

Department of Computer Science and Business Systems

List of Course Outcomes for Academic year 2023-2024

S.No.	Year & Semester	Course Code	Course Name	Course Outcomes
1.	II / III	MA3354	Discrete Mathematics	CO1:Have knowledge of the concepts needed to test the logic of a program. CO2:Have an understanding in identifying structures on many levels. CO3:Be aware of a class of functions which transform a finite set into another finite set which relates to input and output functions in computer science. CO4:Be aware of the counting principles. CO5:Be exposed to concepts and properties of algebraic structures such as groups, rings and fields.
2.	II / III	CS3351	Digital Principles and Computer Organization	CO1 : Design various combinational digital circuits using logic gates CO2 : Design sequential circuits and analyze the design procedures CO3 : State the fundamentals of computer systems and analyze the execution of an instruction CO4 : Analyze different types of control design and identify hazards CO5 : Identify the characteristics of various memory systems and I/O communication
3.	II / III	CW3301	Fundamentals of Economics	CO1: To analyze the supporting of price, income and substitution effects in the consumers and producers surplus. CO2: To compare the equilibrium of a firm under perfect competition, monopoly and monopolistic competition. CO3 : To study the concepts of demand for money and supply of money with appropriate model in macro economic analysis. CO4: To examine and evaluate the problems of voluntary and involuntary unemployment



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4.	II / III	CS3391	Object Oriented Programming	<p>CO1:Apply the concepts of classes and objects to solve simple problems</p> <p>CO2:Develop programs using inheritance, packages and interfaces</p> <p>CO3:Make use of exception handling mechanisms and multithreaded model to solve real world problems</p> <p>CO4:Build Java applications with I/O packages, string classes, Collections and generics concepts</p> <p>CO5:Integrate the concepts of event handling and JavaFX components and controls for developing GUI based applications</p>
5.	II / III	AD3351	Design and Analysis of Algorithms	<p>CO1: Analyze the efficiency of recursive and non-recursive algorithms mathematically</p> <p>CO2: Analyze the efficiency of brute force, divide and conquer, decrease and conquer, Transform and conquer algorithmic techniques</p> <p>CO3: Implement and analyze the problems using dynamic programming and greedy algorithmic techniques.</p> <p>CO4: Solve the problems using iterative improvement techniques for optimization.</p> <p>CO5: Compute the limitations of algorithmic power and solve the problems using backtracking and branch and bound techniques.</p>
6.	II / III	AD3491	Fundamentals of Data Science and Analytics	<p>CO1: Explain the data analytics pipeline</p> <p>CO2: Describe and visualize data</p> <p>CO3 : Perform statistical inferences from data</p> <p>CO4 : Analyze the variance in the data</p> <p>CO5 : Build models for predictive analytics</p>
7.	II / III	CW3311	Business Communication Laboratory I	<p>CO1:Speak fluently in English without errors and present themselves as effective communicators.</p> <p>CO2:Use business vocabulary and take part comfortably in business conversations in English.</p> <p>CO3:Draft letters and reports with appropriate formats and choice of words.</p> <p>CO4:Perform well in team and group, resolve conflicts in workplaces and acquire leadership skills.</p> <p>CO5:Understand women in all spheres and cultural behaviours of the people and approach them with positive human values.</p>



AKSHAYA

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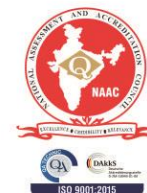
8.	II / III	CS3381	Object Oriented Programming Laboratory	CO1 : Design and develop java programs using object oriented programming concepts CO2 : Develop simple applications using object oriented concepts such as package, exceptions CO4 : Create GUIs and event driven programming applications for real world problems CO3: Implement multithreading, and generics concepts CO5: Implement and deploy web applications using Java
9.	II/IV	MA3391	PROBABILITY AND STATISTICS	CO1:Understand the fundamental knowledge of the concepts of probability and have knowledge of standard distributions which can describe real life phenomenon. CO2:Understand the basic concepts of one and two dimensional random variables and apply in engineering applications. CO3:Apply the concept of testing of hypothesis for small and large samples in real life problems. CO4:Apply the basic concepts of classifications of design of experiments in the field of agriculture and statistical quality control. CO5:Have the notion of sampling distributions and statistical techniques used in engineering and management problems.
10.	II/IV	CS3492	DATABASE MANAGEMENT SYSTEMS	CO1:Construct SQL Queries using relational algebra CO2:Design database using ER model and normalize the database CO3: Construct queries to handle transaction processing and maintain consistency of the database CO4: Compare and contrast various indexing strategies and apply the knowledge to tune the performance of the database CO5: Appraise how advanced databases differ from Relational Databases and find a suitable database for the given requirement.
11.	II/IV	AL3452	OPERATING SYSTEMS	CO1: Analyze various scheduling algorithms and process synchronization. CO2 : Explain deadlock, prevention and avoidance algorithms. CO3 : Compare and contrast various memory management schemes. CO4 : Explain the functionality of file systems I/O systems, and Virtualization CO5 : Compare iOS and Android Operating Systems.
12.	II/IV	CW3401	INTRODUCTION TO BUSINESS SYSTEMS	CO1: To demonstrate and strengthen business quality and motivation in students CO2: Examine basic business skills and measuring business performance



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				CO3: To demonstrate business Applications using business software CO4: Apply Enterprise application and Business application CO5: Use Business Intelligence in e-business for marketing and sales.
13.	II/IV	AL3451	MACHINE LEARNING	CO1: Explain the basic concepts of machine learning. CO2 : Construct supervised learning models. CO3 : Construct unsupervised learning algorithms. CO4: Evaluate and compare different models
14.	II/IV	CS3481	DATABASE MANAGEMENT SYSTEMS LABORATORY	CO1: Create databases with different types of key constraints. CO2: Construct simple and complex SQL queries using DML and DCL commands. CO3: Use advanced features such as stored procedures and triggers and incorporate in GUI based application development. CO4: Create an XML database and validate with meta-data (XML schema). CO5: Create and manipulate data using NOSQL database.
15.	II/IV	AL3461	MACHINE LEARNING LABORATORY	CO1: Apply suitable algorithms for selecting the appropriate features for analysis. CO2: Implement supervised machine learning algorithms on standard datasets and evaluate the performance. CO3: Apply unsupervised machine learning algorithms on standard datasets and evaluate the performance. CO4: Build the graph based learning models for standard data sets. CO5: Assess and compare the performance of different ML algorithms and select the suitable one based on the application.
16.	II/IV	CW3411	BUSINESS COMMUNICATION LABORATORY II	CO1: Speak fluently in English without errors in the sentence construction and hence present themselves as effective English communicators. CO2: Differentiate between vocabularies used as adjectives, verbs. CO3 Deliver a public speech according to the need of the audience and also be aware of positive body language to be manifested during a speech. CO4: Deal with the deeper parameters of working in teams like team motivation, multicultural team activity and team conflict resolution. CO5: Set realistic goals in terms of personal and professional growth.