



KALINAGAR MAHAVIDYALAYA
DIPARTMENT OF COMPUTER SCIENCE

Course Outcome

Course: computer Science General (CBCS)

Semester I

COURSE CODE:- CMSGCOR01T

COURSE NAME:- Problem Solving with Computer

COURSE OUTCOME

- To familiarize students about the basic fundamental design and building blocks of computer system.
- To acquire programming skills in core Python.
- To acquire Object Oriented Skills in Python
- To develop the skill of designing Graphical user Interfaces in Python
- To develop the ability to write database applications in Python

Semester I

COURSE CODE:- CMSGCOR01P

COURSE NAME:- Problem Solving with Computer

COURSE OUTCOME

- Describe the basics of the Python programming language.
- Install Python and write your first program.
- Use variables to store, retrieve and calculate information.
- Utilize core programming tools such as functions and loops.

Semester II

COURSE CODE:- CMSGCOR02T

COURSE NAME:- Database Management Systems(DBMS)

COURSE OUTCOME

- Understand fundamental concepts of database. Understand user requirements and frame it in data model.
- Ability in creations, manipulation and querying of data in databases.
- Ability to solve real world problems using appropriate set, function, and relational models.
- Ability to design E-R Model for given requirements and convert the same into

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Semester II

COURSE CODE:- CMSGCOR02T

COURSE NAME:- Database Management Systems(DBMS)

COURSE OUTCOME

- Able to devise pseudo code and flowchart for computational problems.
- Able to create database tables in Postgres SQL
- Able to write and execute simple and nested queries.

Semester III

COURSE CODE:- CMSGCOR03T

COURSE NAME:- Operating Systems(OS)

COURSE OUTCOME

- Gain in depth knowledge about the structures of the operating system, different types of operating system and functions performed by modern operating system
- Identify and apply knowledge of various software and hardware synchronization tools for solving critical section problem in concurrent processes.
- Learn about Processes, Threads, and gain knowledge of various scheduling algorithm designs
- Understand and apply process management and memory management concepts to solve various hardware and software problems.
- Identify various file management and security mechanisms in order to design efficient software system by using various access control techniques.

Semester III

COURSE CODE:- CMSGCOR03P

COURSE NAME:- LINUX

COURSE OUTCOME

- To learn the command substitution to capture program output.
- To learn the conditional statements to control the execution of shell scripts

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Semester III

COURSE CODE:- SEC1(CMSSEC01M)

COURSE NAME:- Programming in Python

COURSE OUTCOME

- To familiarize the students with object oriented programming and procedure oriented programming.
- To familiarize the students with nowadays very much popularity of the software specially in It base companies for web application, database handling etc.

Semester IV

COURSE CODE:- CMSGCOR04T

COURSE NAME:- Computer System Architecture

COURSE OUTCOME

- Design Combinational Circuits using basic building blocks. Simplify these circuits using Boolean algebra and Karnaugh maps. Differentiate between combinational circuits and sequential circuits.
- Represent data in binary form, convert numeric data between different number systems and perform arithmetic operations in binary.
- Determine various stages of instruction cycle and describe interrupts and their handling.
- Explain how CPU communicates with memory and I/O devices.
- Simulate the design of a basic computer using a software tool.

Semester IV

COURSE CODE:- CMSGCOR04P

COURSE NAME:- Computer System Architecture

COURSE OUTCOME

- Understand the theory and architecture of central processing unit.
- Analyze some of the design issues in terms of speed, technology, cost, performance.
- Design a simple CPU with applying the theory concepts.
- Use appropriate tools to design verify and test the CPU architecture.
- Learn the concepts of parallel processing, pipelining and intercrosses or communication.

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Semester IV

COURSE CODE:- SEC2(CMSSEC02M)

COURSE NAME:-R Programming

COURSE OUTCOME

- Explain critical R programming concepts.
- Demonstrate how to install and configure R Studio.
- Apply OOP concepts in R programming.
- Explain the use of data structure and loop functions.
- Analyse data and generate reports based on the data.
- Apply various concepts to write programs in R.

Semester V

COURSE CODE:-DSE1(CMSGDSE01T)

COURSE NAME:- Programming in JAVA

COURSE OUTCOME

- Understand to implement object oriented programming concepts.
- Understand how to design graphical user interface in Java programs.
- Understand how to design and develop applets.
- Able to design User Interface using Swing and AWT.
- Understand concept of packages and study how to implement them.

Semester V

COURSE CODE:- DSE1(CMSGDSE02T)

COURSE NAME:- Discrete Structures

COURSE OUTCOME

- To develop understanding of Logic Sets and Functions.
- To use mathematical reasoning techniques including induction and recursion
- To understand and apply counting techniques to the representation and characterization of relational concepts.
- To develop an understanding of how graph and tree concepts are used to solve problems arising in the computer science.
- To communicate the solutions of technical problems to other professionals.
- To develop improved collaborative skills

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Semester VI

COURSE CODE:- DSE2(CMSGDSE03T)

COURSE NAME:- Software Engineering.

COURSE OUTCOME

- An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- An ability to communicate effectively with a range of audiences.
- An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

Semester VI

COURSE CODE:- DSE2(CMSGDSE04T)

COURSE NAME:- Computer Networks.

COURSE OUTCOME

- Understand basic computer network technology.
- Understand and explain Data Communications System and its components.
- Able to identify the different types of network topologies and protocols.
- Enumerate the layers of the OSI model and TCP/IP. Explain the function(s) of each layer.
- Identify the different types of network devices and their functions within a network.
- Understand the basic protocols of computer networks, and how they can be used to assist in network design and implementation.

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