Semester – III

Engineering Mathematics-III (BTES301)

Course Outcomes:

CO1	Students able to apply the concepts and properties of Laplace transformation
CO2	Students able to apply the concepts of inverse Laplace Transform with its property to solve
CO3	Linear Differential Equation with given initial conditions.
CO4	Students able to find Fourier transform of given function by using properties and identities
CO5	Students able to Solve various partial differential equations such as one and two dimensional

An Introduction to Artificial Intelligence (BTAIC302)

Course Outcomes:

CO1	Discuss Meaning, Scope and Stages of Artificial Intelligence
CO2	Understand and Implement Problem Space and Search Strategies for Solving problems.
CO3	Discuss the Search Techniques and Knowledge Representation.
CO4	Select most appropriate path finding algorithm amongst available candidate solution
CO5	Apply search for solving Constraint Satisfaction Problems

Data Structure and Algorithm using Python (BTAIC303)

Course Outcomes:

CO1	Write programs using basic concepts of Python Programming
CO2	Apply the concepts of functional and object oriented Programming to solve given problem.
CO3	Implement algorithms for linear data structures like arrays, linked structures, stacks, queues
CO4	Implement algorithms for non-linear data structures like Trees and Graphs.
CO5	Discuss the computational efficiency of the principal algorithms for sorting, searching, and

Computer Architecture & Operating Systems (BTESC304)

Course Outcomes:

CO1	Understand the theory and architecture of central processing unit & Analyze some of the design issues in terms of speed, technology, cost, performance
CO2	Use appropriate tools to design verify and test the CPU architecture & Learn the concepts of
CO3	parallel processing, pipelining and inter processor communication
CO4	Understand the architecture and functionality of central processing unit & Exemplify in a
CO5	better way the I/O and memory organization, Memory management systems, Virtual Memory

Digital Logic & Signal Processing (BTESC305)

Course Outcomes:

CO1	Use the basic logic gates and various reduction techniques of digital logic circuit in detail
CO2	Understand mathematical description and representation of various signals and systems
CO3	Develop input output relationship for linear shift invariant system and understand the
CO4	convolution operator for discrete time system
CO5	Understand use of different transforms and analyze the discrete time signals and systems

Semester – IV

Data Analysis (BTAIC401)

Course Outcomes:

CO1	Understand the notion of an algorithm, asymptotic notations.
CO2	Analyze the divide conquer techniques.
CO3	Explain the algorithm design techniques using backtracking, branch and bound.
CO4	Understand the algorithm design techniques using greedy algorithms.
CO5	Understand the algorithm design techniques using dynamic programming.

Database Management System (BTAIC402)

Course Outcomes:

CO1	Master the basic concepts of relational DBMS and its types
CO2	Perform various types of operations on relational databases using DDL, DML, DCL in SQL
CO3	Understand the concept of how non-relational databases differ from relational databases from a practical perspective
CO4	Master the basic concepts of designing NoSQL database management system.
CO5	Able to Identify what type of NoSQL database to implement based on business requirements

Basic Human Rights (BTHM403)

Course Outcomes:

CO1	To understand the history of human rights
CO2	To respect others caste, religion, region and culture.
CO3	To be aware of their rights as Indian citizens
CO4	To be able to understand the importance of groups and communities in the society
CO5	To be able to realize the philosophical and cultural basis and historical perspective of human

Probability Theory and Random Processes (BTBS404)

Course Outcomes:

CO1	Students will be able to Understand the fundamental knowledge of the concepts of probability and have knowledge of standard distributions which can describe real life phenomenon
CO2	Students will be able to Understand the basic concepts of one and two dimensional random variables and apply in engineering applications.
CO3	Students will be able to Understand and apply the concept of correlation and spectral densities
CO4	Students will be able to Understand and apply the concept of Linear Regression
CO5	Students will have Knowledge about Estimating and testing a hypothesis, using critical values to draw conclusions and determining probability of making errors in hypothesis tests

Image Processing & Computer Vision (BTAIPE405B)

Course Outcomes:

CO1	To implement fundamental image processing techniques required for computer vision
CO2	Understand Image formation process
CO3	To perform morphological operations on image.
CO4	Extract features form Images and do analysis of Images
CO5	To develop applications using computer vision techniques