

**MAR GREGORIOS COLLEGE OF ARTS & SCIENCE
DEPARTMENT OF COMPUTER APPLICATION**

PROGRAMME OUTCOMES

PO1: Provide strong foundations in fundamentals of Computer Science and applications, inter disciplinary courses and electives for widening the domain expertise.

PO2: Design and develop software based solutions for real world problems, serving effectively to the requirements of computer field and Society

PO3: Understand the basic principles and concepts of Computer applications and integrate the knowledge gained in Computer application domain with practical needs of the society and be an ethically and socially responsible Computer Application Professional

PO4: Explore emerging technologies in diverse areas of Computer Application and inculcate skills for successful career, entrepreneurship and higher studies

PO5: Ability to apply the concepts of Computer and practices via emerging technologies and Software development tools.

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COURSE OUTCOMES

COURSE NAME	COURSE CODE	COURSE OUT COMES
Semester- I		
Subject name:- Problem Solving using Python	Subject code	CO1. Describe the core syntax and semantics of Python programming language.
		CO2. To Understand the principles of Python and acquire skills in programming in python
		CO3. Discover the need for working with the strings and functions
		CO4. Interpret the fundamental Python syntax and semantics and be fluent in the use of Python control flow statements.
		CO5. Understand the usage of packages and Dictionaries.
Subject name:- Mathematics I	Subject code	CO1. Knowledge about the basic concept of ALGEBRA.
		CO2. Familiar about the adaptation of THEORY OF EQUATIONS
		CO3. Understanding the concept on MATRICES.
		CO4. Knowledge on application of TRIGONOMETRY.
		CO5. Importance of using DIFFERENTIAL CALCULUS.
Semester- 2		
Subject name : Object Oriented Programming Concepts using C ++	Subject code	CO1. To inculcate knowledge on Object-oriented programming concepts using C++
		CO2. To gain Knowledge on programming with C++
		CO3. To write programs using OOP concepts like Abstraction, Encapsulation
		CO4. To write programs using OOP concepts like Inheritance and Polymorphism
		CO5. To write programs dynamic object – Binding, Polymorphism and Virtual Functions
Subject name: Allied II – Mathematics II	Subject code	CO1. Importance of using DIFFERENTIAL EQUATIONS
		CO2. Understanding the basis of PARTIAL DIFFERENTIAL EQUATIONS.
		CO3. Deriving solutions through LAPLACE TRANSFORMATIONS.

		CO4. Introduction on VECTOR ANALYSIS
		CO5. Solving LINE, SURFACE & VOLUME INTEGRALS.
Semester- 3		
Subject name : Data Structures	Subject code	CO1. Implement abstract data types for linear data structures.
		CO2. Apply the different linear and non linear data structures to problem solutions
		CO3. Critically analyze the various sorting algorithms.
		CO4. To compare and contrast the various data structures
		CO5. To design and implement the concepts of searching algorithms
Subject name : Java programming	Subject code	CO1. To understand the concepts of Object Oriented Programming.
		CO2. To learn about the control structures, class with attributes and methods used in Java.
		CO3. Knowledge of the structure and model of the Java programming language.
		CO4. Understand the basic principles of creating Java applications with GUI.
		CO5. Demonstrate use of string and String Buffers, Develop multithreaded programs in Java.
Subject name : Computer Organization	Subject code	CO1. To understand the basic organization of computers and the working of each component and CPU
		CO2. Describe the major components of a computer system and state their function and purpose
		CO3. Describe the microstructure of a processor
		CO4. Demonstrate the ability to program a microprocessor in assembly language.
		CO5. Classify and describe the operation DMA and peripheral Interfaces.
Subject name : Financial Accounting	Subject code	CO1. To enable the students to know the Principles of Accounting in General
		CO2. To Understand the System of Keeping Financial Accounting Records
		CO3. After finishing this course students are well acquainted with Principles of accounting.
		CO4. The well equipped in the system of

		keeping Financial Accounting Records.
		CO5. Hire purchase and Instalment purchase
Semester- 4		
Subject name : - Computer Network	Subject code	CO1. To understand the concept of Computer network
		CO2. To impart knowledge about networking and inter networking devices
		CO3. Analyze different network models
		CO4. Describe, analyze and compare a number of data link, network and transport layer
		CO5. Analysing key networking protocols and their hierarchical relationship in the conceptual model like TCP/IP and OSI
Subject name : Open Source Technologies	Subject code	CO1. To provide a basic idea of Open source technology
		CO2. software development process to understand the role and future of open source software
		CO3. The industry along with the impact of legal, economic and social issues for such software
		CO4. To recognize the benefits and features of Open Source Technology
		CO5. To interpret, contrast and compare open source products among themselves
Subject name : E-Commerce Technologies	Subject code	CO1. To provide students with an overview and understanding of e-commerce with a specific emphasis on Internet Marketing
		CO2. To explore the major issues associated with e-commerce-security, privacy, intellectual property rights, authentication, encryption, acceptable use policies, and legal liabilities.
		CO3. Obtain a general understanding of basic business management concepts.
		CO4. Have complete knowledge about basic technical concepts relating to E-Commerce.
		CO5. Obtain thorough understanding about the security issues, threats and challenges of E-Commerce.
Subject name : Cost and Management Accounting	Subject code	CO1. This Course introduces the concepts of Cost and Management Accounting
		CO2. To learn the theory and practices of cost accounting.
		CO3. To understands the concepts of

		management accounting.
		CO4. Calculation of Wages – Methods of Incentive for Schemes.
		CO5. Budget and Budgetary Control: Procedure and Utility
Semester- 5		
Subject name : - Software Engineering	Subject code	CO1. To introduce the software development life cycles
		CO2. To introduce concepts related to structured and objected oriented analysis & design
		CO3. To provide an insight into UML and software testing techniques
		CO4. The students should be able to specify software requirements, design the software using tools
		CO5. To write test cases using different testing techniques.
Subject name : Operating System	Subject code	CO1. To understand the fundamental concepts and role of Operating System.
		CO2. Compare the performance of Scheduling Algorithms
		CO3. To understand the Memory Management policies
		CO4. To gain insight on I/O and File management techniques
		CO5 Analyze resource management techniques
Subject name : Relational Database Management System	Subject code	CO1. Gain a good understanding of the architecture and functioning of Database Management Systems
		CO2. Describe basic concepts of database system
		CO3. Design a Data model and Schemas in RDBMS
		CO4. Analyze functional dependencies for designing robust Database
		CO5. Understand the need of transaction processing and learn techniques for controlling the consequences of concurrent data access.
Subject name : Resource Management	Subject code	CO1. SIMPLEX METHOD usage to solve the problems.
		CO2. Understand the utilization of PERT & CPM in project management.
		CO3. Knowledge on solving

Techniques		SEQUENCING PROBLEMS.
		CO4. Basic concept on GAME THEORY
		CO5. Application of TRANSPORTATION & ASSIGNMENT model in Logistics.
Subject name : Value education	Subject code	CO1. Value are socially accepted norms to e evaluate objects, persons and situations that form part and parcel of sociality.
		CO2. A value system is a set of consistent values and measures.
		CO3. Values can be defined as broad preferences concerning appropriate courses of action or outcomes
		CO4. There are representative values like, Equal rights for all, Excellence deserves admiration.
		CO5. Values are related to the norms of a culture
Semester - 6		
Subject name : Web Design and Development	Subject code	CO1. To understand Web based programming and scripting languages
		CO2. To learn the basic web concepts and to create rich internet applications that use most recent client-side programming technologies.
		CO3. Ability to optimize page styles and layout with Cascading Style Sheets (CSS).
		CO4. Website using client-side web programming languages like HTML, DHTML, CSS, XML, JavaScript, and AJAX.
		CO5. Ability to Understand, analyze and apply the role of languages to create a capstone
Subject name : Data Mining	Subject code	CO1. To learn about data mining Concepts
		CO2. To study the different data mining techniques
		CO3. To have knowledge in Data mining concepts
		CO4. To apply Data mining concepts in different fields
		CO5. To have knowledge in Data mining Application.
Subject name : Mobile Application Development	Subject code	CO1. To make the student understand the basic concepts of mobile application development, be aware of Characteristics of mobile applications, User-interface design, basics of graphics and multimedia.

		CO2. To gain knowledge about testing and publishing of Android application
		CO3. To explain the basics of mobile application development
		CO4. Develop Android application with User interface, networking and animation.
		CO5. Use simulator tools to test and publish the application.
Subject name : IOT and its Applications	Subject code	CO1. To understand the concepts of Internet of Things and the application of IoT.
		CO2. To Understand the vision of IoT from a global context
		CO3. Use of Devices, Gateways and Data Management in IoT.
		CO4. Design IoT applications in different domain and be able to analyze their performance
		CO5. Implement basic IoT applications on embedded platform.