1	PO2	PO3	PO4	PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C313.1	3	2	2	1	1	1	1	-	_	-	-	1	3	3	3
C313.2	3	2	2	1	1	1	1	-	-	-	-	1	3	3	3
C313.3	3	2	2	1	1	1	1	-	-	-	-	1	3	3	3
C313.4	3	2	2	1	1	1	1	-	_	-	-	1	3	3	3
C313.5	3	2	2	1	1	1	1	-	_	-	_	1	3	3	3
C313.6	3	2	2	1	1	1	1	-	_	-	-	1	3	3	3
C313	3	2	2	1	1	1	1	-	_	-	_	1	3	3	3

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION 2021 B.E. ECE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to								
		C314.1: To enjoy life happily with fun filled new style activities that help to maintain health also								
		C314.2: To adapt a few lifestyle changes that will prevent many health disorders								
N/V/2005	WELL-BEING WITH TRADITIONAL PRACTICES- YOGA,AYURVEDA AND SIDDHA	C314.3: To be cool and handbill every emotion very smoothly in every walk of life								
MX3085		C314.4: To learn to eat cost effective but healthy foods that are rich in essential nutrients								
		C314.5: To explore the essence and significance of yoga								
		C314.6: To develop immunity naturally that will improve resistance against many health disorders								

	PROGRAM OUTCOMES													PSO				
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PS 0 2	PSO 3			
C314.1	-	-	3	-	-	3	2	2	1	1	-	1	-	-	3			
C314.2	-	-	3	-	-	2	2	1	1	1	_	1	-	-	3			
C314.3	-	-	3	-	-	2	2	2	1	1	_	1	-	-	3			
C314.4	-	-	3	-	-	2	2	2	1	1	_	1	-	-	3			
C314.5	-	-	3	-	-	3	2	2	1	1	_	1	-	-	3			
C314.6	-	-	3	-	-	3	2	2	1	1	-	1	-	-	3			
C314	-	-	3	-	-	2	2	2	1	1	-	1	-	-	3			

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