



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

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



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| | | |
|-------------------|---|------------|
| Criteria 2 | Teaching-Learning and Evaluation | 350 |
|-------------------|---|------------|

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
ELECTRONICS AND COMMUNICATION
ENGINEERING
R2017



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE OUTCOMES – REGULATIONS 2017

I SEMESTER

**Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL**

**SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.**



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE OUTCOMES – REGULATIONS 2017- I SEMESTER

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

CO-PO MAPPING

| Cos | Pos | | | | | | | | | | | | PSO | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C101.1 | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 | - | 2 | - | - | - |
| 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 | - | - | - |
| C101 | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 | - | 2 | - | - | - |

*3-High correlation; 2- Medium correlation; 1-Low correlation

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COURSE OUTCOMES – REGULATIONS 2017

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

CO-PO MAPPING

| Cos | Pos | | | | | | | | | | | | 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 | - |
| C102 | 3 | 2 | 2 | 2 | - | - | - | - | - | 2 | - | 2 | - | 2 | - |

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COURSE OUTCOMES – REGULATIONS 2017

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

CO-PO MAPPING

| Cos | Pos | | | | | | | | | | | | 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 | - | - |
| C103 | 2 | 2 | 1 | 1 | - | - | 1 | - | - | 1 | - | 1 | 2 | - | - |

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COURSE OUTCOMES – REGULATIONS 2017

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

CO-PO MAPPING

| Cos | Pos | | | | | | | | | | | | PSO | | |
|---------------|----------|----------|----------|----------|-----|-----|----------|-----|-----|----------|------|----------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C104.1 | 3 | 2 | 1 | 1 | - | - | 1 | - | - | 1 | - | 1 | - | - | - |
| C104.2 | 3 | 2 | 1 | 1 | - | - | 1 | - | - | 1 | - | 1 | - | - | - |
| C104.3 | 3 | 2 | 1 | 1 | - | - | 1 | - | - | 1 | - | 1 | - | - | - |
| C104.4 | 3 | 2 | 1 | 1 | - | - | 1 | - | - | 1 | - | 1 | - | - | - |
| C104.5 | 3 | 2 | 1 | 1 | - | - | 1 | - | - | 1 | - | 1 | - | - | - |
| C104.6 | 3 | 2 | 1 | 1 | - | - | 1 | - | - | 1 | - | 1 | - | - | - |
| C104 | 3 | 2 | 1 | 1 | - | - | 1 | - | - | 1 | - | 1 | - | - | - |

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|-------------|--|---|
| GE8151 | PROBLEM SOLVING AND PYTHON PROGRAMMING | C105.1: Explain the basics of fundamentals of computing. |
| | | C105.2: Describe the basics of algorithmic problem solving |
| | | C105.3: Solve problems using Python conditionals and loops |
| | | C105.4: Define Python functions and use function calls to solve problems |
| | | C105.5: Apply Python data structures – lists, tuples, dictionaries to represent complex data |
| | | C105.6: Explain the importance of Read and write data from/to files in Python programs |

CO-PO MAPPING

| Cos | Pos | | | | | | | | | | | | PSO | | |
|---------------|----------|----------|----------|----------|----------|-----|-----|-----|-----|----------|------|----------|----------|-------|----------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | 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 |
| C105 | 2 | 2 | 2 | 1 | 1 | - | - | - | - | 1 | - | 1 | 1 | - | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

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

CO-PO MAPPING

| Cos | Pos | | | | | | | | | | | | PSO | | |
|---------------|----------|----------|----------|----------|-----|----------|----------|-----|----------|----------|----------|------|----------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C106.1 | 3 | 2 | 1 | 1 | - | 1 | 1 | - | 1 | 1 | 1 | - | 2 | - | - |
| C106.2 | 3 | 2 | 1 | 1 | - | 1 | 1 | - | 1 | 1 | 1 | - | 2 | - | - |
| C106.3 | 3 | 2 | 1 | 1 | - | 1 | 1 | - | 1 | 1 | 1 | - | 2 | - | - |
| C106.4 | 3 | 2 | 1 | 1 | - | 1 | 1 | - | 1 | 1 | 1 | - | 2 | - | - |
| C106.5 | 3 | 2 | 1 | 1 | - | 1 | 1 | - | 1 | 1 | 1 | - | 2 | - | - |
| C106.6 | 3 | 2 | 1 | 1 | - | 1 | 1 | - | 1 | 1 | 1 | - | 2 | - | - |
| C106 | 3 | 2 | 1 | 1 | - | 1 | 1 | - | 1 | 1 | 1 | - | 2 | - | - |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|---|---|
| GE8161 | PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY | C107.1: Develop algorithmic solutions to simple computational problems |
| | | C107.2: Design and execute simple Python programs. |
| | | C107.3: Solve programs in Python using conditionals and loops for solving problems. |
| | | C107.4: Apply functions to decompose a Python program. |
| | | C107.5: Analyze compound data using Python data structures |
| | | C107.6: Utilize Python packages in developing software applications. |

CO-PO MAPPING

| Cos | Pos | | | | | | | | | | | | PSO | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | 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 |
| C107 | 3 | 2 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 2 | - | 2 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|----------------------------------|--|
| BS8161 | PHYSICS AND CHEMISTRY LABORATORY | C108.1: Determine the Modulus of elasticity of materials and Coefficient of Viscosity of liquids. |
| | | C108.2: Determine the Thermal Conductivity of bad conductor using Lee's disc method. |
| | | C108.3: Determination of wavelength, and particle size using Laser and Determination of acceptance angle in an optical fiber. |
| | | C108.4: Calculate water quality parameters such as hardness, alkalinity of the given water sample. |
| | | C108.5: Estimate the amount of the given acids using Ph titrations. |
| | | C108.6: 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

| Cos | Pos | | | | | | | | | | | | PSO | | |
|---------------|----------|----------|----------|----------|----------|-----|-----|-----|----------|----------|------|----------|----------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | 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 | - |
| C108 | 3 | 2 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 2 | 1 | - |

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COURSE OUTCOMES – REGULATIONS 2017

II SEMESTER

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COURSE OUTCOMES – REGULATIONS 2017- II SEMESTER

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

CO-PO MAPPING

| COs | POs | | | | | | | | | | | | PSO | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | 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 | - | - | - |
| C109 | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 | - | 2 | - | - | - |

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COURSE OUTCOMES – REGULATIONS 2017

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

CO-PO MAPPING

| COs | POs | | | | | | | | | | | | PSO | | |
|-------------|----------|----------|----------|----------|-----|-----|-----|-----|-----|----------|------|----------|----------|----------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | 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 | - |
| C110 | 3 | 2 | 2 | 2 | - | - | - | - | - | 2 | - | 2 | 1 | 1 | - |

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE OUTCOMES – REGULATIONS 2017

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

CO-PO MAPPING

| COs | POs | | | | | | | | | | | | 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 | 2 | - |
| C111.2 | 2 | 2 | 2 | 2 | - | - | - | - | - | 2 | - | 2 | 2 | 2 | - |
| C111.3 | 2 | 2 | 2 | 2 | - | - | - | - | - | 2 | - | 2 | 2 | 2 | - |
| C111.4 | 2 | 2 | 2 | 2 | - | - | - | - | - | 2 | - | 2 | 2 | 2 | - |
| C111.5 | 2 | 2 | 2 | 2 | - | - | - | - | - | 2 | - | 2 | 2 | 2 | - |
| C111.6 | 2 | 2 | 2 | 2 | - | - | - | - | - | 2 | - | 2 | 2 | 2 | - |
| C111 | 2 | 2 | 2 | 2 | - | - | - | - | - | 2 | - | 2 | 2 | 2 | - |

*3-High correlation; 2- Medium correlation; 1-Low correlation

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|---|--|
| BE8254 | BASIC ELECTRICAL AND INSTRUMENTATION ENGINEERING | C112.1: Explain the concept of three phase power circuits and measurement. |
| | | C112.2: Comprehend the concepts in electrical generators, motors and transformers |
| | | C112.3: Explain the principles of DC electrical machines |
| | | C112.4: Explain the operation of AC electrical machines |
| | | C112.5: Summarize the characteristics of the measuring instruments and its errors |
| | | C112.6; Explain the working of different types of transducers, storage and display devices |

CO-PO MAPPING

| COs | POs | | | | | | | | | | | | PSO | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | 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 | - | - |
| C112 | 2 | 2 | 2 | 2 | - | 1 | - | - | - | 1 | - | 1 | 1 | - | - |

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|------------------|--|
| EC8251 | CIRCUIT ANALYSIS | C113.1: Explain the basic circuit elements, fundamental laws applied for circuits. |
| | | C113.2: Solve complex circuits using Mesh & Nodal Method |
| | | C113.3: Deduce the complicated circuits into simple circuits using Theorems |
| | | C113.4: Explain the concept of resonant theory and coupled circuits |
| | | C113.5: Solve the RLC Transient circuits with DC and AC inputs |
| | | C113.6: Compute the different types of two port parameters. |

CO-PO MAPPING

| COs | POs | | | | | | | | | | | | 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 | - |
| C113 | 3 | 2 | 2 | 1 | 1 | - | - | - | - | 1 | - | 1 | 2 | 1 | - |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|-----------------------|---|
| EC8252 | ELECTRONIC DEVICES | C114.1: Describe the principle and characteristics of semiconductor diode |
| | | C114.2: Analyze various transistor configurations |
| | | C114.3: Construct large signal modeling and small signal modeling of a transistor |
| | | C114.4: Describe the principle of operation and characteristics of special semiconductor diodes |
| | | C114.5: Discuss the operation of various semiconductor photo devices and power electronic devices |
| | | C114.6: Implement real time applications using electronic devices |

CO-PO MAPPING

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

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|---------------------------------|---|
| EC8261 | CIRCUITS AND DEVICES LABORATORY | C115.1: Analyze the characteristics of basic electronic devices |
| | | C115.2: Design RL and RC circuits |
| | | C115.3: Verify KVL & KCL |
| | | C115.4: Verify Thevinin & Norton theorems |
| | | C115.5: Verify the Super Position Theorems |
| | | C115.6: Explain the response of RLC circuit with different inputs |

CO-PO MAPPING

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

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|----------------------------------|---|
| GE8261 | ENGINEERING PRACTICES LABORATORY | C116.1: Fabricate carpentry components and pipe connections including plumbing works. |
| | | C116.2: Use welding equipments to join the structures |
| | | C116.3: Carry out the basic machining operations |
| | | C116.4: Make the models using sheet metal works |
| | | C116.5: Illustrate on centrifugal pump, Air conditioner, operations of smithy, foundary and fittings |
| | | C116.6: Carry out basic home electrical works and appliances |

CO-PO MAPPING

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

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III SEMESTER

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COURSE OUTCOMES – REGULATIONS 2017 - SEMESTER III

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|---|--|
| MA8352 | LINEAR ALGEBRA AND PARTIAL DIFFERENTIAL EQUATIONS | C201.1: Explain the fundamental concepts of advanced algebra and their role in modern mathematics and applied contexts. |
| | | C201.2: Demonstrate accurate and efficient use of advanced algebraic techniques. |
| | | C201.3: Describe matrix representation of a linear transformation. |
| | | C201.4: Demonstrate their mastery by solving non - trivial problems related to the concepts and by proving simple theorems about the statements proven by the text. |
| | | C201.5: Able to solve various types of partial differential equations. |
| | | C201.6: Able to solve engineering problems using Fourier series. |

CO-PO MAPPING

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

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|---|--|
| EC8393 | FUNDAMENTALS OF DATA STRUCTURES IN C | C202.1: Explain the features of C. |
| | | C202.2: Explain the basic concepts of functions, structures of C. |
| | | C202.3: Demonstrate linear and non-linear data structure operations using C |
| | | C202.4: Choose appropriate linear structure for any given data set non-linear data |
| | | C202.5: Choose appropriate non-linear data structure for any given data set |
| | | C202.6: Relate hashing concept and sorting algorithm for a given problem. |

CO-PO MAPPING

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

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|---------------------------|--|
| EC8351 | ELECTRONICS CIRCUITS-I | C203.1: Recall a structure of BJT |
| | | C203.2: Describe the need for biasing |
| | | C203.3: Summarize selection of operating point of transistor |
| | | C203.4: Demonstrate various biasing circuits for BJT, FET and MOSFET |
| | | C203.5: Relate bias compensation techniques |
| | | C203.6: Select low frequency and high frequency model |

CO-PO MAPPING

| COs | POs | | | | | | | | | | | | PSO | | |
|--------|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO 2 | PO 3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C203.1 | 3 | 2 | 2 | - | - | - | - | 1 | 1 | - | - | - | - | 2 | - |
| C203.2 | 3 | 2 | 2 | - | - | - | - | 1 | 1 | - | - | - | 1 | 2 | - |
| C203.3 | 3 | 2 | 2 | - | - | - | - | 1 | 1 | - | - | - | 1 | 2 | - |
| C203.4 | 3 | 2 | 2 | - | - | - | - | 1 | 1 | - | - | - | 1 | 2 | - |
| C203.5 | 3 | 2 | 2 | - | - | - | - | 1 | 1 | - | - | - | 1 | 2 | - |
| C203.6 | 3 | 3 | 2 | - | - | - | - | 1 | 1 | - | - | - | 1 | 3 | 1 |
| C203 | 2 | 2 | 2 | - | - | - | - | 1 | 1 | - | - | - | 1 | 2 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|---------------------------|--|
| EC8352 | SIGNALS AND SYSTEMS | C204.1: Represent basic continuous time and discrete time signals and systems. |
| | | C204.2: Explain signal properties such as periodicity, even or odd, energy or power and system properties such as causality, linearity and time invariance |
| | | C204.3: Find the response of an LTI System for a given continuous time or discrete time input signal |
| | | C204.4: Determine the frequency response of periodic and aperiodic continuous time signals and discrete time signals |
| | | C204.5: Convert a continuous time signal into discrete time signal and reconstruct the continuous time signal. |
| | | C204.6: Summarize the LTI system using z-Transforms |

CO-PO MAPPING

| COs | POs | | | | | | | | | | | | PSO | | |
|--------|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO 2 | PO 3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C204.1 | 3 | 3 | 2 | 2 | 2 | - | - | - | - | - | - | - | 2 | 2 | - |
| C204.2 | 3 | 3 | 2 | 2 | 2 | - | - | - | - | - | - | - | 2 | 2 | - |
| C204.3 | 3 | 3 | 2 | 2 | 2 | - | - | - | - | - | - | - | 2 | 2 | 1 |
| C204.4 | 3 | 3 | 2 | 2 | 2 | - | - | - | - | - | - | - | 2 | 2 | 1 |
| C204.5 | 3 | 3 | 2 | 2 | 2 | - | - | - | - | - | - | - | 2 | 2 | 1 |
| C204.6 | 3 | 3 | 2 | 2 | 2 | - | - | - | - | - | - | - | 2 | 2 | - |
| C204 | 3 | 3 | 2 | 2 | 2 | - | - | - | - | - | - | - | 2 | 2 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

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|-------------|---------------------|---|
| EC8392 | DIGITAL ELECTRONICS | C205.1: Understand the number system representations, base conversions, Boolean algebra, Canonical forms |
| | | C205.2: Apply the minimization technique for digital systems in many applications |
| | | C205.3: Apply and implement combinational using logic functions |
| | | C205.4: Explain and implement sequential circuits using logic functions |
| | | C205.5: Summarize the characteristics of memory and implement digital functions using PLDs |
| | | C205.6: Explain the logic families and their characteristics used in integrated circuits |

CO-PO MAPPING

| COs | POs | | | | | | | | | | | | PSO | | |
|---------------|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO 2 | PO 3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C205.1 | 3 | 2 | 1 | 1 | 2 | - | - | - | - | 2 | - | 1 | 2 | 2 | - |
| C205.2 | 3 | 2 | 1 | 1 | 2 | - | - | - | - | 2 | - | 1 | 2 | 2 | 1 |
| C205.3 | 3 | 2 | 1 | 1 | 2 | - | - | - | - | 2 | - | 1 | 2 | 2 | 1 |
| C205.4 | 3 | 2 | 1 | 1 | 2 | - | - | - | - | 2 | - | 1 | 2 | 2 | - |
| C205.5 | 3 | 2 | 1 | 1 | 2 | - | - | - | - | 2 | - | 1 | 2 | 2 | - |
| C205.6 | 3 | 2 | 1 | 1 | 2 | - | - | - | - | 2 | - | 1 | 2 | 2 | - |
| C205 | 3 | 2 | 1 | 1 | 2 | - | - | - | - | 2 | - | 1 | 2 | 2 | 1 |

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|-----------------|--|
| EC8391 | CONTROL SYSTEMS | C206.1: Illustrate closed loop control systems for stability and study state performance. |
| | | C206.2: Develop Pd, Pi and Pid controllers for giving control system model using matlab. |
| | | C206.3: Compute stability of linear systems using the routh array test and use this to generate control design constraints. |
| | | C206.4: Compute gain and phase margins from bode diagrams and Nyquist plots in terms of stability. |
| | | C206.5: Illustrate the state space model of a physical system and discuss the concepts of sampled data control system. |
| | | C206.6: Identify various transfer functions of digital control system using state variable models. |

CO-PO MAPPING

| COs | POs | | | | | | | | | | | | PSO | | |
|---------------|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO 2 | PO 3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C206.1 | 3 | 3 | 3 | 2 | 2 | 2 | - | - | - | 2 | - | 2 | 2 | 2 | - |
| C206.2 | 3 | 3 | 3 | 2 | 2 | 2 | - | - | - | 2 | - | 2 | 2 | 2 | 1 |
| C206.3 | 3 | 3 | 3 | 2 | 2 | 2 | - | - | - | 2 | - | 2 | 2 | 2 | - |
| C206.4 | 3 | 3 | 3 | 2 | 2 | 2 | - | - | - | 2 | - | 2 | 2 | 2 | - |
| C206.5 | 3 | 3 | 3 | 2 | 2 | 2 | - | - | - | 2 | - | 2 | 2 | 2 | - |
| C206.6 | 3 | 3 | 3 | 2 | 2 | 2 | - | - | - | 2 | - | 2 | 2 | 2 | 1 |
| C206 | 3 | 3 | 3 | 2 | 2 | 2 | - | - | - | 2 | - | 2 | 2 | 2 | 1 |

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|---|---|
| EC8381 | FUNDAMENTALS OF DATA STRUCTURES IN C LABORATORY | C207.1: Develop C programs for simple applications making use of basic construct |
| | | C207.2: Illustrate the appropriate linear and nonlinear data structures in problem solving |
| | | C207.3: Solve the problems using trees and Binary Search trees |
| | | C207.4; Choose appropriate searching and sorting algorithm for an application and implement it in a modularized way |
| | | C207.5: Capable to identify the appropriate data structure for given problem |
| | | C207.6: Implement functions and recursive functions in using C Programming |

CO-PO MAPPING

| COs | POs | | | | | | | | | | | | PSO | | |
|--------|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO 2 | PO 3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C207.1 | 3 | 3 | 3 | 3 | 2 | - | - | - | 1 | 1 | 1 | 1 | 2 | 3 | - |
| C207.2 | 3 | 3 | 3 | 3 | 2 | - | - | - | 1 | 1 | 1 | 1 | 2 | 3 | 2 |
| C207.3 | 3 | 3 | 3 | 3 | 2 | - | - | - | 1 | 1 | 1 | 1 | 2 | 3 | 2 |
| C207.4 | 3 | 3 | 3 | 3 | 2 | - | - | - | 1 | 1 | 1 | 1 | 2 | 3 | 2 |
| C207.5 | 3 | 3 | 3 | 3 | 2 | - | - | - | 1 | 1 | 1 | 1 | 2 | 3 | - |
| C207.6 | 3 | 3 | 3 | 3 | 2 | - | - | - | 1 | 1 | 1 | 1 | 2 | 3 | - |
| C207 | 3 | 3 | 3 | 3 | 2 | - | - | | 1 | 1 | 1 | 1 | 2 | 3 | 2 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|---------------------------------------|--|
| EC8361 | ANALOG AND DIGITAL CIRCUIT LABORATORY | C208.1: Design and Test rectifiers, filters and regulated power supplies |
| | | C208.2: Design and Test BJT/JFET amplifiers |
| | | C208.3: Differentiate cascade and cascade amplifiers |
| | | C208.4: Analyze the limitation in bandwidth of single stage and multi stage amplifier and measure CMRR in differential amplifier |
| | | C208.5: Simulate and analyze amplifier circuits using PSpice. |
| | | C208.6: Design and Test the digital logic circuits |

CO-PO MAPPING

| COs | POs | | | | | | | | | | | | PSO | | |
|--------|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO 2 | PO 3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C208.1 | 3 | 2 | 2 | 2 | 2 | - | - | - | 1 | 2 | 1 | 1 | - | 2 | - |
| C208.2 | 3 | 2 | 2 | 2 | 2 | - | - | - | 1 | 2 | 1 | 1 | 2 | 2 | - |
| C208.3 | 3 | 2 | 2 | 2 | 2 | - | - | - | 1 | 2 | 1 | 1 | 2 | 2 | 1 |
| C208.4 | 3 | 2 | 2 | 2 | 2 | - | - | - | 1 | 2 | 1 | 1 | 2 | 2 | 1 |
| C208.5 | 3 | 2 | 2 | 2 | 2 | - | - | - | 1 | 2 | 1 | 1 | 2 | 2 | 1 |
| C208.6 | 2 | 2 | 2 | 2 | 2 | - | - | - | 1 | 2 | 1 | 1 | 2 | 2 | - |
| C208 | 3 | 2 | 2 | 2 | 2 | - | - | - | 1 | 2 | 1 | 1 | 2 | 2 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|---|---|
| HS8381 | INTERPERSONAL SKILLS/LISTENING & SPEAKING | C209.1: Listen and respond appropriately |
| | | C209.2: Participate in group discussions. |
| | | C209.3: Develop communication skills |
| | | C209.4: Participate confidently and appropriately in conversations both formal and informal |
| | | C209.5: Improve general and academic listening skills |
| | | C209.6: Prepare effective presentations |

CO-PO MAPPING

| COs | POs | | | | | | | | | | | | PSO | | |
|--------|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO 2 | PO 3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C209.1 | - | - | - | - | - | - | - | 2 | 2 | 2 | - | - | - | - | 1 |
| C209.2 | - | - | - | - | - | - | - | 2 | 2 | 2 | - | - | - | - | 1 |
| C209.3 | - | - | - | - | - | - | - | 2 | 2 | 2 | - | - | - | - | 1 |
| C209.4 | - | - | - | - | - | - | - | 2 | 2 | 2 | - | - | - | - | 1 |
| C209.5 | - | - | - | - | - | - | - | 2 | 2 | 2 | - | - | - | - | 1 |
| C209.6 | - | - | - | - | - | - | - | 2 | 2 | 2 | - | - | - | - | 1 |
| C209 | - | - | - | - | - | - | - | 2 | 2 | 2 | - | - | - | - | 1 |

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE OUTCOMES – REGULATIONS 2017- IV SEMESTER

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|---|---|
| MA8451 | PROBABILITY AND RANDOM PROCESSES | C210.1: Explain the fundamental knowledge of the concepts of probability and have knowledge of standard distributions which can describe real life phenomenon. |
| | | C210.2: Explain the basic concepts of one- and two dimensional random variables and apply in engineering applications. |
| | | C210.3: Apply the concept random processes in engineering disciplines. |
| | | C210.4: Explain and apply the concept of correlation and spectral densities. |
| | | C210.5: Explain the various distribution functions and acquiring skills in handling situations involving more than one variable. |
| | | C210.6: Analyze the response of random inputs to linear time invariant systems |

CO-PO MAPPING

| COs | POs | | | | | | | | | | | | PSO | | |
|---------------|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO 2 | PO 3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C210.1 | 3 | 2 | 1 | 1 | - | - | - | - | - | - | - | 1 | - | 1 | - |
| C210.2 | 3 | 2 | 1 | 1 | - | - | - | - | - | - | - | 1 | - | 1 | - |
| C210.3 | 3 | 2 | 1 | 1 | - | - | - | - | - | - | - | 1 | - | 1 | - |
| C210.4 | 2 | 2 | 1 | 1 | - | - | - | - | - | - | - | 1 | - | 1 | - |
| C210.5 | 3 | 3 | 1 | 1 | - | - | - | - | - | - | - | 1 | - | 1 | - |
| C210.6 | 2 | 2 | 1 | 1 | - | - | - | - | - | - | - | 1 | - | 1 | - |
| C210 | 3 | 2 | 1 | 1 | - | - | - | - | - | - | - | 1 | - | 1 | - |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|---------------------------|---|
| EC8452 | ELECTRONIC CIRCUITS II | C211.1: Analyze different types of feedback amplifier. |
| | | C211.2: Design & Analyze of transistorized amplifier and oscillator circuits. |
| | | C211.3: Analyze transistorized tuned amplifier. |
| | | C211.4: Analyze of wave shaping circuits. |
| | | C211.5: Design & Analyze of Multivibrators. |
| | | C211.6: Design & Analyze the operation of power amplifier and DC convertors. |

CO-PO MAPPING

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

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|---------------------|--|
| EC8491 | COMMUNICATON THEORY | C212.1: Describe the concepts of amplitude modulations system. |
| | | C212.2: Summarize the concept of angle modulation system. |
| | | C212.3: Solve communication engineering problems by applying the concepts of random process. |
| | | C212.4: Compare the noise performance of AM and FM systems. |
| | | C212.5: Analyze the principles of Sampling and quantization. |
| | | C212.6: Design the PCM system. |

CO-PO MAPPING

| COs | POs | | | | | | | | | | | | PSO | | |
|--------|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO 2 | PO 3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C212.1 | 2 | 2 | 2 | 2 | 1 | - | - | - | 2 | 1 | - | - | 1 | 1 | - |
| C212.2 | 2 | 2 | 2 | 2 | 1 | - | - | - | 2 | 1 | - | - | 1 | 1 | - |
| C212.3 | 2 | 2 | 2 | 2 | 1 | - | - | - | 2 | 1 | - | - | 1 | 1 | 1 |
| C212.4 | 2 | 2 | 2 | 2 | 1 | - | - | - | 2 | 1 | - | - | 1 | 1 | - |
| C212.5 | 2 | 2 | 2 | 2 | 1 | - | - | - | 2 | 1 | - | - | 1 | 1 | - |
| C212.6 | 2 | 2 | 2 | 2 | 1 | - | - | - | 2 | 1 | - | - | 1 | 1 | - |
| C212 | 2 | 2 | 2 | 2 | 1 | - | - | - | 2 | 1 | - | - | 1 | 1 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|------------------------|---|
| EC8451 | ELECTROMAGNETIC FIELDS | C213.1: Explain the basic mathematical concepts related to electromagnetic fields & Electrostatic fields. |
| | | C213.2: Interpret the concepts of electrical potential, energy density and their applications |
| | | C213.3: Summarize the concepts of magneto statics, magnetic flux density, scalar and vector potential and its applications |
| | | C213.4: Describe the concepts of Faradays law , Induced emf and Maxwell's equations to analyze the electrodynamics fields |
| | | C213.5: Explain the basic concepts of electromagnetic waves, parameters and its propagation in lossy and in lossless medias. |
| | | C213.6: Demonstrate the estimation of electric and magnetic field quantities. |

CO-PO MAPPING

| COs | POs | | | | | | | | | | | | PSO | | |
|---------------|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO 2 | PO 3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C213.1 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | 1 | - | - | 1 | 2 | - |
| C213.2 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | 1 | - | - | 1 | 2 | - |
| C213.3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | 1 | - | - | 1 | 2 | - |
| C213.4 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | 1 | - | - | 1 | 2 | 1 |
| C213.5 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | 1 | - | - | 1 | 2 | - |
| C213.6 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | 1 | - | - | 1 | 2 | - |
| C213 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | 1 | - | - | 1 | 2 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|----------------------------|---|
| EC8453 | LINEAR INTEGRATED CIRCUITS | C214.1: Design linear applications of OP – AMPS |
| | | C214.2: Design non linear applications of OP – AMPS |
| | | C214.3: Design applications using analog multiplier and PLL |
| | | C214.4: Design ADC and DAC using OP – AMPS |
| | | C214.5: Generate waveforms using OP – AMP Circuits |
| | | C214.6: To analyze special function ICs |

CO-PO MAPPING

| COs | POs | | | | | | | | | | | | PSO | | |
|--------|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO 2 | PO 3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C214.1 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 1 | 1 | 2 | - |
| C214.2 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 1 | 1 | 2 | 1 |
| C214.3 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 1 | 1 | 2 | - |
| C214.4 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 1 | 1 | 2 | - |
| C214.5 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 1 | 1 | 2 | 1 |
| C214.6 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 1 | 1 | 2 | - |
| C214 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 1 | 1 | 2 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|---|--|
| GE8291 | ENVIRONMENTAL SCIENCE AND ENGINEERING | C215.1: Discover the public participation is an important aspect which serves the environmental protection. |
| | | C215.2: Describe the population explosion and family welfare programme and the value of education and human rights. |
| | | C215.3: Recall public awareness of environmental is at infant stage. |
| | | C215.4: List the ignorance and incomplete knowledge has lead to misconceptions. |
| | | C215.5: Development and improvement in standard. of living has lead to serious environmental disasters. |
| | | C215.6: Explain the various resources such as forest, mineral water and case studies of land and energy resources |

CO-PO MAPPING

| COs | POs | | | | | | | | | | | | PSO | | |
|---------------|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO 2 | PO 3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C215.1 | 3 | 2 | 1 | 1 | - | 2 | 2 | 1 | 1 | - | - | 1 | 2 | 1 | 1 |
| C215.2 | 3 | 2 | - | - | - | 2 | 2 | 1 | 1 | - | - | 1 | 2 | 1 | - |
| C215.3 | 3 | 2 | - | - | - | 2 | 2 | 1 | 1 | - | - | 1 | 2 | 1 | - |
| C215.4 | 3 | 2 | - | - | - | 2 | 2 | 1 | 1 | - | - | 1 | 2 | 1 | - |
| C215.5 | 3 | 2 | 1 | 1 | - | 2 | 2 | 1 | 1 | - | - | 1 | 2 | 1 | 1 |
| C215.6 | 3 | 2 | - | - | - | 2 | 2 | 1 | 1 | - | - | 1 | 2 | 1 | - |
| C215 | 3 | 2 | 1 | 1 | - | 2 | 2 | 1 | 1 | - | - | 1 | 2 | 1 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|--|--|
| EC8461 | CIRCUITS DESIGN AND SIMULATION LABORATORY | C216.1: Define the various types of feedback amplifier |
| | | C216.2: Analyze the design of oscillators, tuned amplifiers, wave-shaping circuits and multivibrators. |
| | | C216.3: Compare the design and simulate feedback amplifiers, oscillators, tuned amplifiers, wave-shaping circuits and multivibrators using SPICE Tool. |
| | | C216.4: Interpret the basic procedure for all the semiconductor devices and circuits. |
| | | C216.5: Design the RC phase shift and LC oscillators. |
| | | C216.6: Design and implement of design of passive filters. |

CO-PO MAPPING

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

*3-High correlation; 2- Medium correlation; 1-Low correlation


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|---------------------------------------|--|
| EC8462 | LINEAR INTEGRATED CIRCUITS LABORATORY | C217.1: Design amplifiers, oscillators, D-A converters using operational amplifiers. |
| | | C217.2: Apply the concept of design filters using op-amp and performs an experiment on frequency response. |
| | | C217.3: Analyze the working of PLL and describe its application as a frequency multiplier. |
| | | C217.4: Design DC power supply using ICs. |
| | | C217.5: Analyze the performance of filters, multivibrators, A/D converter and analog multiplier using SPICE. |
| | | C217.6: Acquire the basic knowledge of special function IC. |

CO-PO MAPPING

| COs | POs | | | | | | | | | | | | PSO | | |
|--------|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO 2 | PO 3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C217.1 | 3 | 3 | 2 | 1 | 1 | - | - | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 |
| C217.2 | 3 | 3 | 2 | 1 | 1 | - | - | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 |
| C217.3 | 3 | 3 | 2 | 1 | 1 | - | - | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 |
| C217.4 | 3 | 3 | 2 | 1 | 1 | - | - | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 |
| C217.5 | 3 | 3 | 2 | 1 | 1 | - | - | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 |
| C217.6 | 3 | 3 | 2 | 1 | 1 | - | - | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 |
| C217 | 3 | 3 | 2 | 1 | 1 | - | - | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 |

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE OUTCOMES – REGULATIONS 2017- V SEMESTER

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|--------------------------|--|
| EC8501 | DIGITAL COMMUNICATION | C301.1:Discuss the concept of PCM systems |
| | | C301.2:Describe the various waveform coding schemes and their performance |
| | | C301.3:Match and implement base band transmission schemes |
| | | C301.4:Select and implement band pass signaling schemes |
| | | C301.5:Demonstrate the spectral characteristics of band pass signaling schemes and their noise performance |
| | | C301.6:Design error control coding schemes |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C301.1 | 3 | 3 | 2 | 1 | 1 | - | - | - | - | 1 | - | 1 | 1 | 2 | - |
| C301.2 | 3 | 3 | 2 | 1 | 1 | - | - | - | - | 1 | - | 1 | 1 | 2 | - |
| C301.3 | 3 | 3 | 2 | 1 | 1 | - | - | - | - | 1 | - | 1 | - | 2 | - |
| C301.4 | 3 | 3 | 2 | 1 | 1 | - | - | - | - | 1 | - | 1 | - | 2 | - |
| C301.5 | 3 | 3 | 2 | 1 | 1 | - | - | - | - | 1 | - | 1 | 1 | 2 | - |
| C301.6 | 3 | 3 | 2 | 1 | 1 | - | - | - | - | 1 | - | 1 | 1 | 2 | 1 |
| C301 | 3 | 3 | 2 | 1 | 1 | - | - | - | - | 1 | - | 1 | 1 | 2 | 1 |

*3-High Correlation; 2-Medium Correlation; 1-Low Correlation

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|---------------------------------------|--|
| EC8553 | DISCRETE-TIME SIGNAL PROCESSING | C302.1:Apply DFT for the analysis of digital signals and systems |
| | | C302.2:Compare DFT and Fast Fourier Transform(FFT) |
| | | C302.3:Design an analog and digital Infinite Impulse Response (IIR) filters for filtering undesired signals |
| | | C302.4:Design of digital Finite Impulse Response (FIR) filters using the windowing technique and frequency sampling method for filtering undesired signals |
| | | C302.5:Describe the finite word length effects on filters |
| | | C302.6:Describe about fixed and floating point architecture principles |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|----------|----------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C302.1 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 2 | 1 | - |
| C302.2 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 2 | 1 | - |
| C302.3 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 2 | 1 | - |
| C302.4 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 2 | 1 | - |
| C302.5 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 2 | 1 | - |
| C302.6 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 2 | 1 | - |
| C302 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 2 | 1 | - |

*3-HighCorrelation;2-MediumCorrelation;1-LowCorrelation

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|--|---|
| EC8552 | COMPUTER ARCHITECTURE AND ORGANIZATION | C303.1: Describe data representation, instruction formats and the operation of a digital computer |
| | | C303.2: Illustrate the fixed point and floating-point arithmetic for ALU operation |
| | | C303.3: Discuss about implementation schemes of control unit and pipeline performance |
| | | C303.4: Explain the concept of various memories, interfacing and organization of multiple processors |
| | | C303.5: Describe parallel processing unconventional architectures |
| | | C303.6: Discuss about Multiprocessor network topologies |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C303.1 | 3 | 3 | 2 | 2 | 2 | - | 1 | - | - | 2 | - | 1 | 1 | 1 | - |
| C303.2 | 3 | 3 | 2 | 2 | 2 | - | 1 | - | - | 2 | - | 1 | 1 | 1 | - |
| C303.3 | 3 | 3 | 2 | 2 | 2 | - | 1 | - | - | 2 | - | 1 | 1 | 1 | - |
| C303.4 | 3 | 3 | 2 | 2 | 2 | - | 1 | - | - | 2 | - | 1 | 1 | 1 | - |
| C303.5 | 3 | 3 | 2 | 2 | 2 | - | 1 | - | - | 2 | - | 1 | 1 | 1 | - |
| C303.6 | 3 | 3 | 2 | 2 | 2 | - | 1 | - | - | 2 | - | 1 | 1 | 1 | - |
| C303 | 3 | 3 | 2 | 2 | 2 | - | 1 | - | - | 2 | - | 1 | 1 | 1 | - |

***3-High Correlation; 2-Medium Correlation; 1-Low Correlation**

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|------------------------|--|
| EC8551 | COMMUNICATION NETWORKS | C304.1: Describe the division of network functionalities into layers. |
| | | C304.2: Identify the components required to build different types of networks |
| | | C304.3: Choose the required functionality at each layer for given application |
| | | C304.4: Identify solution for each functionality at each layer |
| | | C304.5: Trace the flow of information from one node to another node in the network |
| | | C304.6: Summarize about routing and multicast routing |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C304.1 | 3 | 3 | 2 | 2 | - | - | 1 | - | - | - | - | 1 | 2 | 3 | - |
| C304.2 | 3 | 3 | 2 | 2 | - | - | 1 | - | - | - | - | 1 | 2 | 3 | 1 |
| C304.3 | 3 | 3 | 2 | 2 | 1 | - | 1 | - | - | 1 | - | 1 | 2 | 3 | 1 |
| C304.4 | 3 | 3 | 2 | 2 | 1 | - | 1 | - | - | 1 | - | 1 | 2 | 3 | 1 |
| C304.5 | 3 | 3 | 2 | 2 | 2 | - | 1 | - | - | 2 | - | 1 | 2 | 3 | 1 |
| C304.6 | 3 | 3 | 2 | 2 | 2 | - | 1 | - | - | 2 | - | 1 | 2 | 3 | - |
| C304 | 3 | 3 | 2 | 2 | 2 | - | 1 | - | - | 2 | - | 1 | 2 | 3 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|--|--|
| OMD551 | BASICS OF BIOMEDICAL INSTRUMENTATION | C305.1: Describe the different bio potential and its propagation. |
| | | C305.2: Compare the different types of electrodes and its placement for various recording |
| | | C305.3: Design of bio amplifier for various physiological recording |
| | | C305.4: Analyze different measurement techniques for non-physiological parameters |
| | | C305.5: Explain the different biochemical measurements. |
| | | C305.6: Describe the bio amplifiers and bio chemical instruments. |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|---------------|----------|----------|----------|----------|----------|-----|-----|-----|-----|----------|------|------|----------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C305.1 | 3 | 3 | 2 | 2 | 1 | - | - | - | - | 1 | - | - | 3 | - | - |
| C305.2 | 3 | 3 | 2 | 2 | 1 | - | - | - | - | 1 | - | - | 3 | - | - |
| C305.3 | 3 | 3 | 2 | 2 | 1 | - | - | - | - | 1 | - | - | 3 | - | - |
| C305.4 | 3 | 3 | 2 | 2 | 1 | - | - | - | - | 1 | - | - | 3 | - | - |
| C305.5 | 3 | 3 | 2 | 2 | 1 | - | - | - | - | 1 | - | - | 3 | - | - |
| C305.6 | 3 | 3 | 2 | 2 | 1 | - | - | - | - | 1 | - | - | 3 | - | - |
| C305 | 3 | 3 | 2 | 2 | 1 | - | - | - | - | 1 | - | - | 3 | - | - |

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|------------------------|---|
| GE8073 | MEDICAL ELECTRONICS | C306.1: Discuss the physiological parameters and recording methods of bioelectric signals |
| | | C306.2: Explain the various bio chemical Information |
| | | C306.3: Explain the various physiological information |
| | | C306.4: Illustrate the working of human assist devices used in hospitals and to know about telemetry principles |
| | | C306.5: Describe the recent trends in diagnosis & Therapy |
| | | C306.6: Analyze the physiological and chemical information |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C306.1 | 3 | 3 | 1 | 1 | 1 | - | 1 | - | - | - | - | 1 | 1 | - | - |
| C306.2 | 3 | 3 | 1 | 1 | 1 | - | 1 | - | - | - | - | 1 | 1 | - | - |
| C306.3 | 3 | 3 | 1 | 1 | 1 | - | 1 | - | - | - | - | 1 | 1 | - | - |
| C306.4 | 3 | 3 | 1 | 1 | 1 | - | 1 | - | - | - | - | 1 | 1 | - | - |
| C306.5 | 3 | 3 | 1 | 1 | 1 | - | 1 | - | - | - | - | 1 | 1 | - | 1 |
| C306.6 | 3 | 3 | 1 | 1 | 1 | - | 1 | - | - | - | - | 1 | 1 | - | 1 |
| C306 | 3 | 3 | 1 | 1 | 1 | - | 1 | - | - | - | - | 1 | 1 | - | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|--------------------------------------|---|
| EC8562 | DIGITAL SIGNAL PROCESSING LABORATORY | C307.1: Carryout basic signal processing operations |
| | | C307.2: Demonstrate their abilities towards MATLAB based implementation of various DSP systems |
| | | C307.3: Explain the architecture of a DSP Processor |
| | | C307.4: Illustrate and Implement the FIR and IIR Filters in DSP Processor for performing filtering operation over real-time signals |
| | | C307.5: Summarize a DSP system for various applications of DSP |
| | | C307.6: Demonstrate the architecture and addressing modes of TMS 320C5416 processor and design IIR and FIR filters using TMS 320C5416 processor |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C307.1 | 3 | 3 | 3 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 1 | 1 | 1 |
| C307.2 | 3 | 3 | 3 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 1 | 1 | - |
| C307.3 | 3 | 3 | 3 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 1 | 1 | - |
| C307.4 | 3 | 3 | 3 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 1 | 1 | 1 |
| C307.5 | 3 | 3 | 3 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 1 | 1 | 1 |
| C307.6 | 3 | 3 | 3 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 1 | 1 | 1 |
| C307 | 3 | 3 | 3 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 1 | 1 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|----------------------------------|---|
| EC8561 | COMMUNICATION SYSTEMS LABORATORY | C308.1: Simulate & validate the various functional modules of a communication system |
| | | C308.2: Demonstrate their knowledge in base band signaling schemes through implementation of digital modulation schemes |
| | | C308.3: Apply various channel coding schemes & demonstrate their capabilities towards the improvement of the noise performance of communication system |
| | | C308.4: Simulate end-to-end communication Link |
| | | C308.5: Compute the line coding and channel coding schemes to improve the noise performance of communication systems through simulations. |
| | | C308.6: Design and simulate various types of Digital modulation Using MATLAB |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C308.1 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 1 | 1 |
| C308.2 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 1 | - |
| C308.3 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 1 | 1 |
| C308.4 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 1 | 1 |
| C308.5 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 1 | - |
| C308.6 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 1 | 1 |
| C308 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 1 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|-----------------------------------|---|
| EC8563 | COMMUNICATION NETWORKS LABORATORY | C309.1: Establishing communication between two desktop computers |
| | | C309.2: Implement the different protocols |
| | | C309.3: Implement the Program using sockets. |
| | | C309.4: Implement and compare the various routing algorithms |
| | | C309.5: Utilize the simulation tool. |
| | | C309.6: Analyze various types of topologies and understanding the differences between them. |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C309.1 | 3 | 2 | 2 | 2 | 1 | - | - | - | 2 | 1 | - | - | 2 | 2 | - |
| C309.2 | 3 | 2 | 2 | 2 | 1 | - | - | - | 2 | 1 | - | - | 2 | 2 | 1 |
| C309.3 | 3 | 2 | 2 | 2 | 1 | - | - | - | 2 | 1 | - | - | 2 | 2 | - |
| C309.4 | 3 | 2 | 2 | 2 | 1 | - | - | - | 2 | 1 | - | - | 2 | 2 | 1 |
| C309.5 | 3 | 2 | 2 | 2 | 1 | - | - | - | 2 | 1 | - | - | 2 | 2 | 1 |
| C309.6 | 3 | 2 | 2 | 2 | 1 | - | - | - | 2 | 1 | - | - | 2 | 2 | 1 |
| C309 | 3 | 2 | 2 | 2 | 1 | - | - | - | 2 | 1 | - | - | 2 | 2 | 1 |

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE OUTCOMES – REGULATIONS 2017-VI SEMESTER

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|--|--|
| EC8691 | MICROPROCESSORS AND MICROCONTROLLERS | C310.1: Describe the architecture and different modes of operations of a typical microprocessor |
| | | C310.2: Analyze and microprocessor execute programs based on 8086 |
| | | C310.3: Design Memory Interfacing circuits. |
| | | C310.4: Design and interface I/O circuits. |
| | | C310.5: Summarize and implement 8051 microcontroller based systems |
| | | C310.6: Describe and compare the features of Microprocessor's and Microcontrollers. |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C310.1 | 3 | 2 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 3 | 2 | 1 |
| C310.2 | 3 | 2 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 3 | 2 | 1 |
| C310.3 | 3 | 2 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 3 | 2 | 1 |
| C310.4 | 3 | 2 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 3 | 2 | 1 |
| C310.5 | 3 | 2 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 3 | 2 | 1 |
| C310.6 | 3 | 2 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 3 | 2 | 1 |
| C310 | 3 | 2 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 3 | 2 | 1 |

***3-HighCorrelation;2-MediumCorrelation;1-LowCorrelation**

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|-------------|--|
| EC8095 | VLSI Design | C311.1: Know the characteristic of CMOS circuits |
| | | C311.2: Illustrate the concepts of digital building blocks using MOS transistor. |
| | | C311.3: Design combinational MOS circuits and power strategies. |
| | | C311.4: Design and construct Sequential Circuits and Timing systems. |
| | | C311.5: Design arithmetic building blocks and memory subsystems. |
| | | C311.6: Apply and implement FPGA design flow and testing. |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C311.1 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 2 | 1 |
| C311.2 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 2 | 1 |
| C311.3 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 2 | 1 |
| C311.4 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 2 | 1 |
| C311.5 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 2 | 1 |
| C311.6 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 2 | 1 |
| C311 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 2 | 1 |

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|------------------------|--|
| EC8652 | WIRELESS COMMUNICATION | C312.1: Characterize a wireless channel and evolve the system design specifications |
| | | C312.2 : Discuss the cellular system availability and traffic based resource demands |
| | | C312.3: Design suitable signaling and multipath mitigation techniques for the wireless channel and system under consideration. |
| | | C312.4: Analyze the characteristics of various wireless channels |
| | | C312.5: Explain the concepts behind various digital signaling schemes for fading channels |
| | | C312.6: Compare and implement systems with transmit/receive diversity |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C312.1 | 3 | 2 | 2 | 1 | 1 | - | - | - | - | 2 | - | 2 | 3 | 1 | 1 |
| C312.2 | 3 | 2 | 2 | 1 | 1 | - | - | - | - | 2 | - | 2 | 3 | 1 | 2 |
| C312.3 | 3 | 2 | 2 | 1 | 1 | - | - | - | - | 2 | - | 2 | 3 | 1 | 2 |
| C312.4 | 3 | 2 | 2 | 1 | 1 | - | - | - | - | 2 | - | 2 | 2 | 1 | 1 |
| C312.5 | 3 | 2 | 2 | 1 | 1 | - | - | - | - | 2 | - | 2 | 2 | 2 | 2 |
| C312.6 | 3 | 2 | 2 | 1 | 1 | - | - | - | - | 2 | - | 2 | 2 | 2 | 2 |
| C312 | 3 | 2 | 2 | 1 | 1 | - | - | - | - | 2 | - | 2 | 2 | 2 | 2 |

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|--------------------------|---|
| MG8591 | PRINCIPLES OF MANAGEMENT | C313.1: Explain the management evolution |
| | | C313.2: Recall the functions like planning, organizing, staffing, leading & controlling and have same basic knowledge on international aspect of management |
| | | C313.3: Learn the various types of business organizations. |
| | | C313.4: Explain the concept of different motivation theories. |
| | | C313.5: Classify the various MNCs in the current global trends. |
| | | C313.6: Explain the concept of strategic planning and tactical planning. |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C313.1 | 3 | 2 | 2 | 1 | - | - | 1 | 1 | 1 | - | - | 1 | - | 2 | - |
| C313.2 | 3 | 2 | 2 | 1 | - | - | 1 | 1 | 1 | - | - | 1 | - | 2 | - |
| C313.3 | 3 | 2 | 2 | 1 | - | - | 1 | 1 | 1 | - | - | 1 | - | 2 | - |
| C313.4 | 3 | 2 | 2 | 1 | - | - | 1 | 1 | 1 | - | - | 1 | - | 2 | - |
| C313.5 | 3 | 2 | 2 | 1 | - | - | 1 | 1 | 1 | - | - | 1 | - | 2 | - |
| C313.6 | 3 | 2 | 2 | 1 | - | - | 1 | 1 | 1 | - | - | 1 | - | 2 | - |
| C313 | 3 | 2 | 2 | 1 | - | - | 1 | 1 | 1 | - | - | 1 | - | 2 | - |

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|---|---|
| EC8651 | TRANSMISSION LINES AND RF SYSTEMS | C314.1: Explain the characteristics of transmission lines and its losses |
| | | C314.2: Write about the standing wave ratio and impedance in high frequency transmission lines |
| | | C314.3: Analyze about impedance matching by stubs using smith charts |
| | | C314.4: Illustrate the characteristics of TE and TM waves |
| | | C314.5: Design a RF transceiver system for wireless communication |
| | | C314.6: Illustrate about the general wave behavior along uniform guiding structures transverse electromagnetic Waves. |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C314.1 | 3 | 2 | 1 | 1 | 1 | - | - | - | - | 1 | - | 1 | 1 | 2 | - |
| C314.2 | 3 | 2 | 1 | 1 | 1 | - | - | - | - | 1 | - | 1 | 1 | 2 | - |
| C314.3 | 3 | 2 | 1 | 1 | 1 | - | - | - | - | 1 | - | 1 | 1 | 2 | - |
| C314.4 | 3 | 2 | 1 | 1 | 1 | - | - | - | - | 1 | - | 1 | 1 | 2 | - |
| C314.5 | 3 | 2 | 1 | 1 | 1 | - | - | - | - | 1 | - | 1 | 1 | 3 | 1 |
| C314.6 | 3 | 2 | 1 | 1 | 1 | - | - | - | - | 1 | - | 1 | 1 | 2 | - |
| C314 | 3 | 2 | 1 | 1 | 1 | - | - | - | - | 1 | - | 1 | 1 | 2 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|------------------|--|
| EC8004 | WIRELESS NETWORK | C315.1: Discuss with the latest 3G/4G networks and its architecture |
| | | C315.2: Explain and implement wireless network environment for any application using latest wireless protocols and standards |
| | | C315.3: Discuss about suitable network depending on the availability and requirement |
| | | C315.4: Explain the different type of applications for smartphones and mobile devices with latest network strategies |
| | | C315.5: Design and demonstrate wireless networks for various applications. |
| | | C315.6: Compare the advantages of various networks |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C315.1 | 3 | 2 | 1 | 1 | - | - | - | - | - | 1 | - | 1 | 1 | 2 | - |
| C315.2 | 3 | 2 | 1 | 1 | - | - | - | - | - | 1 | - | 1 | 1 | 2 | - |
| C315.3 | 3 | 2 | 1 | 1 | - | - | - | - | - | 1 | - | 1 | - | 1 | - |
| C315.4 | 3 | 2 | 1 | 1 | - | - | - | - | - | 1 | - | 1 | 1 | 2 | - |
| C315.5 | 3 | 2 | 1 | 1 | - | - | - | - | - | 1 | - | 1 | 1 | 3 | 1 |
| C315.6 | 3 | 2 | 1 | 1 | - | - | - | - | - | 1 | - | 1 | 1 | 2 | - |
| C315 | 3 | 2 | 1 | 1 | | - | - | - | - | 1 | - | 1 | 1 | 2 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|--|--|
| EC8681 | MICROPROCESSORS AND MICROCONTROLLERS LABORATORY | C316.1: Write ALP Programmes for fixed and Floating Point and Arithmetic operations |
| | | C316.2: Interface different I/Os with processor |
| | | C316.3: Simulate and Generate waveforms using Microprocessors using MASM |
| | | C316.4: Execute Programs in 8051 |
| | | C316.5: Explain the difference between simulator and Emulator |
| | | C316.6: Analyze the programming with control instructions in 8085 |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C316.1 | 3 | 2 | 2 | - | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 2 | - |
| C316.2 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 2 | 1 |
| C316.3 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 2 | 1 |
| C316.4 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 2 | 1 |
| C316.5 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 2 | - |
| C316.6 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 2 | 1 |
| C316 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 2 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|---------------------------|---|
| EC8661 | VLSI DESIGN LABORATORY | C317.1: Write HDL code for basic as well as advanced digital integrated circuit |
| | | C317.2: Apply the logic modules into FPGA Boards |
| | | C317.3: Synthesize Place and Route the digital IPs |
| | | C317.4: Design combinational and sequential circuits using VHDL. |
| | | C317.5: Design, Simulate and Extract the layouts of Digital IC Blocks using EDA tools |
| | | C317.6: Design, Simulate and Extract the layouts of Analog IC Blocks using EDA tools |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C317.1 | 3 | 2 | 2 | 1 | 1 | 1 | - | - | 1 | 1 | - | - | 2 | 2 | 1 |
| C317.2 | 3 | 2 | 2 | 1 | 1 | 1 | - | - | 1 | 1 | - | - | 2 | 2 | 1 |
| C317.3 | 3 | 2 | 2 | 1 | 1 | 1 | - | - | 1 | 1 | - | - | 3 | 3 | 3 |
| C317.4 | 3 | 2 | 2 | 1 | 1 | 1 | - | - | 1 | 1 | - | - | 2 | 2 | 1 |
| C317.5 | 3 | 2 | 2 | 1 | 1 | 1 | - | - | 1 | 1 | - | - | 2 | 2 | 1 |
| C317.6 | 3 | 2 | 2 | 1 | 1 | 1 | - | - | 1 | 1 | - | - | 2 | 2 | 1 |
| C317 | 3 | 2 | 2 | 1 | 1 | 1 | - | - | 1 | 1 | - | - | 2 | 2 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|-------------------|--|
| EC8611 | TECHNICAL SEMINAR | C318.1: Enrich the communication skills of the student technical topics of interest |
| | | C318.2: Identify promising new directions of cutting edges technologies |
| | | C318.3: Analyze the various methodologies and technologies and discuss with the team for solving the problem. |
| | | C318.4: Discuss and impart skills in preparing detailed report describing the project and results. |
| | | C318.5; Discuss about effectively communicate by making an oral presentation before an evaluation committee |
| | | C318.6: Discuss the technical quiz and Group Discussions programs |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C318.1 | 3 | 2 | 1 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 1 | - |
| C318.2 | 3 | 2 | 1 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 1 | 1 |
| C318.3 | 3 | 2 | 1 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 1 | 1 |
| C318.4 | 3 | 2 | 1 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 1 | 1 |
| C318.5 | 3 | 2 | 1 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 1 | 1 |
| C318.6 | 3 | 2 | 1 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 1 | 1 |
| C318 | 3 | 2 | 1 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 1 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|----------------------------|--|
| HS8581 | PROFESSIONAL COMMUNICATION | C319.1: Explain about the corporate etiquette -organizing and managing professional events and will comprehend how reading will enhances their communicative competency |
| | | C319.2: Discuss about the making of effective communication and presentations. |
| | | C319.3: Describe adequate soft skills required for the workplace |
| | | C319.4: Build good relation with Business correspondence |
| | | C319.5; Develop all around personalities with a mature outlook to function effectively in different circumstances |
| | | C319.6: Construct their confidence and help the attend interviews successfully. |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|----------|----------|----------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C319.1 | - | - | - | - | - | - | - | - | 3 | 3 | 3 | - | - | - | 1 |
| C319.2 | - | - | - | - | - | - | - | - | 3 | 3 | 3 | - | - | - | 1 |
| C319.3 | - | - | - | - | - | - | - | - | 3 | 3 | 3 | - | - | - | 1 |
| C319.4 | - | - | - | - | - | - | - | - | 3 | 3 | 3 | - | - | - | 1 |
| C319.5 | - | - | - | - | - | - | - | - | 3 | 3 | 3 | - | - | - | 1 |
| C318.6 | - | - | - | - | - | - | - | - | 3 | 3 | 3 | - | - | - | 1 |
| C319 | - | - | - | - | - | - | - | - | 3 | 3 | 3 | - | - | - | 1 |

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COURSE OUTCOMES – REGULATIONS 2017-VII SEMESTER

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|--|---|
| EC8701 | ANTENN AND MICROWAVE ENGINEERING | C401.1:Apply the basic principles antenna parameters and link power budgets |
| | | C401.2:Demonstrate and assess the performance of various antennas |
| | | C401.3:Analyze the importance of the antenna array, uniform and non-uniform amplitude excitation and smart antenna. |
| | | C401.4:Describe the concept of microwave semiconductor devices and tubes. |
| | | C401.5:Illustrate a microwave system given the application specifications. |
| | | C401.6:Design of microwave filter and microwave amplifier |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C401.1 | 3 | 3 | 2 | 1 | 2 | - | 1 | - | - | 2 | - | 2 | 1 | 2 | - |
| C401.2 | 3 | 3 | 2 | 1 | 2 | - | 1 | - | - | 2 | - | 2 | 1 | 2 | - |
| C401.3 | 3 | 3 | 2 | 1 | 2 | - | 1 | - | - | 2 | - | 2 | 1 | 2 | - |
| C401.4 | 3 | 3 | 2 | 1 | 2 | - | 1 | - | - | 2 | - | 2 | 1 | 2 | - |
| C401.5 | 3 | 3 | 2 | 1 | 2 | - | 1 | - | - | 2 | - | 2 | 1 | 2 | 1 |
| C401.6 | 3 | 3 | 2 | 1 | 3 | - | 1 | - | - | 3 | - | 3 | 1 | 3 | 1 |
| C401 | 3 | 3 | 2 | 1 | 2 | - | 1 | - | - | 2 | - | 2 | 1 | 2 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|-----------------------|---|
| EC8751 | OPTICAL COMMUNICATION | C402.1: Realize the basic elements in optical fibers, different modes and configurations |
| | | C402.2: Analyze the transmission characteristics associated with dispersion and polarization techniques |
| | | C402.3: Explain optical sources and detectors with their use in optical communication system |
| | | C402.4: Construct fiber optic receiver systems. Measurement and coupling techniques |
| | | C402.5: Demonstrate optical communication systems and its networks |
| | | C402.6: Describe various optical components and measuring instruments. |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C402.1 | 3 | 3 | 2 | 1 | - | 1 | - | - | - | 2 | - | 2 | 1 | 2 | - |
| C402.2 | 3 | 3 | 2 | 1 | - | 1 | - | - | - | 2 | - | 2 | 1 | 2 | - |
| C402.3 | 3 | 3 | 2 | 1 | - | 1 | - | - | - | 2 | - | 2 | 1 | 2 | - |
| C402.4 | 3 | 3 | 2 | 1 | - | 1 | - | - | - | 2 | - | 2 | 2 | 2 | 1 |
| C402.5 | 3 | 3 | 2 | 1 | - | 1 | - | - | - | 2 | - | 2 | 1 | 2 | - |
| C402.6 | 3 | 3 | 2 | 1 | - | 1 | - | - | - | 2 | - | 2 | 1 | 2 | - |
| C402 | 3 | 3 | 2 | 1 | - | 1 | - | - | - | 2 | - | 2 | 1 | 2 | 1 |

*3-High Correlation; 2-Medium Correlation; 1-Low Correlation

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|--------------------------------------|--|
| EC8791 | EMBEDDED AND REAL TIME SYSTEMS | C403.1: Describe the architecture and programming of ARM processor |
| | | C403.2: Explain the concepts of embedded systems |
| | | C403.3: Explain the basic concepts of real time operating system design |
| | | C403.4: Apply the Model real-time applications using embedded-system concepts |
| | | C403.5: Compare the MPSOCs and Shared memory multiprocessors. |
| | | C403.6: Illustrate the multiple task and multirate systems. Justify the inter process communication. |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C403.1 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 2 | - |
| C403.2 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 2 | - |
| C403.3 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 2 | - |
| C403.4 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 3 | 1 |
| C403.5 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 2 | - |
| C403.6 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 2 | - |
| C403 | 3 | 3 | 2 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | 2 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|------------------------------------|---|
| EC8702 | ADHOC AND WIRELESS SENSOR NETWORKS | C404.1: Explain the basics of Adhoc networks and wireless sensor networks |
| | | C404.2: Apply this knowledge to identify the suitable routing algorithm based on the network and user requirement |
| | | C404.3: Apply the knowledge to identify appropriate physical and MAC layer protocols |
| | | C404.4: Describe the transport layer and security issues possible in Ad hoc and sensor networks |
| | | C404.5: Illustrate the basic modules and OS used in wireless sensor networks |
| | | C404.6: Analyse the programming challenges |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | 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 | 2 | - |
| C404.2 | 3 | 3 | 2 | 1 | 1 | - | - | - | - | - | - | - | 1 | 2 | 1 |
| C404.3 | 3 | 3 | 2 | 1 | 1 | - | - | - | - | - | - | - | 1 | 2 | 1 |
| C404.4 | 3 | 3 | 2 | 1 | 1 | - | - | - | - | - | - | - | 1 | 2 | - |
| C404.5 | 3 | 3 | 2 | 1 | 1 | - | - | - | - | - | - | - | 1 | 2 | - |
| C404.6 | 3 | 3 | 2 | 1 | 1 | - | - | - | - | - | - | - | 1 | 2 | - |
| C404 | 3 | 3 | 2 | 1 | 1 | - | - | - | - | - | - | - | 1 | 2 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|------------------------|--|
| GE 8071 | DISASTER MANAGEMENT | C405.1: Explain and exposure to disasters, their significance and types. |
| | | C405.2: Ensure that students begin to understand the relationship between vulnerability, disasters, disaster prevention and risk reduction |
| | | C405.3: Explain the preliminary understanding of approaches of Disaster Risk Reduction (DRR) |
| | | C405.4: Enhance awareness of institutional processes in the country |
| | | C405.5: Develop rudimentary ability to respond to their surroundings with potential disaster response in areas where they live, with due sensitivity |
| | | C405.6: Describe the Roles and Responsibilities of Panchayat, Urban and Legal bodies in Disaster Management |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C405.1 | 3 | 2 | 1 | 1 | - | 2 | 2 | 1 | 1 | - | - | - | 1 | 1 | - |
| C405.2 | 3 | 2 | 1 | 1 | - | 2 | 2 | 1 | 1 | - | - | - | 1 | 1 | - |
| C405.3 | 3 | 2 | 1 | 1 | - | 2 | 2 | 1 | 1 | - | - | - | 1 | 1 | - |
| C405.4 | 3 | 2 | 1 | 1 | - | 2 | 2 | 1 | 1 | - | - | - | 1 | 1 | - |
| C405.5 | 3 | 2 | 1 | 1 | - | 2 | 2 | 1 | 1 | - | - | - | 1 | 1 | - |
| C405.6 | 3 | 2 | 1 | 1 | - | 2 | 2 | 1 | 1 | - | - | - | 1 | 1 | - |
| C405 | 3 | 2 | 1 | 1 | - | 2 | 2 | 1 | 1 | - | - | - | 1 | 1 | - |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|-------------------------------------|---|
| OCS752 | INTRODUCTION TO C PROGRAMMING | C406.1: Develop simple application using basic constructs |
| | | C406.2: Design and Implement applications using arrays |
| | | C406.3: Develop application using functions and structures. |
| | | C406.4: Design and Implement applications using strings |
| | | C406.5: Decompose a C program into functions and pointers |
| | | C406.6: Represent and write program using structure and union |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C406.1 | 3 | 2 | 1 | 1 | - | - | - | - | 1 | 1 | - | 1 | 1 | 2 | - |
| C406.2 | 3 | 2 | 1 | 1 | - | - | - | - | 1 | 1 | - | 1 | 1 | 2 | - |
| C406.3 | 3 | 2 | 1 | 1 | - | - | - | - | 1 | 1 | - | 1 | 1 | 2 | - |
| C406.4 | 3 | 2 | 1 | 1 | - | - | - | - | 1 | 1 | - | 1 | 1 | 2 | 1 |
| C406.5 | 3 | 2 | 1 | 1 | - | - | - | - | 1 | 1 | - | 1 | 1 | 2 | - |
| C406.6 | 3 | 2 | 1 | 1 | - | - | - | - | 1 | 1 | - | 1 | 1 | 2 | - |
| C406 | 3 | 2 | 1 | 1 | - | - | - | - | 1 | 1 | - | 1 | 1 | 2 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|------------------------|--|
| EC8711 | EMBEDDED LABORATORY | C407.1:Build a programs in ARM for a specific application |
| | | C407.2:Interface memory, A/D and D/A convertors with ARM system |
| | | C407.3:Analyze the performance of interrupt |
| | | C407.4:Construct a program for interfacing keyboard, display, motor and sensor |
| | | C407.5:Develop a mini project using embedded system |
| | | C407.6:Develop a new interfacing program for different applications |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C407.1 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 3 | 1 |
| C407.2 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 3 | 1 |
| C407.3 | 3 | 3 | 3 | 3 | 3 | - | - | - | 3 | 3 | - | 3 | 3 | 3 | 1 |
| C407.4 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 3 | 1 |
| C407.5 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 3 | 1 |
| C407.6 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 3 | 1 |
| C407 | 3 | 2 | 2 | 2 | 2 | - | - | - | 2 | 2 | - | 2 | 2 | 3 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|---|--|
| EC8761 | ADVANCED COMMUNICATION LABORATORY | C408.1: Explain the performance of simple optical link by measurement of losses |
| | | C408.2: Analyzing the mode characteristics of fiber |
| | | C408.3: Construct the Eye Pattern, Pulse broadening of optical fiber and the impact on BER |
| | | C408.4: Estimate the Wireless Channel Characteristics of Wireless Communication System |
| | | C408.5: Analyze the performance of Wireless Communication System |
| | | C408.6: Illustrate the intricacies in Microwave System design |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C4081 | 2 | 2 | 1 | - | 1 | - | - | - | 1 | 1 | - | 1 | 2 | 2 | 1 |
| C408.2 | 2 | 2 | 1 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 3 | -2 | 1 |
| C408.3 | 2 | 2 | 1 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 2 | 2 | 1 |
| C408.4 | 2 | 2 | 1 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 2 | 2 | 1 |
| C408.5 | 2 | 2 | 1 | - | 1 | - | - | - | 1 | 1 | - | 1 | 2 | 2 | 1 |
| C408.6 | 2 | 2 | 1 | - | 1 | - | - | - | 1 | 1 | - | 1 | 2 | 2 | 1 |
| C408 | 2 | 2 | 1 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 2 | 2 | 1 |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to | |
|-------------|------------------------------------|--|---|
| EC8076 | PROFESSIONAL ETHICS IN ENGINEERING | C409.1 | Describe the moral, values and ethics and self-confidence of human values |
| | | C409.2 | Apply engineering ethics in society |
| | | C409.3 | Explain about engineers as responsible experimenters |
| | | C409.4 | Interpreted the ethical issues and the responsibilities and rights in the society |
| | | C409.5 | explain the basic Environmental ethics and computer ethics Ethics and Human Values. |
| | | C409.6 | Explain awareness on safety and risk and Global Issues. |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C409.1 | 3 | 2 | 2 | 2 | - | - | - | 2 | - | 2 | 1 | 1 | - | - | - |
| C409.2 | 3 | 2 | 2 | 2 | - | - | - | 2 | - | 2 | 1 | 1 | - | - | - |
| C409.3 | 3 | 2 | 2 | 2 | - | - | - | 2 | - | 2 | 1 | 1 | - | - | - |
| C409.4 | 3 | 2 | 2 | 2 | - | - | - | 2 | - | 2 | 1 | 1 | - | - | - |
| C409.5 | 3 | 2 | 2 | 2 | - | - | - | 2 | - | 2 | 1 | 1 | - | - | - |
| C409.6 | 3 | 2 | 2 | 2 | - | - | - | 2 | - | 2 | 1 | 1 | - | - | - |
| C409 | 3 | 2 | 2 | 2 | - | - | - | 2 | - | 2 | 1 | 1 | - | - | - |

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COURSE OUTCOMES – REGULATIONS 2017

| Course Code | Course Name | Course Outcome(CO) Students will be able to | |
|-------------|----------------------------|--|---|
| EC8094 | SATELLITE COMMUNICATION | C410.1 | Analyze the different types of satellites |
| | | C410.2 | Find the orbital determination and launching methods. |
| | | C410.3 | Analyze the earth segment and space segment |
| | | C410.4 | Analyze the satellite Link design |
| | | C410.5 | Learn the Comparison of Multiple access methods |
| | | C410.6 | Design various satellite applications |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO 2 | PSO 3 |
| C410.1 | 3 | 3 | 2 | 2 | 1 | 1 | - | - | - | 2 | - | 2 | 3 | 2 | - |
| C410.2 | 3 | 3 | 2 | 2 | 1 | 1 | - | - | - | 2 | - | 2 | 3 | 2 | - |
| C410.3 | 3 | 3 | 2 | 2 | 1 | 1 | - | - | - | 2 | - | 2 | 3 | 2 | - |
| C410.4 | 3 | 3 | 2 | 2 | 1 | 1 | - | - | - | 2 | - | 2 | 3 | 3 | - |
| C410.5 | 3 | 3 | 2 | 2 | 1 | 1 | - | - | - | 2 | - | 2 | 3 | 2 | - |
| C410.6 | 3 | 3 | 2 | 2 | 1 | 1 | - | - | - | 2 | - | 2 | 3 | 2 | - |
| C410 | 3 | 3 | 2 | 2 | 1 | 1 | - | - | - | 2 | - | 2 | 3 | 2 | - |

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| Course Code | Course Name | Course Outcome(CO) Students will be able to |
|-------------|--------------|--|
| EC8811 | PROJECT WORK | C411.1: Develop the ability to solve a specific problem right from its identification. |
| | | C411.2: Review on literatures and learn more about the problem and its solutions. |
| | | C411.3: Develop the analytical skills, recruitment analysis, design skills. |
| | | C411.4: Learn the various system modules for implementing the project useful for the society and testing with experimental data. |
| | | C411.5: Train the students in preparing projects reports and to face reviews and viva voce examination. |
| | | C411.6: Choose academic learning with experimental learning in a profession |

CO PO MAPPING

| COs | POs | | | | | | | | | | | | PSOs | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------|-------|-------|
| | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| C411.2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| C411.3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| C411.4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| C411.5 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| C411.6 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| C411 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |

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