



INFORMATION TECHNOLOGY ENGINEERING COURSE OUTCOMES

Second Year Information Technology

SEM III

Subject Code	Subject Name	CO's
ITC301	Applied Mathematics III	Students will able to: CO1. Apply the Set theory and Relation concepts. CO2. Apply the Functions and define the recursive functions. CO3. Apply Laplace transform to different applications. CO4. Apply Inverse Laplace transform to different applications. CO5. Identify the permutations and combinations. CO6. Define variable and also identify the mapping.
ITC302	Logic Design	Students will able to: CO1. Understand the concepts of various components to design stable analog circuits. CO2. Represent numbers and perform arithmetic operations. CO3. Minimize the Boolean expression using Boolean algebra and design it using logic gates CO4. Analyze and design combinational circuit. CO5. Design and develop sequential circuits CO6. Translate real world problems into digital logic formulations using VHDL.
ITC303	Data Structures & Analysis	Students will be able to: CO1. Select appropriate data structures as applied to specified problem definition. CO2. Implement operations like searching, insertion, and deletion, traversing mechanism etc. on various data structures. CO3. Students will be able to implement Linear and Non-Linear data structures. CO4. Implement appropriate sorting/searching technique for given problem. CO5. Design advance data structure using Non-Linear data structure. CO6. Determine and analyze the complexity of given Algorithms.
ITC304	Database Management System	Student should be able to: CO1. Explain the features of database management systems and Relational database CO2. Design conceptual models of a database using ER modeling for real life applications and also construct queries in Relational Algebra CO3. Create and populate a RDBMS for a real life application, with constraints and keys, using SQL.



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		<p>CO4. Retrieve any type of information from a data base by formulating complex queries in SQL.</p> <p>CO5. Analyze the existing design of a database schema and apply concepts of normalization to design an optimal database.</p> <p>CO6. Build indexing mechanisms for efficient retrieval of information from a database</p>
ITC305	Principle of Communications	<p>Students will be able to:</p> <p>CO1. Differentiate analog and digital communication systems</p> <p>CO2. Identify different types of noise occurred, its minimization and able to apply Fourier analysis in frequency & time domain to quantify bandwidth requirement of variety of analog and digital communication systems.</p> <p>CO3. Design generation & detection AM, DSB, SSB, FM transmitter and receiver.</p> <p>CO4. Apply sampling theorem to quantify the fundamental relationship between channel bandwidth, digital symbol rate and bit rate</p> <p>CO5. Explain different types of line coding techniques for generation and detection of signals.</p> <p>CO6. Describe Electromagnetic Radiation and propagation of waves.</p>