



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

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Recipient of Asia Pacific Excellence Award



BACHELOR OF SCIENCE (INFORMATIONAL TECHNOLOGY)

PROGRAMME OUTCOMES:-

- PO1:** Design and develop software solutions for contemporary business environments by employing appropriate problem solving strategies.
- PO2:** Configure and administer database servers to support contemporary business environments.
- PO3:** Comprehend and resolve common desktop and network issues.

SEM-I

PROGRAMME SPECIFIC OUTCOMES:-

- PSO1** - Students are introduced with the programming languages such as C, C++. They also learn web designing , operating systems, digital electronics.
- PSO2** - Logic development is done by using mathematical subjects such as Discrete Maths.




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IMPERATIVE PROGRAMMING I

COURSE OUTCOME:

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

CO1: To improve logical thinking .

CO2: To make students aware of programming paradigm that uses statements that change a programs state.



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DIGITAL ELECTRONICS

COURSE OUTCOME:-

After completion of the course , the outcome will be as follows :-

CO1: To aware the most common representation of Boolean algebra.

CO2: To know the basis of all digital circuits for computers, mobile phones, and numerous other consumer products




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OPERATING SYSTEMS I

COURSE OUTCOME:

After completion of the course , the outcome will be as follows :-

CO1: To be aware with the collection of software that manages computer hardware resources and provides common services for computer programs.




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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.




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COMMUNICATION SKILLS

COURSE OUTCOME:

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

CO1: To improve technical communication.

CO2: Learn how to apply soft skills in a wide range of routine social and professional settings




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IMPERATIVE PROGRAMMING PRACTICAL I

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DISCRETE MATHEMATICS PRACTICAL I

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COMMUNICATION SKILLS PRACTICAL I

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BACHELOR OF SCIENCE (INFORMATIONAL TECHNOLOGY)

PROGRAMME OUTCOMES:-

PO1: Design and develop software solutions for contemporary business environments by employing appropriate problem solving strategies.

PO2: Configure and administer database servers to support contemporary business environments.

PO3: Comprehend and resolve common desktop and network issues.

SEM-II

PROGRAMME SPECIFIC OUTCOMES:-

PSO1 - Students are introduced with the programming languages C, C++, DBMS and web technologies.

PSO2 – micro processor and micro controller concepts are introduced in the semester.



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OBJECTIVE ORIENTED PROGRAMMING II

COURSE OUTCOME:

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

CO1: To aware students how to implement real-world entities like inheritance, hiding, polymorphism, etc in programming.

CO2: The main aim of OOP is to bind together the data and the functions that operate on them so that no other part of the code can access this data except that function.




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MICROPROCESSOR ARCHITECTURE II

COURSE OUTCOME:-

After completion of the course , the outcome will be as follows :-

CO1: To aware students about processing of program instructions and data occurs.

CO2: To know brief about the , external memory, and input and output devices.



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WEB PROGRAMMING II

COURSE OUTCOME:

After completion of the course , the outcome will be as follows :-

CO1: To aware students about the writing, mark up and coding involved in Web development

CO2: To know a briefly about the most common languages used for Web programming are XML, HTML, JavaScript, Perl 5 and PH.




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NUMERICAL AND STATISTICAL METHODS II

COURSE OUTCOME:

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

CO1: To Learn Statistical Methods Used For Digital Signal Processing

CO2: To Learn Statistical Techniques Used For Handling Large Amount Of Data Handling



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GREEN COMPUTING II

COURSE OUTCOME:

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

CO1: To Aware About Various Techniques Used To Maintain Ecosystems.

CO2: To Learn Green Technology



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OBJECTIVE ORIENTED PROGRAMMING PRACTICAL II

COURSE OUTCOME:

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

CO1: To aware students how to implement real-world entities like inheritance, hiding, polymorphism, etc in programming.

CO2: The main aim of OOP is to bind together the data and the functions that operate on them so that no other part of the code can access this data except that function.



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MICROPROCESSOR ARCHITECTURE PRACTICAL II

COURSE OUTCOME:-

After completion of the course , the outcome will be as follows :-

CO1: To aware the most common representation of Boolean algebra.

CO2: To know the basis of all digital circuits for computers, mobile phones, and numerous other consumer products




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WEB PROGRAMMING PRACTICAL II

COURSE OUTCOME:

After completion of the course , the outcome will be as follows :-

CO1: To aware students about the writing, mark up and coding involved in Web development

CO2: To know a briefly about the most common languages used for Web programming are XML, HTML, JavaScript, Perl 5 and PH.




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NUMERICAL AND STATISTICAL METHODS PRACTICAL II

COURSE OUTCOME:

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

CO1: To Learn Statistical Methods Used For Digital Signal Processing

CO2: To Learn Statistical Techniques Used For Handling Large Amount Of Data Handling



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GREEN COMPUTING PRACTICAL II

COURSE OUTCOME:

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

CO1: To Aware About Various Techniques Used To Maintain Ecosystems.

CO2: To Learn Green Technology




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PROGRAMME OUTCOMES:-

PO1: Design and develop software solutions for contemporary business environments by employing appropriate problem solving strategies.

PO2: Configure and administer database servers to support contemporary business environments.

PO3: Comprehend and resolve common desktop and network issues.

SEM-III

PROGRAMME SPECIFIC OUTCOMES:-

PSO1 - Students are introduced with the concepts of networking operating systems and organisation of data.

PSO2 – students learns to develop mobile programming applications and also learns applied maths.




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PYTHON PROGRAMMING III

COURSE OUTCOME:

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

- CO1:** To understand useful scripting language for developers.
CO2: To learn how to design and program Python applications.




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DATA STRUCTURES III

COURSE OUTCOME:-

After completion of the course , the outcome will be as follows :-

CO1: To understand the abstract data types stack, queue and list. & to understand the performance of the implementations of basic linear data structures.

CO2: To Learn Organisation Of Data Using Various Algorithms



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COMPUTER NETWORKS III

COURSE OUTCOME:

After completion of the course , the outcome will be as follows :-

- CO1:** Resource sharing is the main objective of the computer network.
- CO2:** The goal is to provide all the program, data and hardware is available to everyone on the network without regard to the physical location of the resource.
- CO3:** To provide the high Reliability


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DATABASE MANAGEMENT SYSTEMS III

COURSE OUTCOME:

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

CO1: To Learn Various Techniques To Handle Database

CO2: To Learn The Concepts Of Various Transactions Techniques While Handling Data




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APPLIED MATHEMATICS III

COURSE OUTCOME:

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

CO1: To Learn Various Methods Of Applied Maths

CO2: To Learn The Maths Required For Digital Signal Processing




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PYTHON PROGRAMMING PRACTICAL III

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MOBILE PROGRAMMING

COURSE OUTCOME:

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

CO1: To Learn Programming Techniques Required For Mobile Device

CO2: To Learn Android Language Used For Mobile Programming



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SEM-IV

PROGRAMME SPECIFIC OUTCOMES:-

PSO1 - Students learn software testing techniques.

PSO2 – students are introduced to programming language computer graphics and statistical methods.




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CORE JAVA IV

COURSE OUTCOME:

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

CO1: To Understand fundamentals of object-oriented programming in Java, including defining classes, invoking methods, using class libraries, etc.

CO2: Describe Java platform and language, followed by instructions for setting up a development environment consisting of a Java Development Kit (JDK).

CO3: Explain the fundamentals of object-oriented programming in Java, including defining classes, invoking methods, using class libraries.

CO4: Illustrate and implement about the OOP concept of inheritance and packages.

CO5: Test data from different sources and destinations using various classes, interfaces, and methods that is available to read data from the file.


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INTRODUCTION TO EMBEDDED SYSTEMS IV

COURSE OUTCOME:-

After completion of the course , the outcome will be as follows :-

CO1: Describe the architecture and organization of Microcontrollers

CO2: Explain the Interfacing of memory & various I/O devices with 8051 microcontrollers.

CO3: Write assembly language programs using programming tools.

CO4: Categorize different types of microcontrollers

CO5: Summarize importance of Microcontroller




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COMPUTER ORIENTED STATISTICAL TECHNIQUES IV

COURSE OUTCOME:

After completion of the course , the outcome will be as follows :-

CO1: To understand important theorems, different formulae and practical applications of these statistical and optimization methods in the field of Computer Sciences and Applications.


CO2: Define measures of central tendencies and measures of dispersion.

CO3: Explain sampling theory to establish relationship existing between population and samples.

CO4: Use of estimate statistical parameters and hypothesis testing.

CO5: Analysing small sampling distributions.




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SOFTWARE ENGINEERING IV

COURSE OUTCOME:

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

- C01:** Basic knowledge and understanding of the analysis and design of complex systems.
- C02:** To develop, maintain and evaluate large-scale software systems
- C03:** Describe various software engineering approaches.
- C04:** Explain the use of different software engineering approaches
- C05:** Apply software models, techniques and technologies to bring out Innovative solutions for software development.




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COMPUTER GRAPHICS AND ANIMATION IV

COURSE OUTCOME:

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

- CO1:** Describe various concepts of computer graphics and animation and study its application in different domains.
- CO2:** Explain the concepts related to scan conversion, 2D and 3D coordinate system, light and colour representation technology, image compression mechanism.
- CO3:** Solve 2D and 3D transformation and scan conversion problem, illustrate techniques of animation.
- CO4:** Compare various 2D and 3D computer graphics technologies.
- CO5:** Choose suitable graphic function for your computer graphic design.




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CORE JAVA PRACTICAL IV

COURSE OUTCOME:

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

CO1: To Understand fundamentals of object-oriented programming in Java, including defining classes, invoking methods, using class libraries, etc.

CO2: Describe Java platform and language, followed by instructions for setting up a development environment consisting of a Java Development Kit (JDK).

CO3: Explain the fundamentals of object-oriented programming in Java, including defining classes, invoking methods, using class libraries.

CO4: Illustrate and implement about the OOP concept of inheritance and packages.

CO5: Test data from different sources and destinations using various classes, interfaces, and methods that is available to read data from the file.




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INTRODUCTION TO EMBEDDED SYSTEMS PRACTICAL IV

COURSE OUTCOME:-

After completion of the course , the outcome will be as follows :-

CO1: Describe the architecture and organization of Microcontrollers


CO2: Explain the Interfacing of memory & various I/O devices with 8051 microcontrollers.

CO3: Write assembly language programs using programming tools.

CO4: Categorize different types of microcontrollers

CO5: Summarize importance of Microcontroller




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COMPUTER ORIENTED STATISTICAL TECHNIQUES
PRACTICAL IV

COURSE OUTCOME:

After completion of the course , the outcome will be as follows :-

CO1: To understand important theorems, different formulae and practical applications of these statistical and optimization methods in the field of Computer Sciences and Applications.

CO2: Define measures of central tendencies and measures of dispersion.

CO3: Explain sampling theory to establish relationship existing between population and samples.

CO4: Use of estimate statistical parameters and hypothesis testing.

CO5: Analysing small sampling distributions.




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SOFTWARE ENGINEERING PRACTICAL IV

COURSE OUTCOME:

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

- C01:** Basic knowledge and understanding of the analysis and design of complex systems.
- C02:** To develop, maintain and evaluate large-scale software systems
- C03:** Describe various software engineering approaches.
- C04:** Explain the use of different software engineering approaches
- C05:** Apply software models, techniques and technologies to bring out Innovative solutions for software development.




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COMPUTER GRAPHICS AND ANIMATION PRACTICAL IV

COURSE OUTCOME:

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

- CO1:** Describe various concepts of computer graphics and animation and study its application in different domains.
- CO2:** Explain the concepts related to scan conversion, 2D and 3D coordinate system, light and colour representation technology, image compression mechanism.
- CO3:** Solve 2D and 3D transformation and scan conversion problem, illustrate techniques of animation.
- CO4:** Compare various 2D and 3D computer graphics technologies.
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BACHELOR OF SCIENCE (INFORMATIONAL TECHNOLOGY)

PROGRAMME OUTCOMES:-

P01: Design and develop software solutions for contemporary business environments by employing appropriate problem solving strategies.

P02: Configure and administer database servers to support contemporary business environments.

P03: Comprehend and resolve common desktop and network issues.

SEM-V

PROGRAMME SPECIFIC OUTCOMES:-

PSO1 – software project management dot net technologies, java in business and hardware subjects are learned by students.

PSO2 – introduction to artificial intelligent is also done during this periods.




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SOFTWARE PROJECT MANAGEMENT V

COURSE OUTCOME:

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

CO1: To introduce software project management and to describe its distinctive characteristics


CO2: To do activity planning

CO3: To understand the concept of monitoring and control of project

CO4: To introduce selection of an appropriate software project

CO5: Demonstrate the system design including screen layouts, process diagrams, Pseudocode and documentation




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INTERNET OF THINGS V

COURSE OUTCOME:-

After completion of the course , the outcome will be as follows :-

CO1: Include connected security systems, thermostats, cars, electronic appliances, lights in household and commercial environments, alarm clocks, speaker systems, vending machines and more.

CO2: To be able to implement the ADTs stack ,queue , and using Python lists.

CO3: To learn to prototype the physical desing

CO4: To learn the techniques for writing the embedded code

CO5: To learn how to move to manufacture




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ADVANCED WEB PROGRAMMING V

COURSE OUTCOME:

After completion of the course , the outcome will be as follows :-

CO1: Advanced Web Development Suite is a comprehensive training program that equips candidates with the all the necessary tools and techniques of web development with extensive practice in coding of functional web applications.

CO2: To understand to develop web form fundamentals

CO3: To learn to error handling, logging, tracing

CO4: To understand ADO.NET fundamentals

CO5: To learn XML concept




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ARTIFICIAL INTELLIGENCE V

COURSE OUTCOME:

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

- CO1:** To learn the fundamnetals of AI
- CO2:** To learn how to solve problems by searching
- CO3:** To learn to do Adversial search
- CO4:** To learn first order logic
- CO5:** To learn to represent knowledge



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ENTERPRISE JAVA V

COURSE OUTCOME:

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

CO1: To understand JDBC, JAVA EE

CO2: To understand the concept of cookies in servlet

CO3: To understand JSP

CO4: To understand java beans

CO5: To understand java persistence, Object relational mapping and JPA



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SOFTWARE PROJECT MANAGEMENT PRACTICAL V

COURSE OUTCOME:

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ADVANCED WEB PROGRAMMING PRACTICAL V

COURSE OUTCOME:

After completion of the course , the outcome will be as follows :-

CO1: Advanced Web Development Suite is a comprehensive training program that equips candidates with the all the necessary tools and techniques of web development with extensive practice in coding of functional web applications.

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CO3: To learn to error handling, logging, tracing

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ARTIFICIAL INTELLIGENCE PRACTICAL V

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ENTERPRISE JAVA PRACTICAL V

COURSE OUTCOME:

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

CO1: To understand JDBC, JAVA EE

CO2: To understand the concept of cookies in servlet

CO3: To understand JSP

CO4: To understand java beans

CO5: To understand java persistence, Object relational mapping and JPA



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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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