



Curriculum
Subject - Computer Science (Code – 083)
Class - XII
Session 2025-26

Month	April	May	June	July
Contents	Review Python I/ Review Python II/ Working with Functions	Working with Functions/File Handling	File Handling / Exception Handling	Data Structures
Learning Outcomes	Students will be able to: <ul style="list-style-type: none">• Revise of Python topics covered in Class XI.• Describe functions and types of function.• Develop user defined functions.	Students will be able to: <ul style="list-style-type: none">• Define variable scope, arguments and parameters.• Describe python libraries and how to create user defined libraries.• Explore file handling concepts.	Students will be able to: <ul style="list-style-type: none">• Explain file and exception handling in python.• Generate files and handle the data.• Differentiate between types of files.• Implement file operations.	Students will be able to: <ul style="list-style-type: none">• Classify different data structures used in python.• Implement stacks in python.
Skills	Knowledge/ Remembering / Application	Knowledge/ Remembering / Application	Comprehend/ Application	Comprehend/Application/ Analysis
Software	Power Point	Python	Python	Python
Competency skills based activity / Experiential learning	Create programs in python.	Create programs in python.	Create programs in python.	Create programs in python.

Assessment: Class Response, Homework, Class Test and Practical Work.



Month	August/September	October	November/ December
Content	Database Concepts	Computer Networks I / Project	Computer Networks II / Project
Learning Outcomes	Students will be able to : <ul style="list-style-type: none">● Describe database concepts.● Install MYSQL.● Explain DDL, DML commands.● Implement SQL commands.● Generate a database and use commands to retrieve data.● Implement python connectivity with databases.	Students will be able to : <ul style="list-style-type: none">● Explain the evolution of networking.● Define data communication terminologies, IP address and switching techniques.● Explain transmission media, network topologies and protocol.● Implement SQL and python concepts to create a project.	Students will be able to : <ul style="list-style-type: none">● Explain working of network devices.● Classify the internetworking terms and concepts.● Implement SQL and python concepts to create a project.
Skills	Comprehend/Application	Comprehend/Knowledge	Comprehend/Application/ Creation
Software	MYSQL, Power Point , Python	Power Point, MYSQL, Python	Power Point, MYSQL, Python
Competency skills based activity / Experiential learning	Create a database and apply SQL commands. Create a database and connect using python.	Create a major project based on MYSQL and python connectivity.	Create a major project based on MYSQL and python connectivity.

Assessment: Class Response, Homework, Class Test and Practical Work.