



# SRI BHARATHI

ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
Kaikkurichi, Pudukkottai -622 303

[www.sbec.edu.in](http://www.sbec.edu.in)

## NAAC DOCUMENTS



Quality Indicator Frame Work

Criterion – 2

Teaching-Learning and Evaluation

Submitted by

**IQAC**

**Internal Quality Assurance Cell**

**Sri Bharathi Engineering College for Women**



# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and affiliated to Anna University, Chennai)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

<b>Criteria 2</b>	<b>Teaching-Learning and Evaluation</b>	<b>350</b>
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## **Key Indicator-2.6 Student Performances and Learning Outcome (90)**

*2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all programmes offered by the institution are stated and displayed on website*

DEPARTMENT OF  
ELECTRICAL AND ELECTRONICS  
ENGINEERING  
R2017



# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

KAIKKURICHI, PUDUKKOTTAI - 622 303

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

## I YEAR/I SEMESTER

### REGULATION 2017

### B.E. EEE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
HS8151	COMMUNICATIVE ENGLISH	<b>C101.1:</b> Develop vocabulary of a general kind by developing their reading skills.
		<b>C101.2:</b> Explain their opinions in English and Participate effectively in informal conversations; introduce themselves and their friends.
		<b>C101.3:</b> Comprehend conversations and short talks delivered in English.
		<b>C101.4:</b> Write short essays of a general kind and personal letters and emails in English.
		<b>C101.5:</b> Develop their speaking skills and speak fluently in real contexts.
		<b>C101.6:</b> Discuss about the general kind in magazines and Newspapers.

### CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C101.1	-	-	-	-	-	2	2	2	2	2	-	2	-	-	-
C101.2	-	-	-	-	-	2	2	2	2	2	-	2	-	-	-
C101.3	-	-	-	-	-	2	2	2	2	2	-	2	-	-	-
C101.4	-	-	-	-	-	2	2	2	2	2	-	2	-	-	-
C101.5	-	-	-	-	-	2	2	2	2	2	-	2	-	-	-
C101.6	-	-	-	-	-	2	2	2	2	2	-	2	-	-	-
<b>C101</b>	-	-	-	-	-	2	2	2	2	2	-	2	-	-	-

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*Dr. R. Srinivasan*

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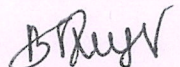
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
MA8151	Engineering Mathematics-I	<b>C102.1:</b> Apply the limit definition and rules of differentiation to differentiate functions
		<b>C102.2:</b> Apply differentiation to solve maxima and minima problems.
		<b>C102.3:</b> Evaluate integrals both by using Riemann sums and by using the Fundamental Theorem of Calculus.
		<b>C102.4:</b> Apply integration to compute multiple integrals, area, volume, integrals in polar coordinates, in addition to change of order and change of variables.
		<b>C102.5:</b> Evaluate integrals using techniques of integration, such as substitution, partial fractions and integration by parts.
		<b>C102.6:</b> Apply various techniques in solving differential equations.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C102.1	3	2	2	2	-	-	-	-	-	2	-	2	-	2	-
C102.2	3	2	2	2	-	-	-	-	-	2	-	2	-	2	-
C102.3	3	2	2	2	-	-	-	-	-	2	-	2	-	2	-
C102.4	3	2	2	2	-	-	-	-	-	2	-	2	-	2	-
C102.5	3	2	2	2	-	-	-	-	-	2	-	2	-	2	-
C102.6	3	2	2	2	-	-	-	-	-	2	-	2	-	2	-
<b>C102</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	-	-	-	-	-	<b>2</b>	-	<b>2</b>	-	<b>2</b>	-

  
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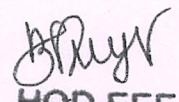
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
PH8151	ENGINEERING PHYSICS	<b>C103.1:</b> Explain the basics of properties of matter and its applications.
		<b>C103.2:</b> Describe the characteristics of laser light and their application in semiconductor laser
		<b>C103.3:</b> Discuss the principle behind the propagation of light through an optical fiber and its application in sensors
		<b>C103.4:</b> Summarize the different modes of heat transfer.
		<b>C103.5:</b> Relate the quantum concepts in electron microscopes.
		<b>C103.6:</b> Describe the unit cell characteristics and the growth of crystals.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C103.1	2	2	1	1	-	-	1	-	-	1	-	1	2	-	-
C103.2	2	2	1	1	-	-	1	-	-	1	-	1	2	-	-
C103.3	2	2	1	1	-	-	1	-	-	1	-	1	2	-	-
C103.4	2	2	1	1	-	-	1	-	-	1	-	1	2	-	-
C103.5	2	2	1	1	-	-	1	-	-	1	-	1	2	-	-
C103.6	2	2	1	1	-	-	1	-	-	1	-	1	2	-	-
<b>C103</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>-</b>

  
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**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
CY8151	ENGINEERING CHEMISTRY	<b>C104.1:</b> Summarize the water related problems in boilers and their treatment techniques.
		<b>C104.2:</b> Discuss the applications of adsorption in the field of water and air pollution abatement.
		<b>C104.3:</b> Discuss the types of catalysis and the mechanism of enzyme catalysis.
		<b>C104.4:</b> Apply phase rule in the alloying and the behaviour of one component and two component systems using phase diagram.
		<b>C104.5:</b> Explain various types of fuels, their manufacturing processes and calculation of calorific theoretically.
		<b>C104.6:</b> Summarize the principles and generation of energy in batteries, nuclear reactors, solar cells, wind mills and fuel cells.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C104.1	3	2	1	1	-	-	1	-	-	1	-	1	1	-	-
C104.2	3	2	1	1	-	-	1	-	-	1	-	1	1	-	-
C104.3	3	2	1	1	-	-	1	-	-	1	-	1	1	-	-
C104.4	3	2	1	1	-	-	1	-	-	1	-	1	1	-	-
C104.5	3	2	1	1	-	-	1	-	-	1	-	1	1	-	-
C104.6	3	2	1	1	-	-	1	-	-	1	-	1	1	-	-
<b>C104</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	-	-	<b>1</b>	-	-	<b>1</b>	-	<b>1</b>	<b>1</b>	-	-

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**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
<b>GE8151</b>	<b>Problem Solving and Python Programming</b>	<b>C105.1:</b> Explain the basics of fundamentals of computing.
		<b>C105.2:</b> Describe the basics of algorithmic problem solving.
		<b>C105.3:</b> Solve problems using Python conditionals and loops.
		<b>C105.4:</b> Define Python functions and use function calls to solve Problems.
		<b>C105.5:</b> Apply Python data structures - lists, tuples and dictionaries to represent complex data.
		<b>C105.6:</b> Explain the importance of Read and write data from/to files in Python programs.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C105.1	2	2	1	1	1	-	-	-	-	1	-	1	1	-	1
C105.2	3	2	2	1	1	-	-	-	-	1	-	1	1	-	1
C105.3	2	2	2	1	1	-	-	-	-	1	-	1	1	-	1
C105.4	2	2	2	1	1	-	-	-	-	1	-	1	1	-	1
C105.5	3	2	2	1	1	-	-	-	-	1	-	1	1	-	1
C105.6	2	2	1	1	1	-	-	-	-	1	-	1	1	-	1
<b>C105</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>

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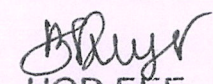
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
<b>GE8152</b>	<b>ENGINEERING GRAPHICS</b>	<b>C106.1:</b> Familiarize with the fundamentals and standards of Engineering graphics.
		<b>C106.2:</b> Perform freehand sketching of basic geometrical constructions and multiple views of objects.
		<b>C106.3:</b> Project orthographic projections of lines and plane surfaces.
		<b>C106.4:</b> Draw projections and solids and development of surfaces.
		<b>C106.5:</b> Visualize and to project isometric sections of simple solids.
		<b>C106.6:</b> Visualize and to project perspective sections of simple solids.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C106.1	3	2	1	1	-	1	1	-	1	1	1	-	1	-	-
C106.2	3	2	1	1	-	1	1	-	1	1	1	-	1	-	-
C106.3	3	2	1	1	-	1	1	-	1	1	1	-	1	-	-
C106.4	3	2	1	1	-	1	1	-	1	1	1	-	1	-	-
C106.5	3	2	1	1	-	1	1	-	1	1	1	-	1	-	-
C106.6	3	2	1	1	-	1	1	-	1	1	1	-	1	-	-
<b>C106</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>

  
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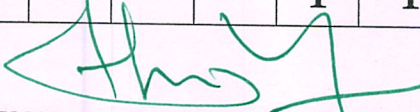
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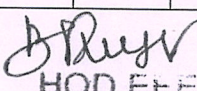
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
GE8161	Problem Solving and Python Programming Laboratory	<b>C107.1:</b> Develop algorithmic solutions to simple computational problems.
		<b>C107.2:</b> Design and execute simple Python programs.
		<b>C107.3:</b> Solve programs in Python using conditionals and loops for solving problems.
		<b>C107.4:</b> Apply functions to decompose a Python program.
		<b>C107.5:</b> Analyze compound data using Python data structures.
		<b>C107.6:</b> Utilize Python packages in developing software applications.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C107.1	3	2	2	1	1	-	-	-	1	1	-	1	2	-	2
C107.2	3	2	2	1	1	-	-	-	1	1	-	1	2	-	2
C107.3	3	2	2	1	1	-	-	-	1	1	-	1	2	-	2
C107.4	3	2	2	1	1	-	-	-	1	1	-	1	2	-	2
C107.5	3	2	2	1	1	-	-	-	1	1	-	1	2	-	2
C107.6	3	2	2	1	1	-	-	-	1	1	-	1	2	-	2
<b>C107</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	-	-	-	<b>1</b>	<b>1</b>	-	<b>1</b>	<b>2</b>	-	<b>2</b>

  
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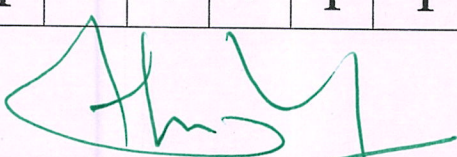
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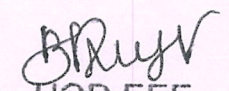
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
BS8161	PHYSICS & CHEMISTRY LABORATORY	<b>C208.1:</b> Determine the Modulus of elasticity of materials and Coefficient of Viscosity of liquids.
		<b>C208.2:</b> Determine the Thermal Conductivity of bad conductor using Lee's disc method.
		<b>C208.3:</b> Determine of wavelength and particle size using Laser and Determination of acceptance angle in an optical fiber.
		<b>C208.4:</b> Calculate water quality parameters such as hardness, alkalinity of the given water sample.
		<b>C208.5:</b> Estimate the amount of the given acids using pH titrations.
		<b>C208.6:</b> Determine the amount of iron content in the given substance using potentiometric titration and Determine the amount of chloride content in the given water sample.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P0 10	P0 11	P0 12	PSO 1	PSO 2	PSO 3
C108.1	3	2	2	1	1	-	-	-	1	1	-	1	2	1	-
C108.2	3	2	2	1	1	-	-	-	1	1	-	1	2	1	-
C108.3	3	2	2	1	1	-	-	-	1	1	-	1	2	1	-
C108.4	3	2	2	1	1	-	-	-	1	1	-	1	2	1	-
C108.5	3	2	2	1	1	-	-	-	1	1	-	1	2	1	-
C108.6	3	2	2	1	1	-	-	-	1	1	-	1	2	1	-
<b>C108</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	-	-	-	<b>1</b>	<b>1</b>	-	<b>1</b>	<b>2</b>	<b>1</b>	-

  
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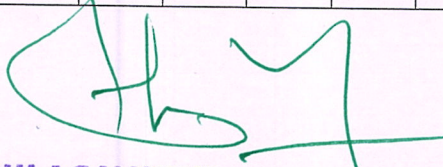
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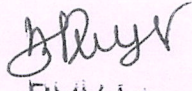
**I YEAR/II SEMESTER**  
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
HS8251	TECHNICAL ENGLISH	<b>C109.1:</b> Apply strategies in reading and comprehending engineering and technology text.
		<b>C109.2:</b> Use convincing job applications.
		<b>C109.3:</b> Apply speaking skill to make technical presentations.
		<b>C109.4:</b> Use the formats for effective report writing.
		<b>C109.5:</b> Apply speaking skill to participate in group discussions.
		<b>C109.6:</b> Apply the active listening skills to comprehend lectures and technical talks.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C109.1	-	-	-	-	-	2	2	2	2	2	-	2	-	-	-
C109.2	-	-	-	-	-	2	2	2	2	2	-	2	-	-	-
C109.3	-	-	-	-	-	2	2	2	2	2	-	2	-	-	-
C109.4	-	-	-	-	-	2	2	2	2	2	-	2	-	-	-
C109.5	-	-	-	-	-	2	2	2	2	2	-	2	-	-	-
C109.6	-	-	-	-	-	2	2	2	2	2	-	2	-	-	-
<b>C109</b>	-	-	-	-	-	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	-	<b>2</b>	-	-	-

  
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**REGULATION 2017**

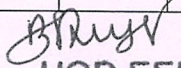
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
MA8251	Engineering Mathematics-II	<b>C110.1:</b> Explain about the Eigen values and eigenvectors, diagonalization of a matrix, Symmetric matrices, Positive definite matrices and similar matrices.
		<b>C110.2:</b> Apply Gradient, divergence and curl of a vector point function and related identities.
		<b>C110.3:</b> Evaluation of line, surface and volume integrals using Gauss, Stokes and Green's theorems and their verification.
		<b>C110.4:</b> Evaluate the problems based on Analytic functions, conformal mapping and complex integration.
		<b>C110.5:</b> Explain about the Laplace transform and inverse transform of simple functions, properties, various related theorems and application to differential equations with constant coefficients.
		<b>C110.6:</b> Evaluate the linear second order differential equations with constant coefficients.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C110.1	3	2	2	2	-	-	-	-	-	2	-	2	1	1	-
C110.2	3	2	2	2	-	-	-	-	-	2	-	2	1	1	-
C110.3	3	2	2	2	-	-	-	-	-	2	-	2	1	1	-
C110.4	3	2	2	2	-	-	-	-	-	2	-	2	1	1	-
C110.5	3	2	2	2	-	-	-	-	-	2	-	2	1	1	-
C110.6	3	2	2	2	-	-	-	-	-	2	-	2	1	1	-
<b>C110</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	-	-	-	-	-	<b>2</b>	-	<b>2</b>	<b>1</b>	<b>1</b>	-

  
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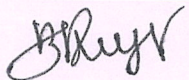
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
PH8253	PHYSICS FOR ELECTRONICS ENGINEERING	<b>C111.1:</b> Gain knowledge on classical and quantum electron theories, and energy band structures.
		<b>C111.2:</b> Acquire knowledge on basics of semiconductor physics and its applications in various devices.
		<b>C111.3:</b> Get knowledge on magnetic properties.
		<b>C111.4:</b> Establish knowledge on dielectric properties of materials.
		<b>C111.5:</b> Explain the necessary understanding on the functioning of optical materials for optoelectronics.
		<b>C111.6:</b> Comprehend the basics of quantum structures and their applications in spintronics and carbon electronics.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C111.1	2	2	2	2	-	-	-	-	-	2	-	2	2	-	-
C111.2	2	2	2	2	-	-	-	-	-	2	-	2	2	-	-
C111.3	2	2	2	2	-	-	-	-	-	2	-	2	2	-	-
C111.4	2	2	2	2	-	-	-	-	-	2	-	2	2	-	-
C111.5	2	2	2	2	-	-	-	-	-	2	-	2	2	-	-
C111.6	2	2	2	2	-	-	-	-	-	2	-	2	2	-	-
<b>C111</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	-	-	-	-	-	<b>2</b>	-	<b>2</b>	<b>2</b>	-	-

  
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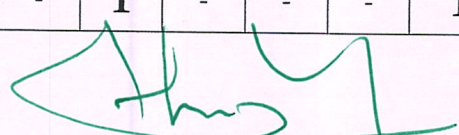
**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
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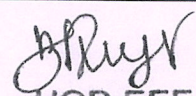
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
BE8252	BASIC CIVIL AND MECHANICAL ENGINEERING	<b>C112.1:</b> Appreciate the Civil and Mechanical Engineering components of Projects.
		<b>C112.2:</b> Explain the usage of construction material and proper selection of construction materials.
		<b>C112.3:</b> Measure distances and area by surveying.
		<b>C112.4:</b> Identify the components used in power plant cycle.
		<b>C112.5:</b> Demonstrate working principles of petrol and diesel engine.
		<b>C112.6:</b> Elaborate the components of refrigeration and Air conditioning cycle.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C112.1	2	2	2	2	-	1	-	-	-	1	-	1	1	-	-
C112.2	2	2	2	2	-	1	-	-	-	1	-	1	1	-	-
C112.3	2	2	2	2	-	1	-	-	-	1	-	1	1	-	-
C112.4	2	2	2	2	-	1	-	-	-	1	-	1	1	-	-
C112.5	2	2	2	2	-	1	-	-	-	1	-	1	1	-	-
C112.6	2	2	2	2	-	1	-	-	-	1	-	1	1	-	-
<b>C112</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>

  
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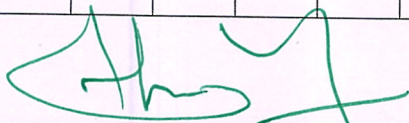
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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

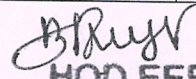
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
<b>EE8251</b>	<b>CIRCUIT THEORY</b>	<b>C113.1:</b> Discuss the different laws of Electric circuits and analysis of AC & DC circuits.
		<b>C113.2:</b> Solve the AC and DC circuits using various network theorems and reduction techniques.
		<b>C113.3:</b> Solve the Series and Parallel resonance circuits, analyze the performance of single & double tuned circuits.
		<b>C113.4:</b> Explain the resonance phenomenon in different coupled tuned circuits.
		<b>C113.5:</b> Discuss the transient response of DC circuits and the characterization of different parameter sets.
		<b>C113.6:</b> Summarize the three phase circuits with help of voltage and current phasor diagrams.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C113.1	3	2	2	1	1	-	-	-	-	1	-	1	2	1	-
C113.2	3	2	2	1	1	-	-	-	-	1	-	1	2	1	-
C113.3	3	2	2	1	1	-	-	-	-	1	-	1	2	1	-
C113.4	3	2	2	1	1	-	-	-	-	1	-	1	2	1	-
C113.5	3	2	2	1	1	-	-	-	-	1	-	1	2	1	-
C113.6	3	2	2	1	1	-	-	-	-	1	-	1	2	1	-
<b>C113</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	-	-	-	-	<b>1</b>	-	<b>1</b>	<b>2</b>	<b>1</b>	-

  
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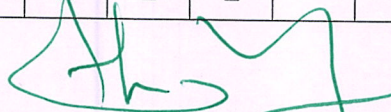
**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

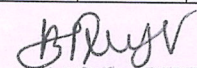
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
<b>GE8291</b>	<b>ENVIRONMENTAL SCIENCE AND ENGINEERING</b>	<b>C114.1:</b> Summarize the values, threats, conservation of biodiversity and ecosystems.
		<b>C114.2:</b> Describe the sources, effects, control measures of different types of pollution, and solid waste management.
		<b>C114.3:</b> Associate the effects of exploitation of Natural resources on environment.
		<b>C114.4:</b> Summarize the water conservation methods and various environmental acts for environmental sustainability.
		<b>C114.5:</b> Explain the effect of Human population and role of IT in environment and human health.
		<b>C114.6:</b> Discuss scientific, technological, economic and social solutions to environmental problems.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C114.1	2	2	-	-	2	2	1	1	-	-	-	1	-	-	-
C114.2	2	2	-	-	2	2	1	1	-	-	-	1	-	-	-
C114.3	2	2	-	-	2	2	1	1	-	-	-	1	-	-	-
C114.4	2	2	-	-	2	2	1	1	-	-	-	1	-	-	-
C114.5	2	2	-	-	2	2	1	1	-	-	-	1	-	-	-
C114.6	2	2	-	-	2	2	1	1	-	-	-	1	-	-	-
<b>C114</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>

  
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**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
<b>GE8261</b>	<b>ENGINEERING PRACTICES LABORATORY</b>	<b>C115.1:</b> Fabricate carpentry components and pipe connections including plumbing works.
		<b>C115.2:</b> Use welding equipments to join the structures.
		<b>C115.3:</b> Carry out the basic machining operations.
		<b>C115.4:</b> Make the models using sheet metal works.
		<b>C115.5:</b> Illustrate on centrifugal pump, Air conditioner, operations of smithy, foundry and fittings.
		<b>C115.6:</b> Carry out basic home electrical works and appliances.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C115.1	3	2	2	2	-	2	-	-	1	1	-	1	2	2	1
C115.2	3	2	2	2	-	2	-	-	1	1	-	1	2	2	1
C115.3	3	2	2	2	-	2	-	-	1	1	-	1	2	2	1
C115.4	3	2	2	2	-	2	-	-	1	1	-	1	2	2	1
C115.5	3	2	2	2	-	2	-	-	1	1	-	1	2	2	1
C115.6	3	2	2	2	-	2	-	-	1	1	-	1	2	2	1
<b>C115</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>1</b>

  
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**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8261	ELECTRIC CIRCUITS LABORATORY	<b>C116.1:</b> Analysis of various circuit theorems and concepts in engineering applications.
		<b>C116.2:</b> Review of various simulation tools and demonstrate with various circuits.
		<b>C116.3:</b> Exhibit ethical Principles in engineering Practices.
		<b>C116.4:</b> Perform task an individual and or team member to manage the task in time.
		<b>C116.5:</b> Express the Engineering activities with effective Presentation and report.
		<b>C116.6:</b> Interpret the findings with appropriate technological /research citation.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C116.1	3	2	2	2	2	-	-	-	2	2	-	2	2	2	-
C116.2	3	2	2	2	2	-	-	-	2	2	-	2	2	2	-
C116.3	3	2	2	2	2	-	-	-	2	2	-	2	2	2	-
C116.4	3	2	2	2	2	-	-	-	2	2	-	2	2	2	-
C116.5	3	2	2	2	2	-	-	-	2	2	-	2	2	2	-
C116.6	3	2	2	2	2	-	-	-	2	2	-	2	2	2	-
<b>C116</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>

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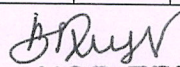
**II YEAR/III SEMESTER**  
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
MA8353	TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS	<b>C201.1:</b> Discuss the basic concepts of PDE for solving standard partial differential equations.
		<b>C201.2:</b> Demonstrates the Fourier series analysis which is central to many applications in engineering.
		<b>C201.3:</b> Explain the Fourier series techniques in solving heat flow problems used in various situations.
		<b>C201.4:</b> Develop an understanding of the Fourier transform techniques used in wide variety of situations.
		<b>C201.5:</b> Comprehend the effective mathematical tools for the solutions of partial differential equations that model several physical processes.
		<b>C201.6:</b> Describe Z transform techniques for discrete time systems.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C201.1	3	3	2	2	-	-	-	-	-	2	-	2	-	2	-
C201.2	3	3	2	2	-	-	-	-	-	2	-	2	-	2	-
C201.3	3	3	2	2	-	-	-	-	-	2	-	2	-	2	-
C201.4	3	3	2	2	-	-	-	-	-	2	-	2	-	2	-
C201.5	3	3	2	2	-	-	-	-	-	2	-	2	-	2	-
C201.6	3	3	2	2	-	-	-	-	-	2	-	2	-	2	-
<b>C201</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>

  
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**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8351	DIGITAL LOGIC CIRCUITS	<b>C202.1:</b> Comprehend various number systems and simplify the logical expressions using Boolean functions.
		<b>C202.2:</b> Explain about the combinational circuits.
		<b>C202.3:</b> Design various synchronous sequential circuits.
		<b>C202.4:</b> Develop the asynchronous sequential circuits.
		<b>C202.5:</b> Describe about PLDs and FPGA.
		<b>C202.6:</b> Demonstrate the digital simulation for development of application oriented logic circuits.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C202.1	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1
C202.2	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1
C202.3	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1
C202.4	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1
C202.5	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1
C202.6	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1
<b>C202</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>1</b>

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**REGULATION 2017**

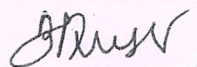
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8391	ELECTROMAGNETIC THEORY	<b>C203.1:</b> Comprehend the basic mathematical concepts related to electromagnetic vector field.
		<b>C203.2:</b> Discuss the basic concepts about electrostatic fields, electrical potential, energy density and their applications.
		<b>C203.3:</b> Explain the magneto static fields, magnetic flux density, vectorpotential and its applications.
		<b>C203.4:</b> Describe the different methods of emf generation and Maxwell's equations.
		<b>C203.5:</b> Demonstrate the basic concepts of electromagnetic waves and characterizing parameter.
		<b>C203.6:</b> Illustrate and compute Electromagnetic fields and apply them for design and analysis of electrical equipment and systems.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C203.1	3	2	2	1	1	-	1	-	-	1	-	1	3	1	-
C203.2	3	2	2	1	1	-	1	-	-	1	-	1	3	1	-
C203.3	3	2	2	1	1	-	1	-	-	1	-	1	3	1	-
C203.4	3	2	2	1	1	-	1	-	-	1	-	1	3	1	-
C203.5	3	2	2	1	1	-	1	-	-	1	-	1	3	1	-
C203.6	3	2	2	1	1	-	1	-	-	1	-	1	3	1	-
<b>C203</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>-</b>

  
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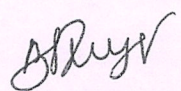
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8301	ELECTRICAL MACHINES - I	<b>C204.1:</b> Analyze the magnetic circuits.
		<b>C204.2:</b> Acquire the knowledge in constructional details of transformers.
		<b>C204.3:</b> Comprehend the concepts of electromechanical energy conversion.
		<b>C204.4:</b> Gain the knowledge in working principles of DC Generator.
		<b>C204.5:</b> Infer the knowledge in working principles of DC Motor.
		<b>C204.6:</b> Summarize the knowledge in various losses taking place in D.C. Machines.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C204.1	3	3	2	1	-	-	-	-	-	1	-	1	3	2	-
C204.2	3	3	2	1	-	-	-	-	-	1	-	1	3	1	-
C204.3	3	3	2	1	-	-	-	-	-	1	-	1	3	1	-
C204.4	3	3	2	1	-	-	-	-	-	1	-	1	3	3	-
C204.5	3	3	2	1	-	-	-	-	-	1	-	1	3	3	-
C204.6	3	3	2	1	-	-	-	-	-	1	-	1	3	3	-
<b>C204</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>1</b>	-	-	-	-	-	<b>1</b>	-	<b>1</b>	<b>3</b>	<b>2</b>	-

  
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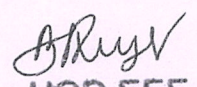
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EC8353	ELECTRON DEVICES AND CIRCUITS	<b>C205.1:</b> Comprehend the structure of basic electronic devices.
		<b>C205.2:</b> Explain about the active and passive circuit elements.
		<b>C205.3:</b> Describe the operation and applications of transistor like BJT and FET.
		<b>C205.4:</b> Illustrate the characteristics of amplifier gain and frequency response.
		<b>C205.5:</b> Demonstrate the required functionality of positive and negative feedback systems.
		<b>C205.6:</b> Discuss the design and analysis of oscillators.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C205.1	2	2	2	1	1	-	-	-	-	1	-	1	2	1	-
C205.2	2	2	2	1	1	-	-	-	-	1	-	1	2	1	-
C205.3	2	2	2	1	1	-	-	-	-	1	-	1	2	1	-
C205.4	2	2	2	1	1	-	-	-	-	1	-	1	2	1	-
C205.5	2	2	2	1	1	-	-	-	-	1	-	1	2	1	-
C205.6	2	2	2	1	1	-	-	-	-	1	-	1	2	1	-
<b>C205</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	-	-	-	-	<b>1</b>	-	<b>1</b>	<b>2</b>	<b>1</b>	-

  
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**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
ME8792	POWER PLANT ENGINEERING	<b>C206.1:</b> Explain the layout, construction and working of the components inside a thermal power plant.
		<b>C206.2:</b> Describe about the layout, construction and working of the components inside a Diesel, Gas and Combined cycle power plants.
		<b>C206.3:</b> Demonstrate the layout, construction and working of the components inside nuclear power plants.
		<b>C206.4:</b> Illustrate the layout, construction and working of the components inside Renewable energy power plants.
		<b>C206.5:</b> Discuss the applications of power plants.
		<b>C206.6:</b> Explain about power plant economics and environmental hazards and estimate the costs of electrical energy production.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C206.1	2	2	2	2	-	2	2	-	-	2	-	-	2	-	-
C206.2	2	2	2	2	-	2	2	-	-	2	-	-	2	-	-
C206.3	2	2	2	2	-	2	2	-	-	2	-	-	2	-	-
C206.4	2	2	2	2	-	2	2	-	-	2	-	-	2	-	-
C206.5	2	2	2	2	-	2	2	-	-	2	-	-	2	-	-
C206.6	2	2	2	2	-	2	2	-	-	2	-	-	2	-	-
<b>C206</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	-	<b>2</b>	<b>2</b>	-	-	<b>2</b>	-	-	<b>2</b>	-	-

*(Signature)*  
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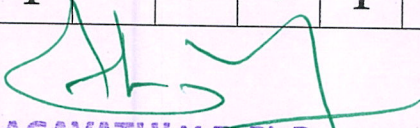
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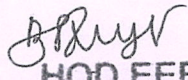
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EC8311	ELECTRONICS LABORATORY	<b>C207.1:</b> Describe about the characteristics of Semiconductor diode and Zener diode and NPN Transistor.
		<b>C207.2:</b> Discuss the characteristics of JFET and UJT and draw the equivalent circuit and generation of saw tooth waveforms.
		<b>C207.3:</b> Demonstrate about the characteristics of photo diode & photo transistor, light activated relay circuit.
		<b>C207.4:</b> Design the RC phase shift and LC oscillators.
		<b>C207.5:</b> Explain about the Single Phase half-wave and full wave rectifiers and passive filters.
		<b>C207.6:</b> Structure the Differential amplifiers using FET and CRO.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C207.1	3	2	1	1	1	-	-	-	1	1	-	1	2	-	-
C207.2	3	2	1	1	1	-	-	-	1	1	-	1	2	-	-
C207.3	3	2	1	1	1	-	-	-	1	1	-	1	2	-	-
C207.4	3	2	1	1	1	-	-	-	1	1	-	1	2	-	-
C207.5	3	2	1	1	1	-	-	-	1	1	-	1	2	-	-
C207.6	3	2	1	1	1	-	-	-	1	1	-	1	2	-	-
<b>C207</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	-	-	-	<b>1</b>	<b>1</b>	-	<b>1</b>	<b>2</b>	-	-

  
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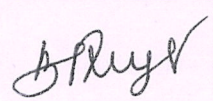
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8311	ELECTRICAL MACHINES LABORATORY-I	<b>C208.1:</b> Comprehend the open circuit and load characteristics of DC shunt and compound generator.
		<b>C208.2:</b> Explain about the load test on types of DC motor.
		<b>C208.3:</b> Demonstrate about the Swinburne's test and speed control of DC shunt motor.
		<b>C208.4:</b> Determine the performance of DC motor - generator set using Hopkinson's test.
		<b>C208.5:</b> Experiment the load test and open circuit and short circuit test on single-phase transformer and three phase transformers and its losses.
		<b>C208.6:</b> Describe the starters and 3-phase transformers connections.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C208.1	3	2	2	2	-	-	-	-	2	2	-	1	2	-	-
C208.2	3	2	2	2	-	-	-	-	2	2	-	1	2	-	-
C208.3	3	2	2	2	-	-	-	-	2	2	-	1	2	-	-
C208.4	3	2	2	2	-	-	-	-	2	2	-	1	2	-	-
C208.5	3	2	2	2	-	-	-	-	2	2	-	1	2	-	-
C208.6	3	2	2	2	-	-	-	-	2	2	-	1	2	-	-
<b>C208</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	-	-	-	-	<b>2</b>	<b>2</b>	-	<b>1</b>	<b>2</b>	-	-

  
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**II YEAR/IV SEMESTER**  
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
MA8491	NUMERICAL METHODS	<b>C209.1:</b> Comprehend the basic concepts of solving algebraic and transcendental equations.
		<b>C209.2:</b> Discuss the numerical techniques of interpolation in various intervals in real life situations.
		<b>C209.3:</b> Explain the numerical techniques of differentiation.
		<b>C209.4:</b> Develop an understanding of the integration which plays an important role in engineering and technology disciplines.
		<b>C209.5:</b> Carry out the various techniques and methods of solving ordinary differential equations.
		<b>C209.6:</b> Describe about the various techniques and methods of solving various types of partial differential equations.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C209.1	3	3	3	2	-	-	-	-	-	2	-	2	-	2	-
C209.2	3	3	3	2	-	-	-	-	-	2	-	2	-	2	-
C209.3	3	3	3	2	-	-	-	-	-	2	-	2	-	2	-
C209.4	3	3	3	2	-	-	-	-	-	2	-	2	-	2	-
C209.5	3	3	3	2	-	-	-	-	-	2	-	2	-	2	-
C209.6	3	3	3	2	-	-	-	-	-	2	-	2	-	2	-
<b>C209</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	-	-	-	-	-	<b>2</b>	-	<b>2</b>	-	<b>2</b>	-

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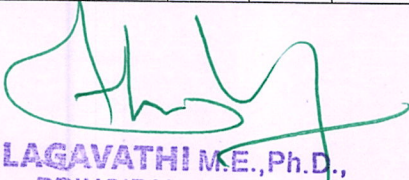
**REGULATION 2017**

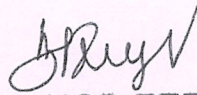
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8401	ELECTRICAL MACHINES - II	<b>C210.1:</b> Construe the construction and working principle of Synchronous generator.
		<b>C210.2:</b> Interpret the MMF curves and armature windings.
		<b>C210.3:</b> Acquire knowledge on Synchronous motor.
		<b>C210.4:</b> Infer the construction and working principle of Three phase Induction Motor.
		<b>C210.5:</b> Construe the construction and working principle of Special Machines.
		<b>C210.6:</b> Predetermine the performance characteristics of Synchronous Machines.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C210.1	3	3	2	2	-	-	-	-	-	2	-	1	3	2	-
C210.2	3	3	2	2	-	-	-	-	-	2	-	1	3	1	-
C210.3	3	3	2	2	-	-	-	-	-	2	-	1	3	1	-
C210.4	3	3	2	2	-	-	-	-	-	2	-	1	3	3	-
C210.5	3	3	2	2	-	-	-	-	-	2	-	1	3	3	-
C210.6	3	3	2	2	-	-	-	-	-	2	-	1	3	3	-
<b>C210</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	-	-	-	-	-	<b>2</b>	-	<b>1</b>	<b>3</b>	<b>2</b>	-

  
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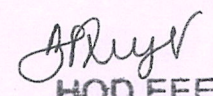
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8402	TRANSMISSION AND DISTRIBUTION	<b>C211.2</b> Explain the importance and the functioning of transmission line parameters.
		<b>C211.2:</b> Describe the concepts of Lines and Insulators.
		<b>C211.3:</b> Discuss about the performance of Transmission lines.
		<b>C211.4:</b> Demonstrate the importance of distribution of the electric power in power system.
		<b>C211.5:</b> Illustrate the basic concepts of Underground Cabilities.
		<b>C211.6:</b> Implement the function of different components used in Transmission and Distribution levels of power system and modelling of these components.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C211.1	3	3	3	2	-	-	-	-	-	2	-	1	2	1	-
C211.2	3	3	3	2	-	-	-	-	-	2	-	1	2	1	-
C211.3	3	3	3	2	-	-	-	-	-	2	-	1	2	1	-
C211.4	3	3	3	2	-	-	-	-	-	2	-	1	2	1	-
C211.5	3	3	3	2	-	-	-	-	-	2	-	1	2	1	-
C211.6	3	3	3	2	-	-	-	-	-	2	-	1	2	1	-
<b>C211</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	-	-	-	-	-	<b>2</b>	-	<b>1</b>	<b>2</b>	<b>1</b>	-

  
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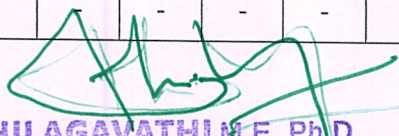
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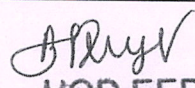
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8403	MEASUREMENTS AND INSTRUMENTATION	<b>C212.1:</b> Describe the Basic functional elements of instrumentation.
		<b>C212.2:</b> Comprehend the Fundamentals of electrical and electronic instruments.
		<b>C212.3:</b> Discuss various measurement techniques.
		<b>C212.4:</b> Demonstrate on Various storage and display devices.
		<b>C212.5:</b> Explain the concepts of Various transducers and the data acquisition systems.
		<b>C212.6:</b> Design and analyze electrical and electronic Instruments and understand the operational features of display Devices and Data Acquisition System.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C212.1	2	2	2	1	-	-	-	-	-	1	-	1	2	-	-
C212.2	2	2	2	1	-	-	-	-	-	1	-	1	2	-	-
C212.3	2	2	2	1	-	-	-	-	-	1	-	1	2	-	-
C212.4	2	2	2	1	-	-	-	-	-	1	-	1	2	-	-
C212.5	2	2	2	1	-	-	-	-	-	1	-	1	2	-	-
C212.6	2	1	2	1	-	-	-	-	-	1	-	1	2	-	-
<b>C212</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	-	-	-	-	-	<b>1</b>	-	<b>1</b>	<b>2</b>	-	-

  
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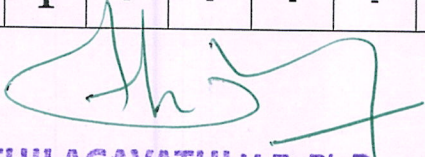
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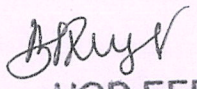
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8451	LINEAR INTEGRATED CIRCUITS AND APPLICATIONS	<b>C213.1:</b> Explain about the concept of IC fabrication procedure.
		<b>C213.2:</b> Analyze the characteristics of Op-Amp.
		<b>C213.3:</b> Describe the importance of Signal analysis using Op-amp based circuits.
		<b>C213.4:</b> Illustrate the Functional blocks and the applications of special ICs like Timers, PLL circuits, regulator Circuits.
		<b>C213.5:</b> Demonstrate and acquire knowledge on the Applications of Op-amp.
		<b>C213.6:</b> Design and analyse the linear integrated circuits and their Fabrication and Application.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C213.1	2	2	1	1	1	-	-	-	-	1	-	1	2	-	-
C213.2	2	2	1	1	1	-	-	-	-	1	-	1	2	-	-
C213.3	2	2	1	1	1	-	-	-	-	1	-	1	2	-	-
C213.4	2	2	1	1	1	-	-	-	-	1	-	1	2	-	-
C213.5	2	2	1	1	1	-	-	-	-	1	-	1	2	-	-
C213.6	2	2	1	1	1	-	-	-	-	1	-	1	2	-	-
<b>C213</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>-</b>

  
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**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
IC8451	CONTROL SYSTEMS	<b>C214.1:</b> Develop various representations of system based on the knowledge of Mathematics Science and Engineering fundamentals.
		<b>C214.2:</b> Discuss the time domain and frequency domain analysis of various models of linear system.
		<b>C214.3:</b> Illustrate the characteristics of the system to develop mathematical model.
		<b>C214.4:</b> Design appropriate compensator for the given specifications.
		<b>C214.5:</b> Explain the solution for complex control problem.
		<b>C214.6:</b> Describe the use of PID controller in closed loop system.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C214.1	3	2	2	1	1	-	-	-	-	1	-	1	3	2	-
C214.2	3	2	2	1	1	-	-	-	-	1	-	1	3	2	-
C214.3	3	2	2	1	1	-	-	-	-	1	-	1	3	2	-
C214.4	3	2	2	1	1	-	-	-	-	1	-	1	3	2	-
C214.5	3	2	2	1	1	-	-	-	-	1	-	1	3	2	-
C214.6	3	2	2	1	1	-	-	-	-	1	-	1	3	2	-
<b>C214</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>-</b>

  
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**REGULATION 2017**

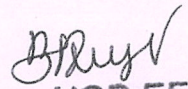
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8411	ELECTRICAL MACHINES  LABORATORY - II	<b>C215.1:</b> Describe and analyze EMF and MMF methods.
		<b>C215.2:</b> Analyze the characteristics of V and Inverted V curves.
		<b>C215.3:</b> Demonstrate about the importance of Synchronous machines.
		<b>C215.4:</b> Explain the load test on single and three-phase induction motor.
		<b>C215.5:</b> Discuss the importance of Induction Machines.
		<b>C215.6:</b> Comprehend on the separation of losses on induction motor.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C215.1	2	2	1	1	-	-	-	-	1	1	-	1	2	1	-
C215.2	2	2	1	1	-	-	-	-	1	1	-	1	2	1	-
C215.3	2	2	1	1	-	-	-	-	1	1	-	1	2	1	-
C215.4	2	2	1	1	-	-	-	-	1	1	-	1	2	1	-
C215.5	2	2	1	1	-	-	-	-	1	1	-	1	2	1	-
C215.6	2	2	1	1	-	-	-	-	1	1	-	1	2	1	-
<b>C215</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	-	-	-	-	<b>1</b>	<b>1</b>	-	<b>1</b>	<b>2</b>	<b>1</b>	-

  
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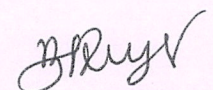
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8461	LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	<b>C216.1:</b> Experiment, test and characterize the circuit behavior with digital and analog ICs.
		<b>C216.2:</b> Comprehend and implement Boolean Functions.
		<b>C216.3:</b> Demonstrate the importance of code conversion.
		<b>C216.4:</b> Design and implement 4-bit shift registers.
		<b>C216.5:</b> Explain about the Application of Op-Amp.
		<b>C216.6:</b> Implement and design counters using specific counter IC.

**CO-PO MAPPING**

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

  
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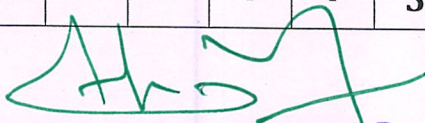
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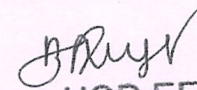
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8412	TECHNICAL SEMINAR	<b>C217.1:</b> Explain about the advanced industrial engineering developments.
		<b>C217.2:</b> Discuss about the various teaching aids such as overhead projectors, power point presentation and demonstrative models.
		<b>C217.3:</b> Identify and compare technical and practical issues related to the area of seminar.
		<b>C217.4:</b> Describe the preparation of a well organized report employing the elements of technical writing and critical thinking.
		<b>C217.5:</b> Discuss on the presentation of technical reports effectively.
		<b>C217.6:</b> Explain the methodology of attending the placement interviews with confidence.

**CO-PO MAPPING**

	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C217.1	-	-	-	-	-	-	-	-	3	2	1	-	-	-	-
C217.2	-	-	-	-	-	-	-	-	3	2	1	-	-	-	-
C217.3	-	-	-	-	-	-	-	-	3	2	1	-	-	-	-
C217.4	-	-	-	-	-	-	-	-	3	2	1	-	-	-	-
C217.5	-	-	-	-	-	-	-	-	3	2	1	-	-	-	-
C217.6	-	-	-	-	-	-	-	-	3	2	1	-	-	-	-
<b>C217</b>	-	-	-	-	-	-	-	-	<b>3</b>	<b>2</b>	<b>1</b>	-	-	-	-

  
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**III YEAR/V SEMESTER**  
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8501	POWER SYSTEM ANALYSIS	<b>C301.1:</b> Design the power system under steady state operating condition.
		<b>C301.2:</b> Explain and apply iterative techniques for power flow analysis.
		<b>C301.3:</b> Describe and carry out short circuit studies on power system.
		<b>C301.4:</b> Design and analyze stability problems in power system.
		<b>C301.5:</b> Discuss on the concepts of Fault analysis.
		<b>C301.6:</b> Analyze and describe the various power system components and carry out power flow, short circuit and stability studies.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C301.1	3	3	2	2	1	-	1	-	-	1	-	1	3	2	1
C301.2	3	3	2	2	1	-	1	-	-	1	-	1	3	2	1
C301.3	3	3	2	2	1	-	1	-	-	1	-	1	3	2	1
C301.4	3	3	2	2	1	-	1	-	-	1	-	1	3	2	1
C301.5	3	3	2	2	1	-	1	-	-	1	-	1	3	2	1
C301.6	3	3	2	2	1	-	1	-	-	1	-	1	3	2	1
<b>C301</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>

*(Signature)*  
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*(Signature)*  
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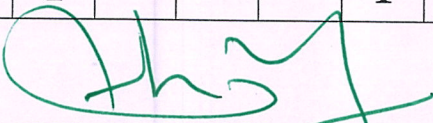
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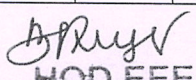
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8551	MICROPROCESSORS AND MICROCONTROLLERS	<b>C302.1:</b> Explain the Addressing modes & instruction set of 8085 & 8051.
		<b>C302.2:</b> Comprehend the need & use of Interrupt structure 8085& 8051.
		<b>C302.3:</b> Discuss the importance of Interfacing.
		<b>C302.4:</b> Demonstrate the architecture of Microprocessor and Microcontroller.
		<b>C302.5:</b> Compute the assembly language programme.
		<b>C302.6:</b> Develop the Microprocessor and Microcontroller based applications.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C302.1	2	2	2	1	1	-	-	-	1	1	-	1	3	2	1
C302.2	2	2	2	1	1	-	-	-	1	1	-	1	3	2	1
C302.3	2	2	2	1	1	-	-	-	1	1	-	1	3	2	1
C302.4	2	2	2	1	1	-	-	-	1	1	-	1	3	2	1
C302.5	2	2	2	1	1	-	-	-	1	1	-	1	3	2	1
C302.6	2	2	2	1	1	-	-	-	1	1	-	1	3	2	1
<b>C302</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>

  
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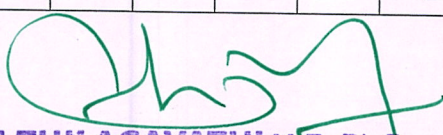
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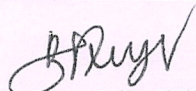
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8552	POWER ELECTRONICS	<b>C303.1:</b> Discuss about the different types of power semiconductor devices and their switching.
		<b>C303.2:</b> Explain about Operation, characteristics and performance parameters of controlled rectifiers.
		<b>C303.3:</b> Describe about Operation, switching techniques and basics topologies of DC-DC switching regulators.
		<b>C303.4:</b> Comprehend about Operation of AC voltage controller and various configurations.
		<b>C303.5:</b> Demonstrate the different modulation techniques of pulse width modulated inverters and to comprehend harmonic reduction methods.
		<b>C303.6:</b> Illustrate the converters for real time applications.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C303.1	3	2	2	1	1	-	1	-	-	1	-	1	3	2	1
C303.2	3	2	2	1	1	-	1	-	-	1	-	1	3	2	1
C303.3	3	2	2	1	1	-	1	-	-	1	-	1	3	2	1
C303.4	3	2	2	1	1	-	1	-	-	1	-	1	3	2	1
C303.5	3	2	2	1	1	-	1	-	-	1	-	1	3	2	1
C303.6	3	2	2	1	1	-	1	-	-	1	-	1	3	2	1
<b>C303</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>

  
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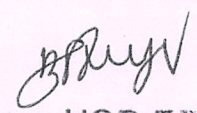
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8591	DIGITAL SIGNAL PROCESSING	<b>C304.1</b> Explain the importance of Fourier transform, digital filters and DSP processors.
		<b>C304.2:</b> Describe on Signals and systems & their mathematical representation.
		<b>C304.3:</b> Discuss and analyze the discrete time systems.
		<b>C304.4:</b> Comprehend the importance of distribution of the electric power in power system.
		<b>C304.5:</b> Demonstrate the types of filters and their design for digital implementation.
		<b>C304.6:</b> Illustrate on the programmability of digital signal processor & quantization effects.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C304.1	3	2	2	1	1	-	1	-	-	1	-	1	2	1	-
C304.2	3	2	2	1	1	-	1	-	-	1	-	1	2	1	-
C304.3	3	2	2	1	1	-	1	-	-	1	-	1	2	1	-
C304.4	3	2	2	1	1	-	1	-	-	1	-	1	2	1	-
C304.5	3	2	2	1	1	-	1	-	-	1	-	1	2	1	-
C304.6	3	2	2	1	1	-	1	-	-	1	-	1	2	1	-
<b>C304</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>-</b>

  
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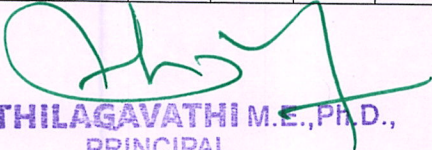
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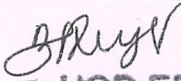
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
CS8392	OBJECT ORIENTED PROGRAMMING	<b>C305.1:</b> Develop Java programs using OOP principles.
		<b>C305.2:</b> Compute Java programs with the concept's inheritance and interfaces.
		<b>C305.3:</b> Design the Java applications using exceptions and I/O streams.
		<b>C305.4:</b> Describe on the Various storage and display devices.
		<b>C305.5:</b> Explain the Java applications with threads and generics classes.
		<b>C305.6:</b> Execute Interactive Java programs using swings.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C305.1	2	1	1	1	1	-	-	-	-	1	-	1	2	1	-
C305.2	2	1	1	1	1	-	-	-	-	1	-	1	2	1	-
C305.3	2	1	1	1	1	-	-	-	-	1	-	1	2	1	-
C305.4	2	1	1	1	1	-	-	-	-	1	-	1	2	1	-
C305.5	2	1	1	1	1	-	-	-	-	1	-	1	2	1	-
C305.6	2	1	1	1	1	-	-	-	-	1	-	1	2	1	-
<b>C305</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	-	-	-	-	<b>1</b>	-	<b>1</b>	<b>2</b>	<b>1</b>	-

  
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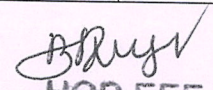
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
OMD551	BASICS OF BIOMEDICAL INSTRUMENTATION	<b>C306.1:</b> Explain the physiology of biomedical system.
		<b>C306.2:</b> Measure biomedical and physiological information.
		<b>C306.3:</b> Discuss the application of Electronics in diagnostics and therapeutic area.
		<b>C306.4:</b> Develop understanding of patient monitoring systems.
		<b>C306.5:</b> Get exposure to human body parameter measurement.
		<b>C306.6:</b> Study various transducers.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C306.1	3	3	2	2	1	-	-	-	-	1	-	-	3	-	-
C306.2	3	3	2	2	1	-	-	-	-	1	-	-	3	-	-
C306.3	3	3	2	2	1	-	-	-	-	1	-	-	3	-	-
C306.4	3	3	2	2	1	-	-	-	-	1	-	-	3	-	-
C306.5	3	3	2	2	1	-	-	-	-	1	-	-	3	-	-
C306.6	3	3	2	2	1	-	-	-	-	1	-	-	3	-	-
<b>C306</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>-</b>

  
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**REGULATION 2017**

**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8511	CONTROL AND INSTRUMENTATION LABORATORY	<b>C307.1:</b> Explain the control theory and apply them to electrical engineering problems.
		<b>C307.2:</b> Analyse the various types of converters.
		<b>C307.3:</b> Design the various types of compensators.
		<b>C307.4:</b> Illustrate the basic concepts of bridge networks.
		<b>C307.5:</b> Demonstrate the basics of signal conditioning circuits.
		<b>C307.6:</b> Develop the various simulation packages.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C307.1	3	2	2	2	2	2	-	-	2	2	-	-	2	1	-
C307.2	3	2	2	2	2	2	-	-	2	2	-	-	2	1	-
C307.3	3	2	2	2	2	2	-	-	2	2	-	-	2	1	-
C307.4	3	2	2	2	2	2	-	-	2	2	-	-	2	1	-
C307.5	3	2	2	2	2	2	-	-	2	2	-	-	2	1	-
C307.6	3	2	2	2	2	2	-	-	2	2	-	-	2	1	-
<b>C307</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	-	-	<b>2</b>	<b>2</b>	-	-	<b>2</b>	<b>1</b>	-

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**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
HS8581	PROFESSIONAL COMMUNICATION	<b>C308.1:</b> Explain about the corporate etiquette -organizing and managing professional events and will comprehend how reading will enhances their communicative competency.
		<b>C308.2:</b> Discuss about the making of effective communication and presentations.
		<b>C308.3:</b> Describe adequate soft skills required for the workplace.
		<b>C308.4:</b> Build good relation with Business correspondence.
		<b>C308:</b> Develop all around personalities with a mature outlook to function effectively in different circumstances.
		<b>C308.6:</b> Construct their confidence and help the attend interviews successfully.

**CO-PO MAPPING**

	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P0 10	P0 11	P0 12	PSO 1	PSO 2	PSO 3
C308.1	-	-	-	-	-	-	-	-	3	3	3	-	-	-	-
C308.2	-	-	-	-	-	-	-	-	3	3	3	-	-	-	-
C308.3	-	-	-	-	-	-	-	-	3	3	3	-	-	-	-
C308.4	-	-	-	-	-	-	-	-	3	3	3	-	-	-	-
C308.5	-	-	-	-	-	-	-	-	3	3	3	-	-	-	-
C308.6	-	-	-	-	-	-	-	-	3	3	3	-	-	-	-
<b>C308</b>	-	-	-	-	-	-	-	-	<b>3</b>	<b>3</b>	<b>3</b>	-	-	-	-

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**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
<b>CS8383</b>	<b>OBJECT ORIENTED PROGRAMMING LABORATORY</b>	<b>C309.1:</b> Discuss about the software development skills using java programming for real-world applications.
		<b>C309.2:</b> Develop and compute Java programs for simple applications that make use of classes, packages and interfaces.
		<b>C309.3:</b> Design and implement Java programs with arraylist, exception handling.
		<b>C309.4:</b> Explain and execute Java programs with file processing and multithreading.
		<b>C309.5:</b> Describe about the one vent-driven programming paradigm of Java.
		<b>C309.6:</b> Design applications using generic programming and event handling.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C309.1	2	2	2	2	1	-	-	-	1	1	-	1	2	-	2
C309.2	2	2	2	2	1	-	-	-	1	1	-	1	2	-	2
C309.3	2	2	2	2	1	-	-	-	1	1	-	1	2	-	2
C309.4	2	2	2	2	1	-	-	-	1	1	-	1	2	-	2
C309.5	2	2	2	2	1	-	-	-	1	1	-	1	2	-	2
C309.6	2	2	2	2	1	-	-	-	1	1	-	1	2	-	2
<b>C309</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>2</b>

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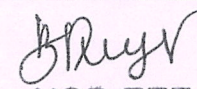
**III YEAR/VI SEMESTER**  
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8601	SOLID STATE DRIVES	<b>C310.1:</b> Comprehend and suggest a converter for solid state drive.
		<b>C310.2:</b> Discuss the selection of suitable drive for the given application.
		<b>C310.3:</b> Discuss about the steady state operation and transient dynamics of a motor load system.
		<b>C310.4:</b> Analyze the operation of the converter/chopper fed dc drive.
		<b>C310.5:</b> Explain the operation and performance of AC motor drive.
		<b>C310.6:</b> Demonstrate and design the current and speed controllers for a closed loop solid state DC motor drive.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C310.1	3	2	1	1	1	-	1	-	-	1	-	-	2	1	-
C310.2	3	2	1	1	1	-	1	-	-	1	-	-	2	1	-
C310.3	3	2	1	1	1	-	1	-	-	1	-	-	2	1	-
C310.4	3	2	1	1	1	-	1	-	-	1	-	-	2	1	-
C310.5	3	2	1	1	1	-	1	-	-	1	-	-	2	1	-
C310.6	3	2	1	1	1	-	1	-	-	1	-	-	2	1	-
<b>C310</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>-</b>

  
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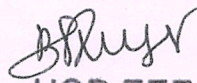
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8602	PROTECTION AND SWITCHGEAR	<b>C311.1:</b> Describe and analyze Electromagnetic and Static Relays.
		<b>C311.2:</b> Discuss about the selection of suitable circuit breaker for the system.
		<b>C311.3:</b> Explain the causes of abnormal operating conditions of the apparatus and system.
		<b>C311.4:</b> Comprehend the characteristics and functions of relays and protection schemes.
		<b>C311.5:</b> Demonstrate about the apparatus protection, static and numerical relays.
		<b>C311.6:</b> Illustrate the functioning of circuit breaker.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P0 10	P0 11	P0 12	PSO 1	PSO 2	PSO 3
C311.1	3	3	2	1	-	-	1	-	-	1	-	1	3	2	-
C311.2	3	3	2	1	-	-	1	-	-	1	-	1	3	2	-
C311.3	3	3	2	1	-	-	1	-	-	1	-	1	3	2	-
C311.4	3	3	2	1	-	-	1	-	-	1	-	1	3	2	-
C311.5	3	3	2	1	-	-	1	-	-	1	-	1	3	2	-
C311.6	3	3	2	1	-	-	1	-	-	1	-	1	3	2	-
<b>C311</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>1</b>	-	-	<b>1</b>	-	-	<b>1</b>	-	<b>1</b>	<b>3</b>	<b>2</b>	-

  
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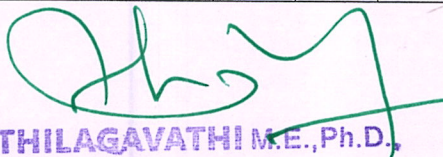
## REGULATION 2017

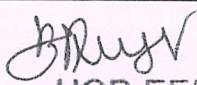
### B.E. EEE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8691	EMBEDDED SYSTEMS	<b>C312.1</b> Explain and analyze Embedded systems.
		<b>C312.2:</b> Discuss about the selection of suitable embedded system for a given application.
		<b>C312.3:</b> Describe about the various Embedded Development Strategies.
		<b>C312.4:</b> Comprehend on the concept of bus Communication in processors.
		<b>C312.5:</b> Demonstrate on the various processor scheduling algorithms.
		<b>C312.6:</b> Explain about the basics of Real time operating system.

### CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C312.1	2	1	1	1	1	-	-	-	-	1	-	1	3	2	-
C312.2	2	1	1	1	1	-	-	-	-	1	-	1	3	2	-
C312.3	2	1	1	1	1	-	-	-	-	1	-	1	3	2	-
C312.4	2	1	1	1	1	-	-	-	-	1	-	1	3	2	-
C312.5	2	1	1	1	1	-	-	-	-	1	-	1	3	2	-
C312.6	2	1	1	1	1	-	-	-	-	1	-	1	3	2	-
<b>C312</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	-	-	-	-	<b>1</b>	-	<b>1</b>	<b>3</b>	<b>2</b>	-

  
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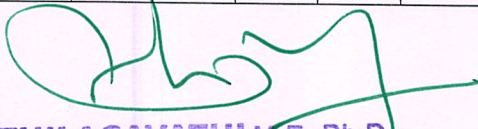
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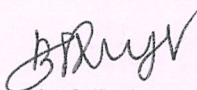
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
GE8075	INTELLECTUAL PROPERTY RIGHTS	<b>C313.1:</b> Explain the importance of Intellectual Property Rights, Which plays a vital role in advanced Technical and scientific disciplines.
		<b>C313.2:</b> Discuss the imparting IPR protections and regulations for further advancement and latest developments.
		<b>C313.3:</b> Evaluate the disseminate knowledge on patents, patent regime in India and abroad and registration aspects.
		<b>C313.4:</b> Describe the protect innovation in the form of intellectual property rights.
		<b>C313.5:</b> Calculate the research scholarship, and a spirit of inquiry, thereby generating new knowledge.
		<b>C313.6:</b> Provide and recognize an overview of the statutory, procedural and case law underlining these processes and their interplay with litigation.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C313.1	-	-	-	-	-	-	-	2	-	2	-	1	-	-	-
C313.2	-	-	-	-	-	-	-	2	-	2	-	1	-	-	-
C313.3	-	-	-	-	-	-	-	2	-	2	-	1	-	-	-
C313.4	-	-	-	-	-	-	-	2	-	2	-	1	-	-	-
C313.5	-	-	-	-	-	-	-	2	-	2	-	1	-	-	-
C313.6	-	-	-	-	-	-	-	2	-	2	-	1	-	-	-
<b>C313</b>	-	-	-	-	-	-	-	<b>2</b>	-	<b>2</b>	-	<b>1</b>	-	-	-

  
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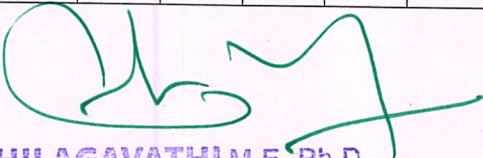
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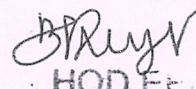
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8005	SPECIAL ELECTRICAL MACHINES	<b>C314.1:</b> Comprehend the construction, principle of operation, control and performance of stepping motors.
		<b>C314.2:</b> Explain about the construction, principle of operation of switched reluctance motor.
		<b>C314.3:</b> Discuss about the construction, principle of operation of permanent magnet brushless D.C. motors.
		<b>C314.4:</b> Describe the construction, principle of operation and performance of permanent magnet synchronous motors.
		<b>C314.5:</b> Demonstrate the construction, principle of operation and performance of other special Machines.
		<b>C314.6:</b> Explain about the selection of a special machine for a particular application.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C314.1	3	2	2	2	1	-	-	-	-	1	-	1	3	2	-
C314.2	3	2	2	2	1	-	-	-	-	1	-	1	3	2	-
C314.3	3	2	2	2	1	-	-	-	-	1	-	1	3	2	-
C314.4	3	2	2	2	1	-	-	-	-	1	-	1	3	2	-
C314.5	3	2	2	2	1	-	-	-	-	1	-	1	3	2	-
C314.6	3	2	2	2	1	-	-	-	-	1	-	1	3	2	-
<b>C314</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	-	-	-	-	<b>1</b>	-	<b>1</b>	<b>3</b>	<b>2</b>	-

  
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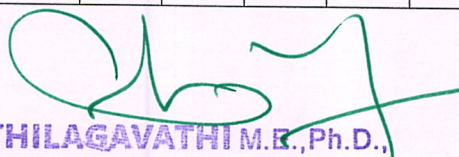
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**KAIKKURICHI, PUDUKKOTTAI- 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

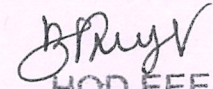
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8661	POWER ELECTRONICS  AND DRIVES  LABORATORY	<b>C315.1:</b> Explain the converter and inverter circuits and apply software for engineering problems.
		<b>C315.2:</b> Experiment about switching characteristics of the various switches.
		<b>C315.3:</b> Analyse about AC to DC converter circuits.
		<b>C315.4:</b> Illustrate about DC to AC circuits.
		<b>C315.5:</b> Comprehend on AC to AC converters.
		<b>C315.6:</b> Discuss about the simulation software for engineering applications.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C315.1	2	2	2	1	-	-	-	-	1	1	-	1	3	2	1
C315.2	2	2	2	1	-	-	-	-	1	1	-	1	3	2	1
C315.3	2	2	2	1	-	-	-	-	1	1	-	1	3	2	1
C315.4	2	2	2	1	-	-	-	-	1	1	-	1	3	2	1
C315.5	2	2	2	1	-	-	-	-	1	1	-	1	3	2	1
C315.6	2	2	2	1	-	-	-	-	1	1	-	1	3	2	1
<b>C315</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	-	-	-	-	<b>1</b>	<b>1</b>	-	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>

  
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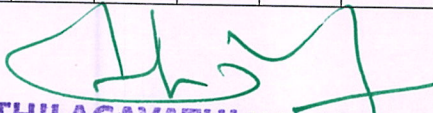
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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

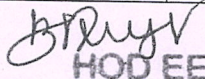
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8681	MICROPROCESSORS AND MICROCONTROLLERS LABORATOR	<b>C316.1:</b> Explain and apply computing platform and software for engineering problems.
		<b>C316.2:</b> Discuss the programming logics for code conversion.
		<b>C316.3:</b> Describe about the A/D and D/A converters.
		<b>C316.4:</b> Discuss the basics of serial communication.
		<b>C316.5:</b> Comprehend and impart knowledge in DC and AC motor interfacing.
		<b>C316.6:</b> Demonstrate the basics of software simulators.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C316.1	2	2	2	2	2	-	-	-	2	2	-	2	2	2	1
C316.2	2	2	2	2	2	-	-	-	2	2	-	2	2	2	1
C316.3	2	2	2	2	2	-	-	-	2	2	-	2	2	2	1
C316.4	2	2	2	2	2	-	-	-	2	2	-	2	2	2	1
C316.5	2	2	2	2	2	-	-	-	2	2	-	2	2	2	1
C316.6	2	2	2	2	2	-	-	-	2	2	-	2	2	2	1
<b>C316</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>

  
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**REGULATION 2017**

**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8611	MINIPROJECT	<b>C317.1:</b> Discuss about the Industrial exposure and real-world applications.
		<b>C317.2:</b> Develop innovative prototypes of ideas.
		<b>C317.3:</b> Develop adequate soft skills required for the workplace.
		<b>C317.4:</b> Explaining about the taking up their final year project work and find solution by formulating proper methodology.
		<b>C317.5:</b> Demonstrate about the communication and report effectively project related activities and findings.
		<b>C317.6:</b> Discuss about the working as individual or in a team in development of technical projects.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C317.1	2	2	2	2	-	2	2	-	2	2	2	2	3	2	2
C317.2	2	2	2	2	-	2	2	-	2	2	2	2	3	2	2
C317.3	2	2	2	2	-	2	2	-	2	2	2	2	3	2	2
C317.4	2	2	2	2	-	2	2	-	2	2	2	2	3	2	2
C317.5	2	2	2	2	-	2	2	-	2	2	2	2	3	2	2
C317.6	2	2	2	2	-	2	2	-	2	2	2	2	3	2	2
<b>C317</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>

*(Signature)*  
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*(Signature)*  
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**IV YEAR/ VII SEMESTER**

**REGULATION 2017**

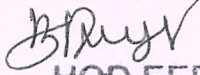
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8701	HIGH VOLTAGE ENGINEERING	<b>C401.1:</b> Comprehend the Transients in power system.
		<b>C401.2:</b> Discuss about the Generation and measurement of high voltage.
		<b>C401.3:</b> Discuss about the High voltage testing.
		<b>C401.4:</b> Explain about the various types of over voltages in power system.
		<b>C401.5:</b> Describe about the measurement of over voltages.
		<b>C401.6:</b> Demonstrate about the testing of power apparatus and insulation coordination.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C401.1	2	2	1	1	-	1	1	-	-	1	-	1	3	2	-
C401.2	2	2	1	1	-	1	1	-	-	1	-	1	3	2	-
C401.3	2	2	1	1	-	1	1	-	-	1	-	1	3	2	-
C401.4	2	2	1	1	-	1	1	-	-	1	-	1	3	2	-
C401.5	2	2	1	1	-	1	1	-	-	1	-	1	3	2	-
C401.6	2	2	1	1	-	1	1	-	-	1	-	1	3	2	-
<b>C401</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>-</b>

  
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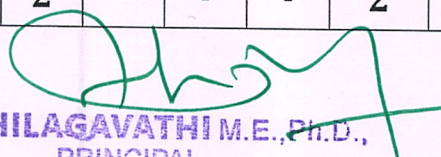
**REGULATION 2017**

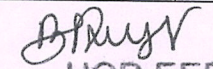
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8702	POWER SYSTEM OPERATION AND CONTROL	<b>C402.1:</b> Explain about the day-to-day operation of electric power system.
		<b>C402.2:</b> Analyze the control actions to be implemented on the system to meet the minute-to-minute variation of system demand.
		<b>C402.3:</b> Discuss about the significance of power system operation and control.
		<b>C402.4:</b> Describe about the real power-frequency interaction.
		<b>C402.5:</b> Demonstrate about the reactive power-voltage interaction.
		<b>C402.6:</b> Design SCADA and its application for real time operation.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C402.1	3	3	2	2	2	2	-	-	-	2	-	1	3	2	1
C402.2	3	3	2	2	2	2	-	-	-	2	-	1	3	2	1
C402.3	3	3	2	2	2	2	-	-	-	2	-	1	3	2	1
C402.4	3	3	2	2	2	2	-	-	-	2	-	1	3	2	1
C402.5	3	3	2	2	2	2	-	-	-	2	-	1	3	2	1
C402.6	3	3	2	2	2	2	-	-	-	2	-	1	3	2	1
<b>C402</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	-	-	-	<b>2</b>	-	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>

  
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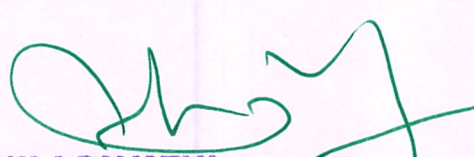
**REGULATION 2017**

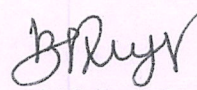
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8703	RENEWABLE ENERGY SYSTEMS	<b>C403.1</b> Explain and create awareness about renewable energy Sources and technologies.
		<b>C403.2:</b> Discuss about the adequate inputs on a variety of issues in harnessing renewable Energy.
		<b>C403.3:</b> Demonstrate about the current and possible future role of renewable energy sources.
		<b>C403.4:</b> Elucidate the various renewable energy resources and technologies and their applications.
		<b>C403.5:</b> Define the basics about biomass energy.
		<b>C403.6:</b> Describe about the solar energy.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C403.1	3	2	2	1	1	-	1	-	-	1	-	1	3	3	-
C403.2	3	2	2	1	1	-	1	-	-	1	-	1	3	3	-
C403.3	3	2	2	1	1	-	1	-	-	1	-	1	3	3	-
C403.4	3	2	2	1	1	-	1	-	-	1	-	1	3	3	-
C403.5	3	2	2	1	1	-	1	-	-	1	-	1	3	3	-
C403.6	3	2	2	1	1	-	1	-	-	1	-	1	3	3	-
<b>C403</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>-</b>

  
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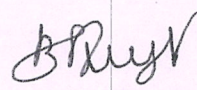
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
OCS752	INTRODUCTION TO C PROGRAMMING	<b>C404.1:</b> Explain about the structure of C program and its basics and data types.
		<b>C404.2:</b> Discuss about the arrays and its types.
		<b>C404.3:</b> Describe about the strings and its operation.
		<b>C404.4:</b> Explain about the functions and its types.
		<b>C404.5:</b> Explain about the structures, declaration and initialization.
		<b>C404.6:</b> Develop applications in C using functions and structures.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C404.1	3	3	2	1	1	-	-	-	-	1	-	1	3	2	2
C404.2	3	3	2	1	1	-	-	-	-	1	-	1	3	2	2
C404.3	3	3	2	1	1	-	-	-	-	1	-	1	3	2	2
C404.4	3	3	2	1	1	-	-	-	-	1	-	1	3	2	2
C404.5	3	3	2	1	1	-	-	-	-	1	-	1	3	2	2
C404.6	3	3	2	1	1	-	-	-	-	1	-	1	3	2	2
<b>C404</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>2</b>

  
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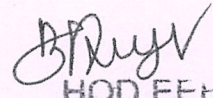
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EI8075	FIBRE OPTICS AND LASER INSTRUMENTS	<b>C405.1:</b> Elucidate about the basic concepts of optical fibers and their properties
		<b>C405.2:</b> Summarize the Industrial applications of optical fibres.
		<b>C405.3:</b> Describe about the concepts of Laser fundamentals.
		<b>C405.4:</b> Demonstrate about the industrial application of lasers.
		<b>C405.5:</b> Discuss about the holography and Medical applications of Lasers.
		<b>C405.6:</b> Explain about the ability to apply laser theory for the selection of lasers for a specific Industrial and medical application.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C405.1	3	3	2	1	1	-	-	-	-	1	-	1	3	2	1
C405.2	3	3	2	1	1	-	-	-	-	1	-	1	3	2	1
C405.3	3	3	2	1	1	-	-	-	-	1	-	1	3	2	1
C405.4	3	3	2	1	1	-	-	-	-	1	-	1	3	2	1
C405.5	3	3	2	1	1	-	-	-	-	1	-	1	3	2	1
C405.6	3	3	2	1	1	-	-	-	-	1	-	1	3	2	1
<b>C405</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>

  
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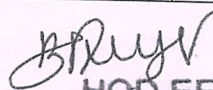
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8010	POWER SYSTEMS TRANSIENTS	<b>C406.1:</b> Explain about the generation of switching transients and their control.
		<b>C406.2:</b> Analyze switching and lightning transients.
		<b>C406.3:</b> Describe about the mechanism of lightning strokes and the production of lightning surges.
		<b>C406.4:</b> Discuss about the propagation, reflection and refraction of travelling waves.
		<b>C406.5:</b> Illustrate about voltage transients caused by faults.
		<b>C406.6:</b> Comprehend on circuit breaker action, load rejection on integrated power system.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C406.1	3	2	2	2	-	-	-	-	-	2	-	2	3	2	-
C406.2	3	2	2	2	-	-	-	-	-	2	-	2	3	2	-
C406.3	3	2	2	2	-	-	-	-	-	2	-	2	3	2	-
C406.4	3	2	2	2	-	-	-	-	-	2	-	2	3	2	-
C406.5	3	2	2	2	-	-	-	-	-	2	-	2	3	2	-
C406.6	3	2	2	2	-	-	-	-	-	2	-	2	3	2	-
<b>C406</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	-	-	-	-	-	<b>2</b>	-	<b>2</b>	<b>3</b>	<b>2</b>	-

  
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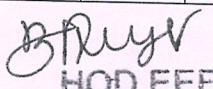
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8711	POWER SYSTEM SIMULATION LABORATORY	<b>C407.1:</b> Explain the power system planning and operational studies.
		<b>C407.2:</b> Discuss about the formation of Bus Admittance and Impedance Matrices and Solution of Networks.
		<b>C407.3:</b> Analyze the power flow using GS and NR method.
		<b>C407.4:</b> Discuss about the Symmetric and Unsymmetrical fault.
		<b>C407.5:</b> Comprehend about the economic dispatch.
		<b>C407.6:</b> Analyze the electromagnetic transients.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C407.1	3	3	3	3	2	-	-	-	2	2	2	1	3	2	1
C407.2	3	3	3	3	2	-	-	-	2	2	2	1	3	2	1
C407.3	3	3	3	3	2	-	-	-	2	2	2	1	3	2	1
C407.4	3	3	3	3	2	-	-	-	2	2	2	1	3	2	1
C407.5	3	3	3	3	2	-	-	-	2	2	2	1	3	2	1
C407.6	3	3	3	3	2	-	-	-	2	2	2	1	3	2	1
<b>C407</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>

  
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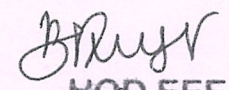
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8712	RENEWABLE ENERGY SYSTEMS LABORATORY	<b>C408.1:</b> Analyze Renewable energy systems.
		<b>C408.2:</b> Explain about the Renewable Energy Sources and technologies.
		<b>C408.3:</b> Discuss about providing adequate inputs on a variety of issues in harnessing Renewable Energy.
		<b>C408.4:</b> Simulate the various Renewable energy sources.
		<b>C408.5:</b> Describe about the recognizing current and possible future role of Renewable energy sources.
		<b>C408.6:</b> Discuss about the basics of Intelligent Controllers.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C408.1	3	3	3	3	2	-	-	-	2	2	-	2	3	2	2
C408.2	3	3	3	3	2	-	-	-	2	2	-	2	3	2	2
C408.3	3	3	3	3	2	-	-	-	2	2	-	2	3	2	2
C408.4	3	3	3	3	2	-	-	-	2	2	-	2	3	2	2
C408.5	3	3	3	3	2	-	-	-	2	2	-	2	3	2	2
C408.6	3	3	3	3	2	-	-	-	2	2	-	2	3	2	2
<b>C408</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>

  
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**IV YEAR/VIII SEMESTER**  
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8015	ELECTRIC ENERGY GENERATION, UTILIZATION AND CONSERVATION	<b>C409.1:</b> Comprehend the main aspects of generation, utilization and conservation.
		<b>C409.2:</b> Explain about identification of an appropriate method of heating for any particular industrial application.
		<b>C409.3:</b> Discuss about the evaluation of domestic wiring connection and debug any faults occurred.
		<b>C409.4:</b> Clarify about the construction of an electric connection for any domestic appliance like refrigerator as well as to design a battery charging circuit for a specific household application.
		<b>C409.5:</b> Illustrate about the realization of the appropriate type of electric supply system as well as to evaluate the performance of a traction unit.
		<b>C409.6:</b> Describe about the main aspects of Traction.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P0 10	P0 11	P0 12	PSO 1	PSO 2	PSO 3
C409.1	2	2	2	2	-	2	2	-	-	2	-	2	3	2	-
C409.2	2	2	2	2	-	2	2	-	-	2	-	2	3	2	-
C409.3	2	2	2	2	-	2	2	-	-	2	-	2	3	2	-
C409.4	2	2	2	2	-	2	2	-	-	2	-	2	3	2	-
C409.5	2	2	2	2	-	2	2	-	-	2	-	2	3	2	-
C409.6	2	2	2	2	-	2	2	-	-	2	-	2	3	2	-
<b>C409</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>-</b>

*(Signature)*  
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**REGULATION 2017**

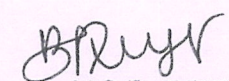
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE8018	MICROCONTROLLER BASED SYSTEM DESIGN	<b>C410.1:</b> Explain about understand and apply computing platform and software for engineering problems.
		<b>C410.2:</b> Comprehend the concepts of Architecture of PIC microcontroller.
		<b>C410.3:</b> Discuss on basics concept of Interrupts and timers.
		<b>C410.4:</b> Describe about the importance of Peripheral devices for data communication.
		<b>C410.5:</b> Demonstrate about the basics of sensor interfacing.
		<b>C410.6:</b> Illustrate the Architecture of ARM processors.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C410.1	3	3	3	2	-	-	-	-	-	2	-	1	2	2	2
C410.2	3	3	3	2	-	-	-	-	-	2	-	1	2	2	2
C410.3	3	3	3	2	-	-	-	-	-	2	-	1	2	2	2
C410.4	3	3	3	2	-	-	-	-	-	2	-	1	2	2	2
C410.5	3	3	3	2	-	-	-	-	-	2	-	1	2	2	2
C410.6	3	3	3	2	-	-	-	-	-	2	-	1	2	2	2
<b>C410</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>

  
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**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

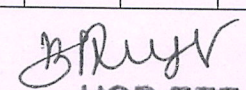
**REGULATION 2017**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
GE8076	Professional Ethics in Engineering	<b>C411.1:</b> Describe the moral, values and ethics and self-confidence of human values
		<b>C411.2:</b> Apply engineering ethics in society
		<b>C411.3:</b> Explain about engineers as responsible experimenters
		<b>C411.4:</b> Interpreted the ethical issues and the responsibilities and rights in the society
		<b>C411.5:</b> Understand the basic Environmental ethics and computer ethics Ethics and Human Values
		<b>C411.6:</b> Explain an awareness on safety and risk and Global Issues

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C411.1	3	2	2	2	-	-	-	2	-	2	1	1	-	-	-
C411.2	3	2	2	2	-	-	-	2	-	2	1	1	-	-	-
C411.3	3	2	2	2	-	-	-	2	-	2	1	1	-	-	-
C411.4	3	2	2	2	-	-	-	2	-	2	1	1	-	-	-
C411.5	3	2	2	2	-	-	-	2	-	2	1	1	-	-	-
C411.6	3	2	2	2	-	-	-	2	-	2	1	1	-	-	-
<b>C411</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>

  
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**HOD EEE**  
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**REGULATION 2017**

**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
<b>EE8811</b>	<b>PROJECT WORK</b>	<b>C412.1:</b> Explain about the current real life Industrial exposure.
		<b>C412.2:</b> Develop the ability to solve a specific problem right from its identification and literature review till the successful solution of the same.
		<b>C412.3:</b> Discuss about the preparation of the project reports and to face reviews and viva voce examination.
		<b>C412.4:</b> Describe about the acquisition of their own innovative proto type of ideas.
		<b>C412.5:</b> Illustrate about the communication and report effectively project related activities and findings.
		<b>C412.6:</b> Demonstrate on working as individual or in a team in development of technical projects.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C412.1	3	2	2	2	2	2	2	2	2	2	2	2	3	3	3
C412.2	3	2	2	2	2	2	2	2	2	2	2	2	3	3	3
C412.3	3	2	2	2	2	2	2	2	2	2	2	2	3	3	3
C412.4	3	2	2	2	2	2	2	2	2	2	2	2	3	3	3
C412.5	3	2	2	2	2	2	2	2	2	2	2	2	3	3	3
C412.6	3	2	2	2	2	2	2	2	2	2	2	2	3	3	3
<b>C412</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>

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**HOD/EEE**

**HOD EEE**  
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