

M. Sc. Computer Science - I 2024-25

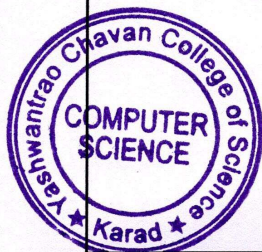
COURSE OUTCOMES (COs)

SEMESTER	COURSE CODE	COURSE NAME	COURSE OUTCOME	
SEM – I	MMT-101	Design and Analysis of Algorithms	CO1	Analyze the asymptotic performance of algorithms.
			CO2	Employ graphs to model real life problems, when appropriate. Develop algorithms that employ graph computations as key components, and analyze them.
			CO3	Mapping of data structures like Stack, Queue and Linked List to real life problems.
			CO4	Be familiar with advanced data structures such as balanced search trees, hash tables, Red-Black trees, B-trees.
			CO5	Understand Divide & Conquer approach, Greedy algorithm, Backtracking approach for algorithm design.
			CO6	Be familiar with Branch and Bound & Dynamic programming
	MMT-102	Advanced Database Management System	CO1	Demonstrate an understanding of the relational data model.
			CO2	Formulate, using SQL, solutions to a broad range of query and data update problems.
			CO3	Use PL/SQL for handling data in a database as per the user's requirement using programming features
			CO4	Define various cursors and its implementation along with procedure and functions.
			CO5	To study usage and applications of parallel and distributed databases, object relational database.
			CO6	To acquire knowledge on NoSQL databases.
	MMPR-103	Practical-I	CO1	To become familiar with the programming environment.
			CO2	To implement advanced data structures
			CO3	Apply data structures in real life problems.
			CO4	Able to create tables and generate queries
			CO5	To be familiar with different types of databases.
	MMT-104	Web Design	CO1	Understand the basics of web design



			CO2	Gain proficiency in HTML and CSS coding languages
			CO3	Understand the importance CSS
			CO4	Utilize the JavaScript with websites
	MET-105	Cyber Security	CO1	Realize the need for Cyber Security
			CO2	Understand the need for Security in day to day communications
			CO3	Understand the vulnerabilities in the Network and Computer System
			CO4	Understand the cyber law and Cyber Forensics
			CO5	Understand the mobile forensics.
	RM-107	Research Methodology	CO1	Understand the fundamental concepts and principles of research methodology in computer science
			CO2	Identify and select appropriate research methodologies based on the research problem
			CO3	Formulate research questions and hypotheses in the context of computer science research
			CO4	Design and execute research studies using quantitative and qualitative approaches
			CO5	Apply ethical considerations in conducting computer science research
			CO6	Develop critical thinking and problem-solving skills required for computer science research

SEM – II	MMT-201	Advanced Java	CO1	To become familiar with the features of Java Language.
			CO2	To become comfortable with concepts such as Classes, Objects, Inheritance, Polymorphism and Interfaces.
			CO3	To understand Database connectivity using JDBC Drivers.
			CO4	To design application using JSP, Servlet and RMI
			CO5	To familiar with hibernate, struts and spring framework
	MMT-202	Artificial Intelligence	CO1	Apply problem solving by intelligent search approach.
			CO2	Represent knowledge using knowledge representation techniques.



			CO3	Understand working of Artificial Neural Networks.
			CO4	Derive solutions for problems with uncertainty using Fuzzy theory.
			CO5	To develop a good understanding of Natural Language Processing and Genetic algorithm
	MMPR-203	Practical-II	CO1	To become acquainted with programming environment.
			CO2	Student will be able to use advanced technology in Java such as remote method Invocation and JDBC.
			CO3	Student will learn how to work with Java Frameworks.
			CO4	Student will be able to develop web application using Java Servlet and Java Server Pages technology.
			CO5	Design and develop solutions for informed and uninformed search problems in AI.
	MMT-204	Angular JS	CO1	Understand the fundamental concepts of Angular JS and its role in web development
			CO2	Learn how to set up a development environment for Angular JS projects
			CO3	Gain proficiency in using directives, filters, and expressions to manipulate and display data
	MET-206	Block Chain Technology	CO1	Understand the concept of Block chain Technology, transactions, block, PoW, Consensus
			CO2	Understand the simulation of block chain technology without any central controlling or trusted agency and how bitcoin crypto currency work.
			CO3	Understand the concept of digital currency, how it can be protected against fraud, scam, hacking and devaluation.
			CO4	Understand the concept of bitcoin and Ethereum
	OJT-207	Internship	CO1	gain industrial experience
			CO2	learn office ethics
			CO3	learn to work-in team




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