



Curriculum
Subject – Computer Science (Code -083)
Session 2023-2024
Class - XII

	March	April/May	June/July
Contents	Review Python I Database Concepts	Review Python II Database Concepts	Functions Database Concepts
Objective	Students will be able to: <ul style="list-style-type: none">● Revision of Python topics covered in Class XI.● Understand database concepts.● Understand relational data model: relation, attribute, tuple, domain, degree etc.	Students will be able to: <ul style="list-style-type: none">● Revision of Python topics covered in Class XI.● Understand connecting SQL with Python.● Understand Structured Query Language: DDL, DML, DCL.● Implement SQL commands.	Students will be able to: <ul style="list-style-type: none">● Understand functions: types of function .● Creating user defined functions.● Implement SQL commands.
Skills	Understanding/Knowledge	Understanding/Knowledge/Application/Analysis	Understanding/Application/Analysis
Competency Skills Based Activity / Experiential Learning	Create programs in Python. Perform database commands.	Create programs in Python. Perform database commands.	Create programs in Python. Perform database commands.

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



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	August/September	October	November
Content	Data Structure :Stack	Computer Networks I Database Concepts	Computer Networks II Database Concepts
Objective	Students will be able to : <ul style="list-style-type: none">• Understand data Structure.• Implement stack, operations on stack (push & pop)• Implementation of stack using list.	Students will be able to : <ul style="list-style-type: none">• Implement SQL commands. Understand the evolution of networking.• Learn about data communication terminologies, IP address and switching techniques.• Understand transmission media: Wired communication media and Wireless media.• Understand working of network devices.	Students will be able to : <ul style="list-style-type: none">• Implement SQL commands.• Learn about network topologies and network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree)• Learn about network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP.• Understand web services.
Skills	Understanding/Application	Understanding/Application	Understanding/Application
Competency Skills Based Activity / Experiential Learning	Create python programs using stacks.	Prepare a presentation on transmission media and network devices.	Prepare a chart depicting various network topologies.

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