

**INFORMATICS PRACTICES (065)**

**CLASS XI**

**Academic planner-2026-27**

Date	working days	Content	Learning Outcomes	Mode of assessment
APRIL		Basic Concepts of curriculum	Benefits of learning python language	Group Task
MAY 1-15	12	Unit I: Introduction of computer system	Identify the components of computer system. Identify the Emerging trends in the fields of Information Technology	Demonstration method,Group Task,Questionnaire
JULY-1-31	14	Unit 4: Introduction to the Emerging Trends		
AUG 1-15	11	Unit II: Introduction of python Features of Python,comments,variable declaration,data types	Create Python programs using different data types.	Individual Task Method
16-31	12	Type of errors,small python programs Control Statements: if-else, for loop		
SEP 1-15	11	practicals of Half Yearly Examination		
16-30	12	HALY YEARLY THEORY EXAMINATION		
OCT 1-15	8	Lists: list operations - creating, initializing, traversing manipulating list	Create Python programs using different data types, lists and dictionaries.	group task method and in upcoming month MYSQL new software will start.
16-31	10	Dictionary: concept of key-value pair, creating		
NOV 1-15	11	Unit 3: Database concepts and the Structured Query Language Database Concepts: Introduction to database concepts	Understand database concepts and Relational Database Management Systems	using Demonstrative and individual method
16-30	12	Relational data model Advantages of using Structured Query Language		

DEC 1-15 16-31	12 13	Unit 3: Database concepts and the Structured Query Language Data Definition: CREATE TABLE Data Query: SELECT, FROM, WHERE. Data Manipulation: INSERT	Retrieve and manipulate data in RDBMS using Structured Query Language	Individual Method
JAN 1-15 16-31	13 11	MY SQL and python programs will be concluded	Retrieve and manipulate data in RDBMS using Structured Query Language	Group Method
Feburary		Completion of all syllabus and practical file. They will be asked to su		

assignment/HW	Teaching Paedgogy/SDG	Interdisciplinary aspect/SDG	21st Century Skills
	Use of e-content : e-book, powerpoint	Informatics Practices	Problem solving
Assignment of Basic concepts of computer system  Assignment of artificial Intelligence, cloud computing, IoT,	Use of e-content : e-book, powerpoint presentation, images and videos	Computer Science  Cyber Safety	Problem Solving
Various Practical assignment of basic Python Programs and Conditional statement programs	Demo of python IDLE will be given Students will start making simple programs They will start making practical files also	Maths,C++,Java	Information Literacy and Digital Citizenship
Practical assignment of all python programs till covered	HALF YEARLY PRACTICAL EXAMINATION HALY YEARLY THEORY EXAMINATION		
Practical assignment of string ,Dictionary and List programs	practicals of Lists and dictionary will be done python will be finished in this month using individual and	Maths	Design Thinking
Assignment of creating of MYSQL tables and simple queries based on it	Demo of MYSQL will be given students will start making tables and Databases practice of DDL and DML commands	Data Science	Pair Programming

<b>Assignment of using DDL and DML commands and simple queries based on it</b>	<b>practice of all DDL and DML commands will be done in the Lab</b>	Data Science MS Access	Self directed Learning
<b>Assignment based on MYSQL covered till.</b>	<b>Students will complete the all incomplete practicals of MYSQL and Python IDLE</b>		Self directed Learning
<b>Submit the project and practical file</b>			