

MARWARI VIDYALAYA SANCHALIT
**SMT. KAMALADEVI GAURIDUTT MITTAL COLLEGE
OF ARTS & COMMERCE**

ISO 9001 : 2015 Certified

Recipient of Asia Pacific Excellence Award



Bachelor of Science(Computer Science)

PROGRAMME OUTCOMES:-

PO1: To develop an understanding and knowledge of the basic theory of Computer Science with good foundation on theory, systems and applications.

PO2: To provide training in emergent computing technologies which lead to innovative solutions for industry and academia.

PO3: To develop the professional skill set required for a career in an information technology oriented business or industry.

SEM-I

PROGRAMME SPECIFIC OUTCOMES:-

PSO1 – statics and directs maths learns in this semester programming languages python and C++ are learns in this semester.

PSO2: programming languages python and C++ are learns in this semester logic gates are also implemented in this semester.



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DIGITAL SYSTEM & ARCHITECTURE

COURSE OUTCOME:

After completion of this course the outcome will be as follows :

CO1: To have an understanding of Digital systems and operation of a digital computer.

CO2: To learn different architectures & organizations memory systems, processor organization and control unit.

CO3: To understand the working principles of multiprocessor and parallel organization's as advanced computer architectures



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INTRODUCTION TO PROGRAMING WITH PYTHON

COURSE OUTCOME:

After completion of this course the outcome will be as follows :

- CO1:** To learn how to design and program Python applications.
- CO2:** To explore the innards of Python Programming and understand components of Python Program
- CO3:** To define the structure and components of a Python program.
- CO4:** To learn how to write loops and decision statements in Python
- CO5:** To learn about inbuilt input/output operations and compound data types in Python



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LINUX OPERATING SYSTEM

COURSE OUTCOME:

After completion of this course the outcome will be as follows :

CO1: To learn basic concepts of Linux in terms of operating system

CO2: To learn use of various shell commands with regular expressions

CO3: To set Linux Environment variables and learn setting file permissions to maintain Linux security implementation

CO4: To learn installation of compilers and programming using C and Python languages on Linux platform




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OPEN SOURCE TECHNOLOGIES

COURSE OUTCOME:

After completion of this course the outcome will be as follows :

CO1: Understand the difference between open-source software and commercial software.

CO2: Understand the policies, licensing procedures and ethics of FOSS.

CO3: Understand open-source philosophy, methodology and ecosystem.

CO4: Awareness with Open-Source Technologies.



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DISCRETE MATHEMATICS

COURSE OUTCOME:

After completion of this course the outcome will be as follows :

- CO1:** The purpose of the course is to familiarize the prospective learners with mathematical structures that are fundamentally discrete.
- CO2:** This course will enhance prospective learners to reason and ability to articulate mathematical problems.
- CO3:** This course will introduce functions, forming and solving recurrence relations and different counting principles. These concepts will be useful to study or describe objects or problems in computer algorithms and programming languages and these concepts can be used effectively in other courses.




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DESCRIPTIVE STATISTICS

COURSE OUTCOME:

After completion of this course the outcome will be as follows :

- CO1:** To develop the learners ability to deal with different types of data.
- CO2:** To enable the use of different measures of central tendency and dispersion wherever relevant.
- CO3:** To make learner aware about the techniques to check the Skewness and Kurtosis of data.
- CO4:** To make learner enable to find the correlation between different variables and further apply the regression analysis to find the exact relation between them.
- CO5:** To develop ability to analyze statistical data through R software.



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SOFT SKILLS

COURSE OUTCOME:

After completion of this course the outcome will be as follows :

- CO1:** Understand the significance and essence of a wide range of soft skills.
- CO2:** Learn how to apply soft skills in a wide range of routine social and professional settings.
- CO3:** Learn how to employ soft skills to improve interpersonal relationships.
- CO4:** Learn how to employ soft skills to enhance employability and ensure workplace and career success.



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SEM-II

PROGRAMME SPECIFIC OUTCOMES:-

PSO1 – Data structure mathematical base calculations, data base concepts are in this semester.

PSO2: E-commerce techniques digital marketing and advanced python techniques are learnt.




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DESIGN & ANALYSIS OF ALGORITHMS-II

COURSE OUTCOME:

After completion of this course the outcome will be as follows

- CO1:** To make students understand the basic principles of algorithm design
- CO2:** To give idea to students about the theoretical background of the basic data structures
- CO3:** To familiarize the students with fundamental problem-solving strategies like searching, sorting, selection, recursion and help them to evaluate efficiencies of various algorithms.
- CO4:** To teach students the important algorithm design paradigms and how they can be used to solve various real world problems.



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ADVANCE PHYTHON PROGRAMING-II

COURSE OUTCOME:

After completion of this course the outcome will be as follows

- CO1:** To learn how to design object-oriented programs with Python classes.
- CO2:** To learn about reading, writing and implementing other operation on files in Python.
- CO3:** To implement threading concept and multithreading on Python.
- CO4:** To design GUI Programs and implement database interaction using Python.
- CO5:** To know about use of regular expression and handling exceptions for writing robust python programs .



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INTRODUCTION TO OOPs USING c++ - II

COURSE OUTCOME:

After completion of this course the outcome will be as follows

CO1: Apply the concepts of OOPS like encapsulation, inheritance and polymorphism.

CO2: Understand the approach of file handling

CO3: Understand how to model classes and relationships using UML.



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DATA BASE SYSTEMS-II



COURSE OUTCOME:

After completion of this course the outcome will be as follows

- CO1:** To make students aware fundamentals of database system.
- CO2:** To give idea how ERD components helpful in database design and implementation.
- CO3:** To experience the students working with database using MySQL.
- CO4:** To familiarize the student with normalization, database protection and different DCL Statements.
- CO5:** To make students aware about importance of protecting data from unauthorized users.



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CALCULUS-II



COURSE OUTCOME:

After completion of this course the outcome will be as follows

CO1: The primary objective of this course is to introduce the basic tools of Calculus which are helpful in understanding their applications to the real world problems.

CO2: The course is designed to have a grasp of important concepts

CO3: It covers topics from as basic as definition of functions to partial derivatives of functions in a gradual and logical way.

CO4: The learner is expected to solve as many examples as possible to get complete clarity and of the topics covered.



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COURSE OUTCOME:

After completion of this course the outcome will be as follows

- CO1:** To make learner aware about basic probability axioms and rules and its application.
- CO2:** To understand the concept of conditional probability and Independence of events.
- CO3:** To make learner familiar with discrete and continuous random variables as well as standard discrete and continuous distributions.
- CO4:** To learn computational skills to implement various statistical inferential approaches.



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E-COMMERCE & DIGITAL MARKETING-II



COURSE OUTCOME:

After completion of this course the outcome will be as follows

CO1: To understand increasing significance of E-Commerce and its applications in Business and Various Sectors.

CO2: To provide an insight on Digital Marketing activities on various Social Media platforms and its emerging significance in Business.

CO3: To understand Latest Trends and Practices in E-Commerce and Digital Marketing, along with its Challenges and Opportunities for an Organization




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SEM-III

PROGRAMME SPECIFIC OUTCOMES:-

PSO1 –Database systems , java programming language are learnt in this semester

PSO2: Operating systems concepts networking is study by students in this semester.




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THEORY OF COMPUTATION-III

COURSE OUTCOME:

After completion of this course the outcome will be as follows

- CO1: To Understand Grammar and Languages. used in design of compilers
- CO2: To Learn about Automata theory and its application in Language Design.
- CO3 Learn about Turing Machines and Pushdown Automata.
- CO4: Understand Linear Bound Automata and its applications.



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CORE JAVA-III



COURSE OUTCOME:

After completion of this course the outcome will be as follows

CO1: Object oriented programming concepts using Java.

CO2: Knowledge of input, its processing and getting suitable output.

CO3: Learn and design of various gui and event handling in java.

CO4: Understand the design of web application.




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OPERATING SYATEM-III



COURSE OUTCOME:

After completion of this course the outcome will be as follows

CO1: To provide a understanding of operating system, its structures and functioning.

CO2: Develop and master understanding of algorithms used by operating systems for various purposes.

CO3: Learns the design and protocols of various layers of OSI model



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DATABASE MANAGEMENT SYSTEMS-III

COURSE OUTCOME:

After completion of this course the outcome will be as follows

CO1: Master concepts of stored procedure and triggers and its use.

CO2: Learn about using PL/SQL for data management.

CO3: Understand concepts and implementations of transaction management and crash recovery.




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COMBINATORICS AND GRAPH THEORY-III

COURSE OUTCOME:

After completion of this course the outcome will be as follows

- CO1:** Appreciate beauty of combinatorics and how combinatorial problems naturally arise in many settings.
- CO2:** Understand the combinatorial features in real world situations and Computer Science applications.
- CO3:** Apply combinatorial and graph theoretical concepts to understand Computer Science concepts and apply them to solve problems



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PHYSICAL COMPUTING & LOT PROGRAMMING-III

COURSE OUTCOME:

After completion of this course the outcome will be as follows

- CO1:** Enable learners to understand System On Chip Architectures.
- CO2:** Introduction and preparing Raspberry Pi with hardware and installation.
- CO3:** Learn physical interfaces and electronics of Raspberry Pi and program them using practical's
- CO4:** Learn how to make consumer grade IoT safe and secure with proper use of protocols.



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WEB PROGRAMMING-III

COURSE OUTCOME:

After completion of this course the outcome will be as follows

- CO1:** To design valid, well-formed, scalable, and meaningful pages using emerging technologies.
- CO2:** Understand the various platforms, devices, display resolutions, viewports, and browsers that render websites.
- CO3:** To develop and implement client-side and server-side scripting language programs.
- CO4:** To develop and implement Database Driven Websites.



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SEM-IV

PROGRAMME SPECIFIC OUTCOMES:-

PSO1 – Students learnt to develop applications in android , react.js and networking concepts

PSO2: They also learnt hardware using IOT and software testing techniques.




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FUNDAMENTALS OF ALGORITHMS-IV

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COURSE OUTCOME:

After completion of this course the outcome will be as follows

- CO1:** To understand basic principles of algorithm design and why algorithm analysis is important.
- CO2:** To understand how to implement algorithms in Python.
- CO3:** To understand how to transform new problems into algorithmic problems with efficient solutions.
- CO4:** To understand algorithm design techniques for solving different problems.



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ADVANCED JAVA-IV



COURSE OUTCOME:

After completion of this course the outcome will be as follows

- CO1:** Understand the concepts related to Java Technology.
CO2: Explore and understand use of Java Server Programming.
CO3: Understand the database connectivity using java.
CO4: Explore and learn the concept of Servlet programming




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COMPUTER NETWORKS-IV

COURSE OUTCOME:

After completion of this course the outcome will be as follows

CO1: Learner will be able to understand the concepts of networking, which are important for them to be known as a 'networking professionals'.

CO2: Useful to proceed with industrial requirements and International vendor certifications.

CO3: learner will be able to understand the concept of hubs, switches and other components used for networking.



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LINEAR ALGEBRA USING PYTHON-IV

COURSE OUTCOME:

After completion of this course the outcome will be as follows

CO1: Appreciate the relevance of linear algebra in the field of computer science.

CO2: Understand the concepts through program implementation.

CO3: Instill a computational thinking while learning linear algebra.



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NET TECHNOLOGIES-IV

COURSE OUTCOME:

After completion of this course the outcome will be as follows

- CO1:** Understand the NET framework.
- CO2:** Develop a proficiency in the C# programming language.
- CO3:** Proficiently develop ASP NET web applications using C#.
- CO4:** Use ADO.NET for data persistence in a web application



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ADDROID DEVELOPER FUNDAMENTALS-IV

COURSE OUTCOME:

After completion of this course the outcome will be as follows

- CO1:** Understand the requirements of Mobile programming environment.
- CO2:** Learn about basic methods, tools and techniques for developing Apps.
- CO3:** Explore and practice App development on Android Platform.
- CO4:** Develop working prototypes of working systems for various uses in daily lives.




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SEM-V

PROGRAMME SPECIFIC OUTCOMES:-

PSO1 –Game development , quality assurance techniques and networking security is learnt in this semester.

PSO2: The concepts of artificially intelligent is also introduced in this semester.



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ARTIFICIAL INTELLIGENCE-V

COURSE OUTCOME:

After completion of this course the outcome will be as follows

CO1: After completion of this course, learner should get a clear understanding of AI and different search algorithms used for solving problems.

CO2: The learner should also get acquainted with different learning algorithms and models used in machine learning



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SOFTWARE TESTING & QUALITY ASSURANCE-V



COURSE OUTCOME:

After completion of this course the outcome will be as follows

CO1: Understand various software testing methods and strategies. Understand a variety of software metrics, and identify defects and managing those defects for improvement in quality for given software.

CO2: Design SQA activities, SQA strategy, formal technical review report for software quality control and assurance.



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INFORMATION & NETWORK SECURITY-V



COURSE OUTCOME:

After completion of this course the outcome will be as follows

CO1: Understand the principles and practices of cryptographic techniques.

CO2: Understand a variety of generic security threats and vulnerabilities, and identify & analyze particular security problems for a given application.

CO3: Understand various protocols for network security to protect against the threats in a network



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MARWARI VIDYALAYA SANCHALIT

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OF ARTS & COMMERCE**

ARCHITECTING OF LOT-V

ISO 9001:2015 Certified
Recipient of Asia Pacific Excellence Award



COURSE OUTCOME:

After completion of this course the outcome will be as follows

CO1: Learners are able to design & develop IoT Devices.

CO2: They should also be aware of the evolving world of M2M Communications and IoT analytics.

CO3: Learner will be able to learn the concept of IoT devices and securities and protocols.



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GAME PROGRAMMING-V

COURSE OUTCOME:

After completion of this course the outcome will be as follows

CO1: Learner should study Graphics and gaming concepts with present working style of developers where everything remains on internet and they need to review it, understand it, be a part of community and learn.

Co2: Learner will be able to understand the concept used for designing the algorithms used for gaming.

CO3: Learner will be able to understand the concept of various stages of game design.




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Bachelor of Science(Computer Science)

PROGRAMME OUTCOMES:-

PO1: To develop an understanding and knowledge of the basic theory of Computer Science with good foundation on theory, systems and applications.

PO2: To provide training in emergent computing technologies which lead to innovative solutions for industry and academia.

PO3: To develop the professional skill set required for a career in an information technology oriented business or industry.

SEM-VI

PROGRAMME SPECIFIC OUTCOMES:-

PSO1 –Cloud computing techniques data mining , image processing are learnt in this semester.

PSO2: various hacking techniques are introduces to students in this semester.




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CLOUD COMPUTING-VI

COURSE OUTCOME:

After completion of this course the outcome will be as follows

CO1: After successfully completion of this course, learner should be able to articulate the main concepts, key technologies, strengths, and limitations of cloud computing and the possible applications for state-of-the-art cloud computing using open source technology.

CO2: Learner should be able to identify the architecture and infrastructure of cloud computing, including SaaS, PaaS, IaaS, public cloud, private cloud, hybrid cloud, etc.

CO3: They should explain the core issues of cloud computing such as security, privacy, and interoperability.



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CYBER FORENSICS-VI

COURSE OUTCOME:

After completion of this course the outcome will be as follows

CO1: The student will be able to plan and prepare for all stages of an investigation -

CO2: Learner will be able to understand the detection, initial response and management interaction, investigate various media to collect evidence, report them in a way that would be acceptable in the court of law.



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DIGITAL IMAGE PROCESSING-VI

COURSE OUTCOME:

After completion of this course the outcome will be as follows

- CO1:** Learner should review the fundamental concepts of a digital image processing system.
- CO2:** Analyze the images in the frequency domain using various transforms.
- CO3:** Evaluate the techniques for image enhancement and image segmentation.
- CO4:** Apply various compression techniques.
- CO5:** They will be familiar with basic image processing techniques for solving real problems




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DATA SCIENCE-VI

COURSE OUTCOME:

After completion of this course the outcome will be as follows

CO1: After completion of this course, the students should be able to understand & comprehend the problem; and should be able to define suitable statistical method to be adopted

CO2: Learner will be able to analyse the large amount of data .




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ETHICAL HACKING-VI

COURSE OUTCOME:

After completion of this course the outcome will be as follows

CO1: Learner will know to identify security vulnerabilities and weaknesses in the target applications.

CO2: They will also know to test and exploit systems using various tools and understand the impact of hacking in real time machines.



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