

**Class – XI**

**Sub: INFORMATICS PRACTICES**

**Weekly Syllabus (Tentative)**

**Academic Session 2024-25**

Month	Week	Dates		Days	No of Periods	Chapter	Contents	Syllabus
Mar 24	Block Teaching							
Apr-24	I	01-06	<b>06-Working Saturday (Staff)</b>	05				
	II	08-12	<b>11 – Id-ul-Fitr</b>	04				
	III	15-19	<b>14 - Ambedakar Jayanti 17 – Ram Navami 21 - Mahavir Jayanti</b>	04		Unit 1 :Introduction to Computer System	Introduction to computer and computing: evolution of computing devices, components of a computer system and their interconnections, Input/output devices. Computer Memory	
	IV	22-27	<b>27-Working Saturday (Student)</b>	06		Unit 1 :Introduction to Computer System	Software: purpose and types – system and application software, generic and specific purpose software	
	V	29-30		02		Unit 1 :Introduction to Computer System  Unit 3: Database concepts and the Structured Query Language	Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns. Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model: Concept of domain, tuple, relation, candidate key, primary key, alternate key	

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May-24	I	01-03	01-03 : ES-1 (XII)/ CT-1 (X)	03		Unit 3: Database concepts and the Structured Query Language	Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language,	<b>ES-1 (XII)/ CT-1 (X)</b> <b>Date: 01-07 May</b> Unit 1: Data Handling using Pandas and Data Visualization  <b>Data Structure – Series (18 marks)</b>  <b>Unit IV Societal Impact (12 marks)</b>
	II	06-10	06-07 : ES-1 (XII)/ CT-1 (X) 09,10 – The Quest	05		Unit 3: Database concepts and the Structured Query Language	Introduction to MySQL, creating a database using MySQL, Data Types Data Definition: CREATE TABLE	
	III	13-18	18- Working Saturday (Open House X & XII)	06			Revision MySql	
<b>***** SUMMER BREAK 20 MAY -30 JUN 2024 *****</b>								
Jul-24	I	01-06	01- School reopens for staff 06-Working Saturday (Student)	05		Unit 3: Database concepts and the Structured Query Language	Revision DDL – Create Table Data types Constraints	<b>PT-I</b> <b>Class VI-X Date: 05 Jul – 12Jul</b>  <b>ES-2 (XII): 05 Jul – 12Jul</b>
	II	08-12		05		Unit 3: Database concepts and the Structured Query Language	Data Query: SELECT, FROM, WHERE. like with wild card characters	<b>Unit 1: Data Handling using Pandas (25 marks)</b>  <b>Unit IV Societal Impact (10 marks)</b>
	III	15-19	17-Muharram	04		Unit 3: Database concepts and the Structured Query	SELECT, FROM, WHERE. clauses – IN, Order by, between	

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						Language		
	IV	22-27	<b>27 – Working Saturday (Students)</b>	06		Unit 3: Database concepts and the Structured Query Language	Data Manipulation: INSERT delete update	
	V	29-31		03		Data Definition:  Data Query:  Data Manipulation:	Creating A Database Using Mysql, Data Types  CREATE TABLE, DROP TABLE, ALTER TABLE  SELECT, FROM  Pattern Searching Using Wild Card Characters	
<b>Aug-24</b>	I	01-03	<b>03 – Working Saturday (Open House (VI-X), XII)</b>	03		Data Manipulation:	Select, From, Where  Insert, Delete ,Update Clause- Order By, Like , In Relational Operators	
	II	05-09		05		Unit 2: Introduction to Python Basics of Python programming,	Python interpreter - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables	
	III	12-16	<b>15 – Independence Day</b>	04		Unit 2: Introduction to Python Basics of Python programming,	types of operators, precedence of operators, data types,	
	IV	19-23	<b>19-Raksha Bandhan</b>	04		Unit 2: Introduction	mutable and immutable data types, statements, expressions,	<b>ES-1 (XI): Unit 1 Computer</b>

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						to Python Basics of Python programming,	evaluation and comments, input and output statements, data type conversion, debugging	<b>Fundamentals</b> Unit 3: Database concepts and the Structured Query Language
	V	26-31	<b>26-Janmashtami</b> <b>31-Working Saturday (Students)</b> <b>31-Annual Prize Distribution</b>	05			Revision	
<b>Sep-24</b>	I	02-06		05				
	II	09-14	<b>14 – Working Saturday (Students)</b>	06			Mid Term/ HYE Exam	<b>Mid Term (PT-II)/ HYE</b>
	III	16-21	<b>16-Milad-un-Nabi</b> <b>21 – Working Saturday (Students)</b>	05		Unit 2: Introduction to Python Basics of Python programming,	Paper Discussion input and output statements, data type conversion, debugging. Control Statements: if-else,	<b>Date 02-14 Sep</b>
	IV	23-27		05		Unit 2: Introduction to Python Basics of Python programming,	Control Statements: if-else and its variants if ...elif...else	Unit 2: Introduction to Python Basics of Python programming, Unit 3: Database concepts and the Structured Query Language
	V	30		01		Unit 2: Introduction to Python Basics of Python programming,	for loop- Programs	
<b>Oct-24</b>	II	01-05	<b>02-Mahatma Gandhi's</b>	04		Unit 2: Introduction	for loop- Programs	

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			<b>Birthday 05-Annual Prize Distribution</b>			to Python Basics of Python programming,		
	III	07-12	<b>09-13– Autumn Break 12- Dussehra</b>	02		Unit 2: Introduction to Python Basics of Python programming,	Revision	
	IV	14-19	<b>17-Maharishi Valmiki's Birthday 19 – Working Saturday (Open House VI- XII)</b>	05		Lists	list operations - creating, initializing	
	V	21-25	<b>20– Karwa Chouth</b>	05		Lists	list operations - creating, initializing	
	VI	28-31	<b>30-03 Nov – Diwali Break</b>	02		Lists	traversing and manipulating lists list methods and built-in functions.	
<b>*** Autumn Break 09-13 Oct 2024 ***</b>								
<b>Nov-24</b>	I	04-09	<b>09 – Working Saturday (Students)</b>	06		Lists	revision of lists	
	II	11-15	<b>12 – Annual Day 15 – Guru Nank's Birthday</b>	04		Dictionary	concept of key-value pair, creating, initializing, ,	
	III	18-22		05		Dictionary	traversing	<b>PT-II (VI-VIII):</b> 19 Nov-10 Dec
	IV	25-30	<b>29,30 – Annual Athletic Meet</b>	06		Dictionary	updating and deleting elements,	<b>PT-III (IX):</b> 19 Nov-10 Dec <b>PT-III (X):</b> 14 Nov-25 Nov <b>MPB (XII):</b> 14 Nov-25 Nov
<b>Dec-24</b>	<b>I</b>	02-07	<b>07 – Sports Day</b>	06		Dictionary	methods of dictionaries	Unit 2: Introduction to Python Basics of Python
	<b>II</b>	09-13		05		Dictionary	dictionary methods	Branching

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								Statement(10 marks) Iterative computation and control flow: for, while(10 marks) List(10 marks)
	III	16-21	21-Working Saturday, Open House (X & XII)	06		Dictionary	built-in functions.	
	IV	23	24,25 – Christmas Holidays	01		Dictionary	Revision	
<b>*** Winter Break from 26 Dec to 04 Jan 2025 ***</b>								
Jan-25	I	06-10		05		Unit 4: Introduction to the Emerging Trends	Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors,	
	II	13-18	18-Working Saturday, Open House (VI-IX, XI)	06		Unit 4: Introduction to the Emerging Trends	Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS);	
	III	20-25	25-Citation Ceremony 25-Open House XII 26-Republic Day	06		Unit 4: Introduction to the Emerging Trends	Grid Computing, Block chain technology Revision of Unit : Introduction to the Emerging Trends	
	IV	27-31		05		Python	Revision of python, lists	
Feb-25	I	01	01 – Farewell XII 01- Open House X	01		python	Revision of dictionaries	<b>Annual Exam Class IX &amp; XI – 05 Feb-19 Feb 2025</b>  Unit 1 :Introduction to Computer System(5 marks)
	II	03-07		05				
	III	10-14		05				
	IV	17-22	22-Working Saturday (students)	06				

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								Unit 2: Introduction Python Programming (30 marks) Unit 3: Database concepts and the Structured Query Language (30 marks) Unit 4 Introduction to the Emerging Trends ( 5 marks)
	V	24-28	<b>26-Maha Shivratri</b>	04				
Mar-25	<b>Annual Exam Classes VI-VIII – 25 Feb-10 Mar 2025</b>							

**Note: The examination syllabus as mentioned above is to be considered Tentative. The final syllabus for each exam will be uploaded on the website along with the Date Sheet at the time of the examination.**