

**TAGORE INSTITUTE OF ENGINEERING AND TECHNOLOGY,  
DEVIYAKURICHI-636112**

**Anna University Chennai – R2017**

**Course Outcomes (COs)**

**Course Name with subject code: Linear Algebra and Partial Differential Equations  
/MA8352**

Course Code	Course Outcomes
	<i>Upon completion of the course, the students will be able to:</i>
<b>C201.1</b>	Explain the fundamental concepts of advanced algebra and their role in modern mathematics and applied contexts.
<b>C201.2</b>	Demonstrate accurate and efficient use of advanced algebraic techniques.
<b>C201.3</b>	Demonstrate their mastery by solving non - trivial problems related to the concepts and by proving simple theorems about the statements proven by the text.
<b>C201.4</b>	Able to solve various types of partial differential equations.
<b>C201.5</b>	Able to solve engineering problems using Fourier series.
<b>C201.6</b>	Develop transform and differential equations and its applications.

**CO – PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>C201.1</b>	2	2	-	-	2	2	-	-	-	-	1	1	-	2
<b>C201.2</b>	3	3	1	1	2	2	1	3	1	1	-	2	1	2
<b>C201.3</b>	3	2	2	2	2	2	-	-	-	1	-	1	1	3
<b>C201.4</b>	3	3	2	2	2	2	-	-	-	-	-	2	1	2
<b>C201.5</b>	3	2	1	1	2	2	-	-	-	1	1	3	1	1
<b>C201.6</b>	3	3	2	2	3	3	1	-	1	1	-	2	2	2
<b>C201</b>	3	3	2	2	2	2	-	1	-	1	-	2	1	2



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**Course Outcomes (COs)**

**Course Name with subject code: Fundamentals of Data Structures In C / EC8393**

Course Code	Course Outcomes
	<i>Upon completion of the course, the students will be able to:</i>
<b>C202.1</b>	Implement Linear and Non linear data structure operations using C
<b>C202.2</b>	Suggest appropriate linear/Non linear data structure for any given data set
<b>C202.3</b>	Apply hashing concepts for a given problem
<b>C202.4</b>	Modify or suggest new data structure for an application
<b>C202.5</b>	Appropriately choose the sorting algorithm for an application
<b>C202.6</b>	Apply different techniques in given applications of trees.

**CO – PO Map**

COs	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02
<b>C202.1</b>	2	3	3	2	2	-	-	2	-	-	-	3	3	3
<b>C202.2</b>	3	2	3	1	2	-	-	3	-	-	-	-	3	3
<b>C202.3</b>	2	2	3	2	3	1	-	2	-	-	-	3	3	1
<b>C202.4</b>	3	3	2	2	-	1	1	-	-	2	-	3	-	3
<b>C202.5</b>	3	3	2	2	3	1	-	3	-	2	-	3	-	-
<b>C202.6</b>	3	2	3	1	-	-	1	-	-	-	-	3	-	-
<b>C202</b>	3	3	3	2	2	1	-	2	-	1	-	3	2	2



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**Course Outcomes (COs)**

**Subject code: EC8351**

**Subject Name: Electronic Circuits I**

Course Code	Course Outcomes
	<i>Upon completion of the course, the students will be able to:</i>
<b>C203.1</b>	Acquire knowledge of Working principles BJT and FET
<b>C203.2</b>	Acquire knowledge of characteristics and applications of BJT and FET
<b>C203.3</b>	Acquire knowledge of Frequency response characteristics of BJT and FET amplifiers
<b>C203.4</b>	Analyze the performance of small signal BJT and FET amplifiers
<b>C203.5</b>	Analyze the performance of single stage and multi stage amplifiers
<b>C203.6</b>	Apply the knowledge gained in the design of Electronic circuits

**CO – PO Map**

COs	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02
<b>C203.1</b>	1	2	2	2	2	2	2	3	3	2	1	1	1	-
<b>C203.2</b>	1	2	2	2	2	2	2	3	3	2	1	1	1	-
<b>C203.3</b>	2	1	2	2	2	2	2	2	3	2	1	1	1	-
<b>C203.4</b>	2	1	2	2	2	2	2	1	2	2	1	1	1	-
<b>C203.5</b>	2	2	2	2	2	2	2	2	3	2	2	2	-	1
<b>C203.6</b>	1	1	1	1	1	1	1	2	3	1	1	2	-	-
<b>C203</b>	2	2	2	2	2	2	2	2	3	2	1	2	1	-



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**Course Outcomes (COs)**

**Subject code: EC8352**

**Subject Name: Signals & Systems**

Course Code	Course Outcomes
	<i>Upon completion of the course, the students will be able to:</i>
<b>C204.1</b>	To be able to determine if a given system is linear/causal/stable
<b>C204.2</b>	Capable of determining the frequency components present in a deterministic signal
<b>C204.3</b>	Capable of characterizing LTI systems in the time domain
<b>C204.4</b>	Capable of characterizing LTI systems in the frequency domain
<b>C204.5</b>	To be able to compute the output of an LTI system in the time domains
<b>C204.6</b>	To be able to compute the output of an LTI system in the frequency domains

**CO – PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02
<b>C204.1</b>	3	3	3	3	2	2	2	1	-	2	2	-	2	2
<b>C204.2</b>	3	3	3	3	3	1	-	2	-	1	2	1	3	2
<b>C204.3</b>	3	3	3	3	2	1	2	2	1	2	-	3	2	3
<b>C204.4</b>	3	3	3	3	2	2	-	1	-	2	-	-	2	2
<b>C204.5</b>	2	3	3	3	2	2	-	2	-	2	-	3	2	1
<b>C204.6</b>	3	3	3	3	2	2	-	2	-	1	-	-	3	2
<b>C204</b>	2	2	2	1	1	1	-	-	-	-	1	2	1	-



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**Course Outcomes (COs)**

**Course Name with subject code: Digital Electronics/EC8392**

Course Code	Course Outcomes
	<i>Upon completion of the course, the students will be able to:</i>
<b>C205.1</b>	Use digital electronics in the present contemporary world
<b>C205.2</b>	Design various combinational digital circuits using logic gates
<b>C205.3</b>	Do the analysis procedures for synchronous and asynchronous sequential circuits
<b>C205.4</b>	Do the design procedures for synchronous and asynchronous sequential circuits
<b>C205.5</b>	Use the semiconductor memories and related technology
<b>C205.6</b>	Use electronic circuits involved in the design of logic gates

**CO – PO Map**

COs	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02
<b>C205.1</b>	3	3	3	-	2	2	3	2	-	1	-	2	1	1
<b>C205.2</b>	2	2	2	-	3	1	2	1	-	1	-	3	-	2
<b>C205.3</b>	3	3	3	-	3	1	3	2	-	-	-	3	1	2
<b>C205.4</b>	3	2	2	-	2	2	3	2	-	-	-	3	-	1
<b>C205.5</b>	2	3	2	-	3	1	1	1	-	1	-	2	1	2
<b>C205.6</b>	2	2	2	-	3	2	3	2	-	1	-	2	-	1
<b>C205</b>	3	3	3	-	3	2	2	2	-	1	-	3	2	2



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**Course Outcomes (COs)**

**Course Name with subject code: Control Systems Engineering /EC8391**

Course Code	Course Outcomes
	<i>Upon completion of the course, the students will be able to:</i>
<b>C206.1</b>	Identify the various control system components and their representations.
<b>C206.2</b>	Analyze the various time domain parameters.
<b>C206.3</b>	Analysis the various frequency response plots and its system.
<b>C206.4</b>	Apply the concepts of various system stability criterions.
<b>C206.5</b>	Design various transfer functions of digital control system using state variable models.
<b>C206.6</b>	Explain the representation of state variable for CT and DT system.

**CO – PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>C206.1</b>	2	1	1	-	2	-	-	1	3	2	-	3	3	1
<b>C206.2</b>	3	2	2	2	2	1	-	3	3	1	-	2	2	1
<b>C206.3</b>	2	1	1	1	3	1	-	3	3	-	-	3	2	2
<b>C206.4</b>	3	1	2	2	2	1	1	1	2	2	-	3	-	2
<b>C206.5</b>	3	2	1	1	3	1	-	1	1	1	-	2	1	2
<b>C206.6</b>	2	1	1	2	3	-	1	-	3	-	-	2	-	1
<b>C206</b>	3	1	1	2	3	1	-	2	3	1	-	3	1	2



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**Course Outcomes (COs)**

**Course Name with subject code: Analog and Digital Circuits Laboratory /EC8361**

Course Code	Course Outcomes
	<i>On completion of this laboratory course, the student should be able to</i>
<b>C208.1</b>	Design and Test BJT/JFET amplifiers, rectifiers, filters and regulated power supplies.
<b>C208.2</b>	Differentiate cascode and cascade amplifiers.
<b>C208.3</b>	Analyze the limitation in bandwidth of single stage and multi stage amplifier
<b>C208.4</b>	Measure CMRR in differential amplifier
<b>C208.5</b>	Simulate and analyze amplifier circuits using PSpice.
<b>C208.6</b>	Design and Test the digital logic circuits.

**CO – PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>C208.1</b>	2	1	1	-	2	-	-	1	3	2	-	3	3	1
<b>C208.2</b>	3	2	2	-	2	-	-	3	3	1	-	2	2	1
<b>C208.3</b>	2	1	1	1	3	1	-	3	3	-	-	3	2	2
<b>C208.4</b>	3	1	2	-	2	-	1	1	2	2	-	3	-	2
<b>C208.5</b>	3	2	1	1	3	1	-	1	1	1	-	2	1	2
<b>C208.6</b>	2	1	1	-	3	-	1	-	3	-	-	2	-	1
<b>C208</b>	3	1	1	-	3	-	-	2	3	1	-	3	1	2



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**Course Outcomes (COs)**

**Course Name with subject code: Fundamentals of Data Structures in C Laboratory  
/EC8381**

Course Code	Course Outcomes
	<i>On completion of this laboratory course, the student should be able to</i>
<b>C207.1</b>	Apply C programming language.
<b>C207.2</b>	Apply and Understand the different C programming concepts.
<b>C207.3</b>	Design different data structures methods
<b>C207.4</b>	Apply binary tree searching concept in data structure.
<b>C207.5</b>	Develop stack application and its types.
<b>C207.6</b>	Develop sorting, searching technique and its types.

**CO – PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02
<b>C207.1</b>	2	3	3	-	2	-	-	-	-	-	-	3	3	1
<b>C207.2</b>	3	2	3	-	3	2	-	3	-	-	-	-	3	-
<b>C207.3</b>	2	3	3	-	3	1	1	1	-	1	-	3	3	1
<b>C207.4</b>	3	2	2	-	3	2	1	-	-	2	-	3	2	1
<b>C207.5</b>	3	3	2	-	3	1	1	3	-	2	-	3	2	-
<b>C207.6</b>	3	2	3	-	2	-	1	-	-	-	-	3	2	-
<b>C207</b>	3	3	3	-	3	2	1	1	-	1	-	3	3	1



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**Course Outcomes (COs)**

**Course Name with subject code: Interpersonal Skills/Listening & Speaking /EC8361**

Course Code	Course Outcomes
	<i>At the end of the course Learners will be able to</i>
<b>C209.1</b>	Listen and respond appropriately.
<b>C209.2</b>	Participate in group discussions
<b>C209.3</b>	Make effective presentations
<b>C209.4</b>	Participate confidently and appropriately in conversations both formal and informal
<b>C209.5</b>	To engage in specific academic speaking activities.
<b>C209.6</b>	Understands the academic studies with primary emphasis on speaking and listening skills.

**CO – PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>C209.1</b>	2	1	1	-	2	-	-	1	3	2	-	3	3	1
<b>C209.2</b>	3	2	2	-	2	-	2	3	3	1	1	2	2	1
<b>C209.3</b>	2	1	1	1	3	1	-	3	3	-	2	3	2	2
<b>C209.4</b>	3	1	2	2	2	-	1	1	2	2	2	3	2	2
<b>C209.5</b>	3	2	1	1	3	1	-	1	1	1	1	2	1	2
<b>C209.6</b>	2	1	1	1	3	-	1	-	3	-	-	2	2	1
<b>C209</b>	3	1	1	1	3	-	1	2	3	1	1	3	2	2



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**Course Outcomes (COs)**

**Course Name with subject code: Probability & Random Processes/MA8451**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C210.1</b>	Understand the fundamental knowledge of the concepts of probability and have knowledge of standard distributions which can describe real life phenomenon.
<b>C210.2</b>	Understand the basic concepts of one and two dimensional random variables and apply in engineering applications.
<b>C210.3</b>	Apply the concept random processes in engineering disciplines.
<b>C210.4</b>	Understand and apply the concept of correlation and spectral densities.
<b>C210.5</b>	Build more knowledge in basic concept of Distributions.
<b>C210.6</b>	Make use of Spectral Density in modern scientific computing.

**CO - PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>C210.1</b>	2	1	3	1	2	-	-	-	-	-	-	3	3	1
<b>C210.2</b>	3	2	3	3	-	-	-	3	-	-	-	-	3	-
<b>C210.3</b>	2	-	3	3	3	1	1	1	-	-	-	3	2	1
<b>C210.4</b>	3	-	2	-	-	-	-	-	-	2	-	3	2	1
<b>C210.5</b>	3	3	2	2	-	1	-	3	-	2	-	3	-	-
<b>C210.6</b>	3	-	3	-	-	-	1	-	-	-	-	3	-	-
<b>C210</b>	3	1	3	2	1	-	-	1	-	1	-	3	2	1



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**Course Outcomes (COs)**

**Course Name with subject code: Electronic Circuits -II/ EC8452**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C211.1</b>	Analyze different types of amplifier and design feedback amplifier
<b>C211.2</b>	Design BJT amplifier
<b>C211.3</b>	Design and analyze LC and RC oscillators
<b>C211.4</b>	Analyze transistorized amplifier and design tuned amplifiers
<b>C211.5</b>	Design wave shaping circuits, multivibrators.
<b>C211.6</b>	Design power amplifier and DC convertors.

**CO - PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>C211.1</b>	3	3	3	3	2	-	-	2	-	2	2	-	3	2
<b>C211.2</b>	3	2	3	2	2	2	-	2	2	1	1	3	2	2
<b>C211.3</b>	2	3	2	2	3	1	2	1	-	3	-	-	2	3
<b>C211.4</b>	3	2	3	1	2	-	-	3	2	2	-	-	2	2
<b>C211.5</b>	3	1	2	2	3	-	2	2	-	2	-	3	1	1
<b>C211.6</b>	2	3	-	2	2	-	-	2	-	2	-	-	2	2
<b>C211</b>	3	3	3	2	2	2	2	2	2	2	2	3	2	2



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**Course Outcomes (COs)**

**Course Name with subject code: Communication Theory/EC8491**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C212.1</b>	Design AM communication systems
<b>C212.2</b>	Design Angle modulated communication systems
<b>C212.3</b>	Apply the concepts of Random Process to the design of Communication systems
<b>C212.4</b>	Analyze the noise performance of AM and FM systems
<b>C212.5</b>	Gain knowledge in sampling and quantization
<b>C212.6</b>	Design and analyze the concepts of error coding

**CO - PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02
<b>C212.1</b>	2	3	3	1	2	3	1	1	-	1	-	3	3	3
<b>C212.2</b>	3	2	3	3	-	2	1	3	-	1	-	-	3	2
<b>C212.3</b>	2	3	2	3	3	3	3	2	-	1	-	3	3	3
<b>C212.4</b>	3	2	2	-	-	2	1	-	-	3	-	3	2	3
<b>C212.5</b>	3	3	2	2	-	3	1	3	-	2	-	3	2	2
<b>C212.6</b>	3	2	2	-	-	2	2	-	-	1	-	3	2	2
<b>C212</b>	3	3	2	2	1	3	2	2	-	2	-	3	3	3



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Course Outcomes (COs)

Course Name with subject code: Electromagnetic Fields/EC8451

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
C213.1	Display an understanding of fundamental electromagnetic laws and concepts
C213.2	Write Maxwell's equations in integral, differential and phasor forms and explain their physical meaning
C213.3	Explain electromagnetic wave propagation in lossy and in lossless media
C213.4	Solve simple problems requiring estimation of electric and magnetic field quantities based on these concepts and laws
C213.5	Understand the concepts of wave propagation
C213.6	Analyze the concepts of EM waves for transmission lines

**CO - PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C213.1	3	3	2	-	1	-	-	2	-	1	-	1	2	2
C213.2	3	2	1	-	-	-	-	1	-	2	-	1	1	2
C213.3	2	3	2	-	1	-	-	1	-	1	-	1	1	1
C213.4	2	3	1	-	1	-	-	-	-	1	-	1	2	1
C213.5	2	2	2	-	1	-	-	-	-	-	-	-	1	1
C213.6	3	2	1	-	1	-	-	1	-	-	-	-	2	2
C213	3	3	2	-	1	-	-	1	-	1	-	1	2	2



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**Course Outcomes (COs)**

**Course Name with subject code: Linear Integrated Circuits/EC8453**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C214.1</b>	Design linear and non linear applications of OP – AMPS
<b>C214.2</b>	Design applications using analog multiplier and PLL
<b>C214.3</b>	Design ADC and DAC using OP – AMPS
<b>C214.4</b>	Generate waveforms using OP – AMP Circuits
<b>C214.5</b>	Analyze special function ICs
<b>C214.6</b>	Design and Analyze the concepts of Waveform Generators

**CO – PO Map**

COs	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02
<b>C214.1</b>	2	3	3	3	2	2	1	2	-	2	-	-	3	2
<b>C214.2</b>	2	2	3	3	3	-	1	1	-	1	-	-	2	2
<b>C214.3</b>	3	2	2	2	2	1	1	2	-	1	-	-	3	1
<b>C214.4</b>	3	3	3	2	3	1	-	1	-	-	-	-	2	1
<b>C214.5</b>	3	2	2	3	3	1	-	2	-	1	-	-	2	1
<b>C214.6</b>	2	3	2	2	2	-	1	1	-	-	-	-	3	2
<b>C214</b>	3	3	3	3	3	1	1	2	-	1	-	-	3	2



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**Course Outcomes (COs)**

**Course Name with subject code: Environmental Science and Engineering /GE8291**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C215.1</b>	Explain hazards, structure and functions of the ecosystem and its types.
<b>C215.2</b>	Explain various techniques for conservation and values of biodiversity and its threats.
<b>C215.3</b>	Compare effects and mitigation techniques for different environmental pollutions.
<b>C215.4</b>	Explain issues of environment and sustainable development in his personal.
<b>C215.5</b>	Explain various environmental social issues, awareness among the people and its remedies.
<b>C215.6</b>	Explain relationship between the human population and environment.

**CO - PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02
<b>C215.1</b>	1	-	-	-	-	2	3	3	-	2	-	1	1	1
<b>C215.2</b>	-	1	1	-	-	3	3	2	-	2	-	-	-	2
<b>C215.3</b>	1	1	1	-	-	3	2	3	-	2	-	1	1	2
<b>C215.4</b>	-	1	-	-	-	3	3	2	-	2	-	-	-	1
<b>C215.5</b>	1	-	1	-	-	2	3	2	-	2	-	1	1	2
<b>C215.6</b>	-	-	1	-	-	2	2	3	-	1	-	-	-	1
<b>C215</b>	1	1	1	-	-	3	3	3	-	2	-	1	1	2



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**Course Outcomes (COs)**

**Course Name with subject code: Circuits Design and Simulation Laboratory /EC8461**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C216.1</b>	Analyze various types of feedback amplifiers
<b>C216.2</b>	Design oscillators, tuned amplifiers, wave-shaping circuits and multivibrators
<b>C216.3</b>	Design and Analyze the concepts of Power supplies with filters
<b>C216.4</b>	Analyze the concepts of Power regulators
<b>C216.5</b>	Designing feedback amplifiers, oscillators, tuned amplifiers, wave-shaping circuits.
<b>C216.6</b>	Simulating feedback amplifiers, oscillators, tuned amplifiers, wave-shaping circuits and multivibrators using SPICE Tool.

**CO - PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>C216.1</b>	3	3	3	3	1	2	2	1	3	2	1	3	2	1
<b>C216.2</b>	3	3	2	3	1	1	1	1	3	1	1	2	1	1
<b>C216.3</b>	2	2	2	2	1	1	1	-	2	1	1	2	1	1
<b>C216.4</b>	2	3	3	2	2	2	2	1	2	1	-	3	2	2
<b>C216.5</b>	3	2	3	2	2	2	2	-	3	-	-	3	2	2
<b>C216.6</b>	2	2	2	3	2	1	1	-	2	-	1	2	1	2
<b>C216</b>	3	3	3	3	2	2	2	1	3	1	1	3	2	2



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**Course Outcomes (COs)**

**Course Name with subject code: Linear Integrated Circuits Laboratory/EC8462**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C217.1</b>	Design amplifiers, oscillators, D-A converters using operational amplifiers.
<b>C217.2</b>	Design filters using op-amp and performs an experiment on frequency response.
<b>C217.3</b>	Analyze the working of PLL and describe its application as a frequency multiplier.
<b>C217.4</b>	Design DC power supply using ICs.
<b>C217.5</b>	Analyze the performance of filters, multivibrators, A/D converter and analog multiplier using SPICE.
<b>C217.6</b>	Simulating feedback amplifiers, oscillators, tuned amplifiers, wave-shaping circuits and multivibrators using SPICE Tool by using op-amp

**CO - PO Map**

COs	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02
<b>C217.1</b>	3	1	3	2	2	2	3	1	3	1	1	2	3	3
<b>C217.2</b>	2	1	2	3	3	1	2	1	2	1	-	3	2	2
<b>C217.3</b>	3	2	2	3	3	1	3	-	3	-	1	3	1	2
<b>C217.4</b>	3	2	-	3	2	2	3	1	3	-	1	3	1	2
<b>C217.5</b>	2	2	-	2	3	1	1	1	2	1	1	2	1	3
<b>C217.6</b>	2	1	2	2	3	2	3	-	2	1	-	2	1	3
<b>C217</b>	3	2	2	3	3	2	3	1	3	1	1	3	2	3



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**Course Outcomes (COs)**

**Course Name with subject code: Digital Communication/EC8501**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C301.1</b>	Design PCM systems
<b>C301.2</b>	Design and implement base band transmission schemes
<b>C301.3</b>	Design and implement band pass signaling schemes
<b>C301.4</b>	Analyze the spectral characteristics of band pass signaling schemes and their noise performance
<b>C301.5</b>	Outline the effect of ISI in communication system.
<b>C301.6</b>	Design and implement error control coding schemes

**CO – PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>C301.1</b>	3	-	-	-	2	2	3	2	-	2	-	2	2	1
<b>C301.2</b>	3	-	1	2	2	2	1	2	-	3	2	-	3	3
<b>C301.3</b>	2	2	1	2	2	3	-	1	1	2	2	-	2	2
<b>C301.4</b>	3	3	2	1	3	2	3	2	2	3	-	3	3	3
<b>C301.5</b>	3	1	2	-	2	2	-	2	1	3	2	1	3	3
<b>C301.6</b>	2	3	-	2	2	1	-	3	-	3	1	3	1	2
<b>C301</b>	3	3	2	2	2	2	2	2	1	3	2	3	3	3



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**Course Outcomes (COs)**

**Course Name with subject code: Discrete – Time signal Processing / EC8553**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C302.1</b>	Apply DFT for the analysis of digital signals and systems
<b>C302.2</b>	Design IIR and FIR filters
<b>C302.3</b>	Characterize the effects of finite precision representation on digital filters
<b>C302.4</b>	Design multirate filters
<b>C302.5</b>	Apply adaptive filters appropriately in communication systems
<b>C302.6</b>	Explain the concept of multirate signal processing.

**CO – PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>C302.1</b>	3	3	3	2	1	3	3	2	-	1	-	3	2	1
<b>C302.2</b>	3	2	2	3	1	2	3	2	-	1	-	3	1	-
<b>C302.3</b>	3	2	3	3	3	3	3	2	-	2	-	2	1	1
<b>C302.4</b>	2	3	3	2	2	3	2	1	-	2	-	3	2	1
<b>C302.5</b>	3	2	2	2	1	2	3	1	-	2	-	3	1	-
<b>C302.6</b>	2	3	2	3	1	2	2	2	-	1	-	2	2	-
<b>C302</b>	3	3	3	3	2	3	3	2	-	2	-	3	2	1



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**Course Outcomes (COs)**

**Course Name with subject code: Computer Architecture and Organization / EC8552**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C303.1</b>	Describe data representation, instruction formats and the operation of a digital computer
<b>C303.2</b>	Illustrate the fixed point and floating-point arithmetic for ALU operation
<b>C303.3</b>	Discuss about implementation schemes of control unit and pipeline performance
<b>C303.4</b>	Explain the concept of various memories, interfacing and organization of multiple processors
<b>C303.5</b>	Discuss parallel processing technique and unconventional architectures
<b>C303.6</b>	Explain the concepts and performance analysis of I/O systems.

**CO – PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02
<b>C303.1</b>	3	3	2	-	1	-	-	1	-	1	-	1	1	1
<b>C303.2</b>	2	2	2	-	1	-	-	1	-	-	-	1	1	1
<b>C303.3</b>	3	2	3	-	-	-	-	1	-	-	-	-	1	1
<b>C303.4</b>	3	3	3	-	1	-	-	-	-	1	-	1	1	1
<b>C303.5</b>	3	3	3	-	-	-	-	-	-	1	-	1	1	1
<b>C303.6</b>	2	2	2	-	-	-	-	-	-	1	-	-	1	1
<b>C303</b>	3	3	3	-	1	-	-	1	-	1	-	1	1	1



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**Course Outcomes (COs)**

**Course Name with subject code: Communication Networks /EC8551**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C304.1</b>	Identify the components required to build different types of networks
<b>C304.2</b>	Choose the required functionality at each layer for given application
<b>C304.3</b>	Identify solution for each functionality at each layer
<b>C304.4</b>	Trace the flow of information from one node to another node in the network
<b>C304.5</b>	Analyze and Identify the features and operations of various application layer protocols.
<b>C304.6</b>	Compare the different internetworking devices and their functions.

**CO – PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>C304.1</b>	1	-	-	-	-	2	3	3	-	2	-	-	1	1
<b>C304.2</b>	-	1	1	-	-	3	3	2	-	2	-	-	-	2
<b>C304.3</b>	1	1	1	-	-	3	2	3	-	2	-	-	1	2
<b>C304.4</b>	-	1	-	-	-	3	3	2	-	2	-	-	-	1
<b>C304.5</b>	1	-	1	-	-	2	3	2	-	2	-	-	1	2
<b>C304.6</b>	-	-	1	-	-	2	2	3	-	1	-	-	-	1
<b>C304</b>	1	1	1	-	-	3	3	3	-	2	-	1	1	2



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**Course Outcomes (COs)**

**Course Name with subject code: Digital Signal Processing Laboratory /EC8562**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C305.1</b>	Create a sequence and waveform using MATLAB and DSP processor.
<b>C305.2</b>	Develop linear and circular convolution using MATLAB and DSP processor.
<b>C305.3</b>	Evaluate the DFT of spectrum analysis and FFT using DSP processor.
<b>C305.4</b>	Design IIR, FIR and multirate filter using MATLAB and DSP processor.
<b>C305.5</b>	Analyze MAC operation using various addressing modes.
<b>C305.6</b>	Analyze finite word length effect on DSP system.

**CO – PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>C305.1</b>	3	3	3	3	3	1	1	1	-	1	-	-	3	3
<b>C305.2</b>	3	2	3	3	2	-	1	1	-	1	-	-	1	1
<b>C305.3</b>	3	3	2	3	3	1	1	-	-	1	-	-	2	1
<b>C305.4</b>	3	3	2	2	3	-	1	1	-	-	-	-	1	1
<b>C305.5</b>	2	2	3	2	2	-	1	-	-	1	-	-	1	3
<b>C305.6</b>	2	2	2	2	3	1	1	1	-	1	-	-	1	1
<b>C305</b>	3	3	3	3	3	1	1	1	-	1	-	-	2	2



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**Course Outcomes (COs)**

**Course Name with subject code: Communication Systems Laboratory /EC8561**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C306.1</b>	Experiment with AM, FM and sampling trainer kit.
<b>C306.2</b>	Demonstrate the end to end communication link.
<b>C306.3</b>	Experiment with PCM, DM, TDM and Line coding trainer kit.
<b>C306.4</b>	Examine the various baseband digital modulation schemes using MATLAB.
<b>C306.5</b>	Apply channel coding schemes to improve noise performance using MATLAB.
<b>C306.6</b>	Make use of zero forcing and LMS algorithm for equalization.

**CO - PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02
<b>C306.1</b>	3	3	3	3	3	2	-	1	-	1	2	3	2	2
<b>C306.2</b>	2	3	2	2	2	1	-	2	-	1	2	2	1	1
<b>C306.3</b>	3	2	2	2	3	2	-	2	-	1	1	2	2	2
<b>C306.4</b>	3	2	3	3	3	2	-	1	-	1	1	3	2	1
<b>C306.5</b>	2	3	2	3	2	1	-	2	-	1	2	2	2	1
<b>C306.6</b>	2	2	3	3	3	1	-	1	-	1	1	3	1	2
<b>C306</b>	3	3	3	3	3	2	-	2	-	1	2	3	2	2



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**Course Outcomes (COs)**

**Course Name with subject code: Communication Networks Laboratory/EC8563**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C307.1</b>	Communicate between two desktop computers
<b>C307.2</b>	Implement the different protocols
<b>C307.3</b>	Program using sockets.
<b>C307.4</b>	Implement and compare the various routing algorithms
<b>C307.5</b>	Use the simulation tool.
<b>C307.6</b>	Experiment with the encryption & Decryption concepts.

**CO – PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P12	PSO1	PSO2
<b>C307.1</b>	2	1	2	1	3	3	-	2	-	3	2	3	3	2
<b>C307.2</b>	2	-	2	1	3	2	-	2	-	3	3	3	3	2
<b>C307.3</b>	2	1	1	1	3	2	-	1	-	2	2	2	3	2
<b>C307.4</b>	1	-	1	2	2	3	-	1	-	2	2	2	2	3
<b>C307.5</b>	1	1	1	2	2	2	-	2	-	3	3	3	2	3
<b>C307.6</b>	1	-	2	2	2	3	-	1	-	2	3	2	2	3
<b>C307</b>	2	1	2	2	3	3	-	2	-	3	3	3	3	3



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**Course Outcomes (COs)**

**Course Name with subject code: Microprocessors and Microcontrollers /EC8691**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C310.1</b>	Understand and execute programs based on 8086 microprocessor.
<b>C310.2</b>	Design Memory Interfacing circuits.
<b>C310.3</b>	Design and interface I/O circuits.
<b>C310.4</b>	Design and implement 8051 microcontroller based systems.
<b>C310.5</b>	Demonstrate the programming proficiency using various addressing modes and instruction set of 8051.
<b>C310.6</b>	Apply interfacing with peripheral devices using 8086 Microprocessor and 8051 Microcontroller.

**CO - PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02
<b>C310.1</b>	1	-	-	-	2	2	-	3	3	2	2	-	1	1
<b>C310.2</b>	1	-	2	-	3	1	2	3	2	3	1	-	-	2
<b>C310.3</b>	1	1	-	-	3	1	2	2	3	3	1	1	1	2
<b>C310.4</b>	1	2	-	-	2	2	3	2	3	2	2	2	-	1
<b>C310.5</b>	1	-	-	-	3	1	1	3	2	3	1	-	1	2
<b>C310.6</b>	1	2	2	-	3	2	2	2	2	3	2	2	-	1
<b>C310</b>	1	1	1	-	-	2	2	3	3	3	2	1	1	2

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**Course Outcomes (COs)**

**Course Name with subject code: VLSI Design / EC8095**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C311.1</b>	Realize the concepts of digital building blocks using MOS transistor.
<b>C311.2</b>	Design combinational MOS circuits and power strategies.
<b>C311.3</b>	Design and construct Sequential Circuits and Timing systems.
<b>C311.4</b>	Design arithmetic building blocks and memory subsystems.
<b>C311.5</b>	Apply and implement FPGA design flow and testing.
<b>C311.6</b>	Discuss the techniques of IC design using programmable device.

**CO - PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>C311.1</b>	3	2	-	-	-	1	1	1	-	1	-	2	1	2
<b>C311.2</b>	3	2	-	2	-	1	1	-	-	1	-	2	-	1
<b>C311.3</b>	2	2	1	3	-	1	-	1	-	1	-	1	1	1
<b>C311.4</b>	3	1	1	2	-	1	1	1	-	1	-	2	1	2
<b>C311.5</b>	2	1	1	1	-	1	-	-	-	1	-	1	-	2
<b>C311.6</b>	2	1	-	-	-	1	1	-	-	1	-	1	1	1
<b>C311</b>	3	2	1	2	-	1	1	1	-	1	-	2	1	2

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**Course Outcomes (COs)**

**Course Name with subject code: Wireless Communication / EC8692**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C312.1</b>	Characterize a wireless channel and evolve the system design specifications
<b>C312.2</b>	Design a cellular system based on resource availability and traffic demands
<b>C312.3</b>	Identify suitable signaling and multipath mitigation techniques for the wireless channel and system under consideration.
<b>C312.4</b>	Summarize the diversity techniques involved in signal processing.
<b>C312.5</b>	Outline the propagation models of wireless channels.
<b>C312.6</b>	Demonstrate multiple antenna systems.

**CO - PO Map**

COs	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02
<b>C312.1</b>	3	3	3	2	2	2	-	2	-	2	-	3	2	1
<b>C312.2</b>	2	3	3	3	3	-	2	2	2	3	1	2	1	2
<b>C312.3</b>	3	2	2	3	3	2	-	3	-	2	-	2	2	2
<b>C312.4</b>	3	3	-	2	3	-	-	2	2	2	-	3	2	2
<b>C312.5</b>	2	3	3	3	2	-	2	1	-	2	1	2	2	2
<b>C312.6</b>	3	2	-	2	3	-	-	2	-	1	-	3	3	2
<b>C312</b>	3	3	3	3	3	2	2	2	2	2	1	3	2	2

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**Course Outcomes (COs)**

**Course Name with subject code: Principles of Management / MG8591**

<b>Course Code</b>	<b>Course Outcomes</b>
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C313.1</b>	Evaluate the global context for taking managerial actions of planning, organizing and controlling.
<b>C313.2</b>	Assess global situation, including opportunities and threats that will impact management of an organization.
<b>C313.3</b>	Assess managerial practices and choices relative to ethical principles and standards.
<b>C313.4</b>	Specify how the managerial tasks of planning, organizing, and controlling can be executed in a variety of circumstances.
<b>C313.5</b>	Develop connection between students studies, personal life and career.
<b>C313.6</b>	Demonstrate knowledge of organizational conflict, negotiation, politics and change.

**CO - PO Map**

<b>COs</b>	<b>P01</b>	<b>P02</b>	<b>P03</b>	<b>P04</b>	<b>P05</b>	<b>P06</b>	<b>P07</b>	<b>P08</b>	<b>P09</b>	<b>P010</b>	<b>P011</b>	<b>P012</b>	<b>PS01</b>	<b>PS02</b>
<b>C313.1</b>	1	3	-	-	-	2	-	3	3	2	2	-	1	1
<b>C313.2</b>	1	2	2	-	-	1	2	3	2	3	1	-	-	2
<b>C313.3</b>	1	1	2	-	-	1	2	2	3	3	1	1	1	2
<b>C313.4</b>	1	2	1	-	-	2	3	2	3	2	2	2	-	1
<b>C313.5</b>	1	-	-	-	-	1	1	3	2	3	1	-	1	2
<b>C313.6</b>	1	2	2	-	-	2	2	2	2	3	2	2	-	1
<b>C313</b>	1	2	2	-	-	2	2	3	3	3	2	1	1	2

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**Course Outcomes (COs)**

**Course Name with subject code: Transmission Lines and RF Systems /EC8651**

Course Code	Course Outcomes
Code	<i>On Successful completion of the course, Students will be able to,</i>
<b>C314.1</b>	Explain the characteristics of transmission lines and its losses
<b>C314.2</b>	Write about the standing wave ratio and input impedance in high frequency transmission lines
<b>C314.3</b>	Analyze impedance matching by stubs using smith charts
<b>C314.4</b>	Analyze the characteristics of TE and TM waves
<b>C314.5</b>	Design a RF transceiver system for wireless communication
<b>C314.6</b>	Get Knowledge with RF system transceiver design

**CO - PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02
<b>C314.1</b>	3	3	3	3	2	2	2	1	-	2	-	2	3	2
<b>C314.2</b>	2	3	2	3	2	1	1	1	-	1	-	1	2	2
<b>C314.3</b>	2	2	3	2	1	1	1	1	-	2	-	1	3	1
<b>C314.4</b>	3	2	2	2	1	2	2	1	-	1	-	2	2	1
<b>C314.5</b>	2	3	3	3	2	2	2	-	-	1	-	1	2	2
<b>C314.6</b>	3	3	2	3	1	2	1	-	-	2	-	2	3	1
<b>C314</b>	3	3	3	3	2	2	2	1	-	2	-	2	3	2

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**Course Outcomes (COs)**

**Course Name with subject code: Microprocessors and Microcontrollers Laboratory /  
EC8681**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C315.1</b>	Write ALP Programmes for fixed and Floating Point and Arithmetic operations
<b>C315.2</b>	Interface different I/Os with processor
<b>C315.3</b>	Generate waveforms using Microprocessors
<b>C315.4</b>	Execute Programs in 8051
<b>C315.5</b>	Explain the difference between simulator and Emulator
<b>C315.6</b>	Design conversion techniques using 8051.

**CO – PO Map**

COs	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02
<b>C315.1</b>	3	3	3	3	2	2	-	1	-	1	-	2	1	1
<b>C315.2</b>	3	2	3	3	3	2	-	1	-	1	-	2	1	2
<b>C315.3</b>	2	2	2	2	2	1	-	2	-	1	-	3	1	-
<b>C315.4</b>	2	3	2	2	2	1	-	2	-	1	-	3	1	-
<b>C315.5</b>	3	3	3	3	3	2	-	1	-	1	-	2	1	1
<b>C315.6</b>	3	2	3	2	3	1	-	2	-	1	-	3	2	2
<b>C315</b>	3	3	3	3	3	2	-	2	-	1	-	3	1	2

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**Course Outcomes (COs)**

**Course Name with subject code: VLSI Design Laboratory / EC8661**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C316.1</b>	Write HDL code for basic as well as advanced digital integrated circuit
<b>C316.2</b>	Import the logic modules into FPGA Boards
<b>C316.3</b>	Synthesize Place and Route the digital IPs
<b>C316.4</b>	Design, Simulate and Extract the layouts of Digital & Analog IC Blocks using EDA tools
<b>C316.5</b>	Analyze P&R, Power and clock routing, post P&R simulation and timing analysis of differential amplifier.
<b>C316.6</b>	Design, Simulate and Extract the layouts of Analog IC Blocks using CADENCE / MENTOR GRAPHICS / EQUIVALENT tools.

**CO - PO Map**

COs	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02
<b>C316.1</b>	3	3	3	2	3	-	-	1	-	2	-	-	1	2
<b>C316.2</b>	2	2	2	1	2	-	-	1	-	1	-	-	2	2
<b>C316.3</b>	3	2	2	2	3	-	-	1	-	1	-	-	2	2
<b>C316.4</b>	3	3	3	2	2	-	-	1	-	2	-	-	1	2
<b>C316.5</b>	3	3	3	1	3	-	-	1	-	1	-	-	2	2
<b>C316.6</b>	3	3	3	2	2	-	-	1	-	2	-	-	1	2
<b>C316</b>	3	3	3	2	3	-	-	1	-	2	-	-	2	2

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**Course Outcomes (COs)**

**Course Name with subject code: Technical Seminar / EC8611**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
C317.1	
C317.2	
C317.3	
C317.4	
C317.5	
C317.6	

**CO - PO Map**

COs	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02
C317.1	1	1	-	-	2	-	2	2	3	3	3	3	3	3
C317.2	-	-	-	-	1	-	1	2	2	3	2	2	2	2
C317.3	1	-	-	1	1	-	3	3	3	2	3	3	3	3
C317.4	-	-	-	-	2	-	1	3	2	3	2	2	2	3
C317.5	-	-	-	-	1	-	1	2	3	1	2	3	2	2
C317.6	-	-	2	-	2	-	1	3	2	3	3	2	3	2
C317	-	-	-	-	2	-	2	3	3	3	3	3	3	3

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**Course Outcomes (COs)**

**Course Name with subject code: Antennas and Microwave Engineering / EC8701**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C401.1</b>	Apply the basic principles and evaluate antenna parameters and link power budgets
<b>C401.2</b>	Design and assess the performance of various antennas
<b>C401.3</b>	Design a microwave system given the application specifications
<b>C401.4</b>	Explain the importance of matching networks in RF amplifiers.
<b>C401.5</b>	Relate various parameters of microwave devices.
<b>C401.6</b>	Examine the parameters of microwave Tubes.

**CO - PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02
<b>C401.1</b>	3	3	3	3	2	2	2	3	-	2	-	2	2	2
<b>C401.2</b>	3	3	2	3	3	1	1	2	-	3	2	-	3	2
<b>C401.3</b>	2	2	3	2	3	1	1	2	2	2	-	2	3	3
<b>C401.4</b>	3	2	2	2	3	2	2	2	-	2	2	3	2	2
<b>C401.5</b>	3	3	3	3	2	2	2	2	2	1	-	1	3	2
<b>C401.6</b>	2	3	2	3	3	2	1	3	-	1	-	2	3	2
<b>C401</b>	3	3	3	3	3	2	2	2	2	2	2	2	3	2

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**Course Outcomes (COs)**

**Course Name with subject code: Optical Communication / EC8751**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C402.1</b>	Realize basic elements in optical fibers, different modes and configurations.
<b>C402.2</b>	Analyze the transmission characteristics associated with dispersion and polarization techniques.
<b>C402.3</b>	Design optical sources and detectors with their use in optical communication system.
<b>C402.4</b>	Construct fiber optic receiver systems, measurements and coupling techniques.
<b>C402.5</b>	Design optical communication systems and its networks.
<b>C402.6</b>	Outline the concept of SONET/SDH and WDM.

**CO - PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02
<b>C402.1</b>	3	3	3	-	3	-	2	2	-	2	-	1	3	3
<b>C402.2</b>	3	3	2	-	3	-	1	2	-	1	-	1	2	3
<b>C402.3</b>	2	3	2	-	2	-	2	1	-	2	-	1	3	2
<b>C402.4</b>	2	2	2	-	2	-	1	2	-	1	-	1	3	2
<b>C402.5</b>	3	3	3	-	3	-	1	1	-	2	-	1	3	2
<b>C402.6</b>	3	2	3	-	2	-	2	2	-	1	-	1	2	3
<b>C402</b>	3	3	3	-	3	-	2	2	-	2	-	1	3	3

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**Course Outcomes (COs)**

**Course Name with subject code: Embedded and Real Time Systems / EC8791**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C403.1</b>	Describe the architecture and programming of ARM processor
<b>C403.2</b>	Outline the concepts of embedded systems
<b>C403.3</b>	Explain the basic concepts of real time operating system design
<b>C403.4</b>	Model real-time applications using embedded-system concepts
<b>C403.5</b>	Differentiate between the general purpose operating system and the real time operating system.
<b>C403.6</b>	Make use of the system design techniques to develop software for embedded systems.

**CO - PO Map**

COs	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02
<b>C403.1</b>	3	1	1	1	1	2	1	1	2	1	1	2	3	2
<b>C403.2</b>	3	1	1	1	-	1	2	1	1	-	2	2	3	2
<b>C403.3</b>	3	2	1	1	-	1	2	1	2	1	2	3	3	3
<b>C403.4</b>	3	1	2	2	2	2	1	1	1	1	1	2	2	3
<b>C403.5</b>	2	2	-	-	-	2	2	1	1	1	2	3	2	2
<b>C403.6</b>	3	2	2	2	2	1	1	1	2	-	1	3	2	3
<b>C403</b>	3	2	1	1	2	2	2	1	2	1	2	3	3	3



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**Course Outcomes (COs)**

**Course Name with subject code: Ad hoc and Wireless Sensor Networks / EC8702**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C404.1</b>	Know the basics of Ad hoc networks and Wireless Sensor Networks
<b>C404.2</b>	Apply this knowledge to identify the suitable routing algorithm based on the network and user requirement
<b>C404.3</b>	Apply the knowledge to identify appropriate physical and MAC layer protocols
<b>C404.4</b>	Understand the transport layer and security issues possible in Ad hoc and sensor networks.
<b>C404.5</b>	Be familiar with the OS used in Wireless Sensor Networks and build basic modules
<b>C404.6</b>	Develop programming platforms and tools.

**CO – PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>C404.1</b>	3	1	1	1	1	2	-	-	-	-	-	-	3	2
<b>C404.2</b>	3	1	2	1	2	1	-	-	-	-	-	-	3	2
<b>C404.3</b>	3	2	1	1	-	1	-	-	-	-	-	-	3	3
<b>C404.4</b>	3	1	2	2	2	2	-	-	-	-	-	-	2	3
<b>C404.5</b>	2	2	2	-	-	2	-	-	-	-	-	-	2	2
<b>C404.6</b>	3	2	2	2	2	1	-	-	-	-	-	-	2	3
<b>C404</b>	3	2	2	2	2	2	-	-	-	-	-	-	3	3



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Course Outcomes (COs)

Course Name with subject code: Embedded Laboratory/EC8711

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
C405.1	Discuss the basic concept of ARM evaluation system.
C405.2	Analyze the given interface (ADC, DAC, LED, PWM, Keyboard, LCD, Stepper Motor and Temperature sensor) with ARM processor.
C405.3	Analyze the performance of interrupt for ARM and FPGA.
C405.4	Examine the implementation of Zigbee protocol and Flashing LED with ARM.
C405.5	Develop a mailbox using ARM.
C405.6	Formulate a mini project using embedded system.

**CO – PO Map**

COs	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02
C405.1	3	1	2	-	-	-	1	2	-	1	-	2	2	2
C405.2	3	1	3	1	2	-	1	2	-	1	-	1	3	2
C405.3	3	1	2	-	1	-	1	1	-	2	-	1	1	3
C405.4	2	2	3	1	1	-	1	1	-	1	-	2	1	3
C405.5	2	1	2	-	1	-	1	2	-	1	-	1	1	2
C405.6	3	3	3	2	1	-	1	1	-	2	-	2	2	3
C405.1	3	2	3	1	1	-	1	2	-	1	-	2	2	3



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**Course Outcomes (COs)**

**Course Name with subject code: Advanced Communication Laboratory/EC8761**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C406.1</b>	Analyze the performance of simple optical link by measurement of losses
<b>C406.2</b>	Analyze the mode characteristics of fiber
<b>C406.3</b>	Analyze the Eye Pattern, Pulse broadening of optical fiber and the impact on BER
<b>C406.4</b>	Estimate the Wireless Channel Characteristics
<b>C406.5</b>	Analyze the performance of Wireless Communication System
<b>C406.6</b>	Understand the intricacies in Microwave System design

**CO – PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02
<b>C406.1</b>	3	3	3	2	3	2	-	1	-	1	-	3	2	1
<b>C406.2</b>	3	2	2	1	3	1	-	1	-	-	-	3	1	-
<b>C406.3</b>	2	2	3	2	2	2	-	1	-	1	-	2	2	1
<b>C406.4</b>	3	2	2	1	3	1	-	1	-	1	-	3	1	1
<b>C406.5</b>	2	3	2	1	2	1	-	1	-	-	-	3	1	1
<b>C406.6</b>	3	2	3	2	3	2	-	1	-	1	-	2	2	-
<b>C406</b>	3	3	3	2	3	2	-	1	-	1	-	3	2	1



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**Course Outcomes (COs)**

**Course Name with Subject Code: Digital Image Processing/EC8093**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C407.1</b>	Explain the fundamentals of digital image processing.
<b>C407.2</b>	Compare various filters for image enhancement techniques.
<b>C407.3</b>	Outline the filters for image restoration.
<b>C407.4</b>	Make use of image segmentation technique for enhancing the images.
<b>C407.5</b>	Develop various codes for image compression.
<b>C407.6</b>	Explain how to represent the features of an image.

**CO – PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02
<b>C407.1</b>	3	1	3	3	3	3	-	1	-	1	-	3	2	1
<b>C407.2</b>	2	2	3	3	3	2	-	1	-	-	-	2	1	1
<b>C407.3</b>	2	1	2	2	2	1	-	1	-	1	-	3	1	1
<b>C407.4</b>	3	-	3	2	2	1	-	1	-	1	-	3	2	1
<b>C407.5</b>	3	3	2	3	2	1	-	1	-	1	-	3	1	1
<b>C407.6</b>	2	1	2	3	3	1	-	1	-	-	-	2	2	1
<b>C407</b>	3	2	3	3	3	2	-	1	-	1	-	3	2	1



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**Course Outcomes (COs)**

**Course Name with Subject Code: Satellite Communication/EC8094**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C408.1</b>	Analyze the satellite orbits
<b>C408.2</b>	Analyze the earth segment and space segment
<b>C408.3</b>	Analyze the satellite Link design
<b>C408.4</b>	Design various satellite applications
<b>C408.5</b>	Analyze the various methods of satellite access
<b>C408.6</b>	Understand the basics of satellite Networks

**CO – PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02
<b>C408.1</b>	3	1	3	3	3	3	-	1	-	1	-	3	2	1
<b>C408.2</b>	2	2	3	3	3	2	-	1	-	-	-	2	1	1
<b>C408.3</b>	2	1	2	2	2	1	-	1	-	1	-	3	1	1
<b>C408.4</b>	3	-	3	2	2	1	-	1	-	1	-	3	2	1
<b>C408.5</b>	3	3	2	3	2	1	-	1	-	1	-	3	1	1
<b>C408.6</b>	2	1	2	3	3	1	-	1	-	-	-	2	2	1
<b>C408</b>	3	2	3	3	3	2	-	1	-	1	-	3	2	1



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**Course Outcomes (COs)**

**Course Name with subject code : Project work / EC8811**

Course Code	Course Outcomes
	<i>On Successful completion of the course, Students will be able to,</i>
<b>C409.1</b>	Identify the problem domain, collect and review the literature, and define the problem.
<b>C409.2</b>	Analyze the data collected/generated by applying appropriate techniques, resources and modern engineering tools and interpret the results and synthesize the information to provide valid conclusions.
<b>C409.3</b>	Examine the analyzed results to understand the impact of the professional engineering solutions with ethics, society and environment.
<b>C409.4</b>	Illustrate the results with effective presentations in graphical and tabular form to write effective reports and design documentation.
<b>C409.5</b>	Recognize the need and scope for future study in the broader context of technology.
<b>C409.6</b>	Function as individuals, members and leading the team to manage projects in multidisciplinary environments.

**CO – PO Map**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>C409.1</b>	3	-	1	1	-	3	3	3	3	2	3	3	1	2
<b>C409.2</b>	2	1	-	-	3	3	3	3	2	1	2	3	1	2
<b>C409.3</b>	-	1	1	-	1	3	3	3	2	2	3	3	1	2
<b>C409.4</b>	-	-	-	-	3	2	2	2	2	3	2	2	1	3
<b>C409.5</b>	1	-	-	1	-	3	2	2	3	2	3	3	1	3
<b>C409.6</b>	-	-	-	-	-	2	3	3	3	1	3	2	1	2
<b>C409</b>	1	1	1	1	1	3	3	3	3	2	3	3	1	2



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