RAAJDHANI ENGINEERING COLLEGE
Course Outcome

Subject(Code): Mathematics-III (C201) **Year/Semester of Study: 2nd/3rd**

COs	CO Statements
C201.1	Select appropriate numerical methods to apply to various types of problems in engineering and science in consideration of the mathematical operations involved, accuracy requirements and available computational re-sources.
C201.2	Compare different numerical methods with respect to accuracy, efficiency and convergence properties of the algorithm.
C201.3	Measure a recorded observation and understand the concepts of random variables. Demonstrate knowledge of probability distribution function.
C201.4	Have a fundamental knowledge of the concepts of probability theory and translate real world problems into probability models.
C201.5	Perform correlation & regression analysis, construct confidence interval estimates for population parameters, for single & multiple population, based on sample data.
C201.6	Apply theory of estimation in various engineering problems and to do conduct hypothesis tests concerning population parameters, for single & multiple population, based on sample data.

Subject(Code): OOPS Using JAVA (C202) **Year \ Semester of Study: 2nd\3rd**

COs	CO Statements
C202.1	Understand programming concepts, Object-Oriented Programming benefits, and Java fundamentals.
C202.2	Understand oops concepts in Java string manipulation, type conversion, enabling them to design and implement sophisticated software systems.
C202.3	Examine the sophisticated ideas of data abstraction, abstract classes, interfaces, package management, and exception handling. .
C202.4	Demonstrate a comprehensive understanding of multithreading, syncs chaos, conquers deadlocks, masters advanced techniques - concurrency awaits!
C202.5	Analyze I/O operations, collections, GUIs, interactivity, and problem-solve like a champ
C202.6	Create using Java GUI development by mastering both Swing and Java FX frameworks.

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Subject(Code):Organisational behaviour (C203) **Year/Semester of Study: 2nd/3rd**

COs	CO Statements
C203.1	The students can understand and appreciate individuals, interpersonal, and group process for increased effectiveness both within and outside of organizations.
C203.2	The Students will be able to analyse the behavior of individuals and groups inside organizations.
C203.3	The students will be able to apply theoretical and practical insights and problem-solving capabilities for effectively managing the organizational processes.
C203.4	Students will be able to apply different motivational theories and methods to increase the productivity and job satisfaction of employees.
C203.5	The students can evaluate outline significant curriculum and assessment theories, models and research in the higher-education sector.
C203.6	The students will be able to analyze and compare different models used to explain individual behavior related to motivation and rewards.

Subject(Code): Analog Electronics Circuit (C204) **Year/Semester of Study: 2nd/3rd**

COs	CO Statements
C204.1	Students will be able to Learn about BJTs and MOSFETs
C204.2	Students will be able to Design the biasing circuits of BJTs and MOSFETs
C204.3	Students will be able to Design and construct BJT and FET amplifiers
C204.4	Students will be able to Study high frequency response of all amplifiers
C204.5	Students will be able to Construct feedback amplifiers and Oscillator circuits
C204.6	Students will be able to design different Op-Amp amplifier circuits.

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Subject(Code): Network Theory(C205) **Year/Semester of Study: 2nd/3rd**

COs	CO Statements
C205.1	Apply the knowledge of basic circuit laws to simplify the networks using network theorems.
C205.2	Understand transient and steady state response of electrical circuit.
C205.3	Analyze the condition for resonating behaviour of circuits.
C205.4	Analyze electrical circuit(Single phase & Three phase) under sinusoidal steady state condition
C205.5	Analyze electrical circuit using Laplace transformation
C205.6	Understand Two port network behaviour to calculate various parameters of two port networks.

Subject(Code): Environmental Science(206) , Year/Semester of Study: 2nd Yr/3rd

COs	CO Statements
C206.1	Introduced about water management and waste management.
C206.2	Aware of Slogan and poster making event.
C206.3	Know about Cycle rally and Lectures from experts.
C206.4	Know about plantation and full tree growth.
C206.5	Know about Cleanliness and segregation of waste.
C206.6	Aware of varieties of plants and saving electricity .

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Course Outcome

Subject(Code): Analog Electronics Circuit Lab(C207) **Year/Semester of Study: 2nd/3rd**

COs	CO Statements
C207.1	To investigate various biasing methods for BJT and FET circuits.
C207.2	To learn the design and study of DC and AC performance of BJT, FET and MOSFET.
C207.3	To plot and study the frequency response of BJT, FET & OP-AMP.
C207.4	To study the darlington connections and current mirror circuits.
C207.5	To study about the different circuit using Op-Amp and square wave testing.
C207.6	Examine the output from various semiconductor devices in various operational modes.

Subject(Code):Network Theory Lab(C208) **Year/Semester of Study: 2nd/3rd**

COs	CO Statements
C208.1	Understand circuit theorems and concepts in engineering applications.
C208.2	Analyze the response of DC and AC transients.
C208.3	Analyze the characteristics of Electrical circuits.
C208.4	Analyze the frequency response of different filters.
C208.5	Understand self and mutual inductance of two winding single phase transformer.
C208.6	Analyze resonance of series and parallel circuit.

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Subject(Code):OOP Using JAVA Lab (C209), **Year / Semester of Study: 2nd/3rd**

COs	CO Statements
C209.1	Understand the basic syntax and structure of Java programs.
C209.2	Design Java programs using loop control structures.
C209.3	Create classes and objects in Java.
C209.4	Understand of data abstraction, data hiding, inheritance, and polymorphism.
C209.5	Understand thread-based programming, exception handling, and creating web-based applets.
C209.6	Apply knowledge to create and implement interfaces, inner classes, and wrapper classes in Java.

Subject(Code):Evaluation of Internship-I (C210) **Year/Semester of Study: 2nd/3rd**

COs	CO Statements
C210.1	Develop an understanding of real time problems/challenges in contemporary areas of power sector.
C210.2	Understand and analyse real-time challenges in Renewable Energy industry, green energy projects, energy efficiency, energy audit & management and policy & regulations.
C210.3	Explain the impact of engineering solutions, developed in a project, in a global, economic, environmental, and societal context.
C210.4	Realize Standard Operating Procedure of industry for specific project domain.
C210.5	Effectively communicate the learning through project report and oral presentation.
C210.6	Use new tools and technologies.