Fabtech Technical Campus College of Engineering Sangola

Department of Artificial Intelligence & Data Science

SY B. Tech SEM-IV

Sr. No.	Subject		CO Statement
1.	Data Analysis (BTAIC401)	CO1	Apply preprocessing techniques to convert raw data so as to enable further analysis
		CO2	Apply exploratory data analysis and create insightful visualizations to identify patterns
		CO3	Understand how to derive the probability density function of transformations of random variables and use these techniques to generate data from various distributions
		CO4	Understand the statistical foundations of data science and analyze the degree of certainty of predictions using statistical test and models
		CO5	Introduce machine learning algorithms for prediction and to derive insights
2	Database Management System (BTAIC402)	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
3	Basic Human Rights (BTAIC403)	CO1	Students will be able to understand the history of human rights.
		CO2	Students will learn to respect others caste, religion, region and culture.
		CO3	Students will be aware of their rights as Indian citizen
		CO4	Students will be able to understand the importance of groups and communities in the society.
4	Probability Theory and Random Processes (BTAIC404)	CO1	Demonstrate understanding of fundamental concepts in probability
		CO2	Understand how to derive the probability density function of transformations of random variables and use these techniques to generate data from various distributions

		CO3	Apply preprocessing techniques to convert raw data so as to enable further analysis
		CO4	Understand the statistical foundations of data science and analyze the degree of certainty of predictions using statistical test and models
5	Programming in JAVA (BTAIC405D)	CO1	To understand basics of JAVA
		CO2	To use Packages & interfaces
		CO3	To apply Exception Handling & Multithreaded Programming
		CO4	To acquire Java Database Connectivity
		CO5	To recognize Applet, Event Handling and AWT
6	Data Analysis Lab and Database Management System Lab (BTAIL406)	CO1	Apply exploratory data analysis and create insightful visualizations to identify patterns
		CO2	Understand how to derive the probability density function of transformations of random variables and use these techniques to generate data from various distributions
		CO3	Perform various types of operations on relational databases using DDL, DML, DCL in SQL
		CO4	Understand the concept of how non-relational databases differ from relational databases from a practical perspective.
		CO5	Master the basic concepts of designing NoSQL database management system.
7	SEMINAR-II (BTAIS407)	CO1	Establish motivation for any topic of interest and develop a thought process for technical presentation.
		CO2	Organize a detailed literature survey and build a document with respect to technical publications.
		CO3	Analysis and comprehension of proof-of-concept and related data.
		CO4	Effective presentation and improve soft skills.