THE AIR FORCE SCHOOL : SUBROTO PARK : DELHI CANTT-110010

Class – XI

Sub: IP

Weekly Syllabus

Academic Session 2023-24

Month	Week	Dates		Days	No of Periods	Chapter	Contents	Syllabus
Apr-23	IV	17-21		05		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	
	V	24-29	**29-Working Saturday (Student)** **29 – Parent Orientation VI & IX**	06		Unit 1 :Introduction to Computer System	Software: purpose and types – system and application software, generic and specific purpose software	
May-23	I	01-05	**05 – Budha Purnima** **01-04 : ES-1 (XII)/ CT-1 (X)**	04		Unit 1 :Introduction to Computer System	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	==ES-1 (XII)/ CT-1 (X)== **Date: 01-08 May**
	II	08-12	**08 : ES-1 (XII)/ CT-1 (X)** **11,12 – The Quest**	05		Unit 3: Database concepts and the Structured Query	Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation	

Month	Week	Dates		Days	No of Periods	Chapter	Contents	Syllabus
						Language	Language,	
	III	15-20	**20- Working Saturday (Open House X & XII)**	06		Unit 3: Database concepts and the Structured Query Language	Introduction to MySQL, creating a database using MySQL, Data Types Data Definition: CREATE TABLE	
***** SUMMER BREAK 22 MAY -30 JUN 2023 ******								
Jul-23	I	01-	01- School reopens for staff	01		Unit 1 :Introduction to Computer System	Revision	
	II	03-07		05		Unit 3: Database concepts and the Structured Query Language	Revision DDL – Create Table Data types Constraints	
	III	10-14		05		Unit 3: Database concepts and the Structured Query Language	Data Query: SELECT, FROM, WHERE. like with wild card characters	
	IV	17-22	**22 – Working Saturday (Students)**	06		Unit 3: Database concepts and the Structured Query Language	SELECT, FROM, WHERE. clauses – IN, Order by, between	
	V	24-28	**29-Muharram**	05		Unit 3: Database concepts and the Structured Query Language	Data Manipulation: INSERT delete update	

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	VI	31		01		Unit 3: Database concepts and the Structured Query Language	Revision	
Aug-23	I	01-05	**05 – Working Saturday (Open House (VI-X), XII)**	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	
	II	07-11		05		Unit 2: Introduction to Python Basics of Python programming,	types of operators, precedence of operators, data types, mutable and immutable data types, statements, expressions, evaluation and comments,	
	III	14-18	**15 – Independence Day**	04		Unit 2: Introduction to Python Basics of Python programming,	input and output statements, data type conversion, debugging. Control Statements: if-else,	
	IV	21-26	**24,25-Class Test 26-Working Saturday (Students) 26-Annual Prize Distribution**	06		Unit 2: Introduction to Python Basics of Python programming,	Control Statements: if-else and its variants if …elif…else	<mark>**ES-1 (XI):** 21 Aug – 25 Aug</mark> **Unit 1** :Introduction to Computer System Unit 3: Database concepts and the Structured Query Language Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation

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								Language, Introduction to MySQL, creating a database using MySQL, Data Types Data Definition: CREATE TABLE, Alter table. DML – Select, Delete , Update ,Insert
	V	28-32	**30-Raksha Bandhan** **28,29 -Class Test**	03		Unit 2: Introduction to Python Basics of Python programming,	for loop- Programs	
Sep-23	I	01	**01 -Class Test**	01		Unit 2: Introduction to Python Basics of Python programming,	Revision	
	II	04-08	**07-Janmashtami**	04				<mark>**Mid Term (PT-II)/ HYE**</mark> **Date 11-23 Sep** **Unit 1 :Introduction to Computer System** **(10 marks)** **Unit 2: Introduction Python Programming (25 marks)** **Basics of python programming** **Data Types** **Operators**
	III	11-16	**16 – Working Saturday (Students)**	06		Mid Term/ HYE Exam		
	IV	18-23	**23 – Working Saturday (Students)**	06				
	V	25-30	**28-Milad-un-Nabi**	04			Discussion of Mid Year Exam paper/Answer Key	

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								Conditional statements:if..else **ifelif…else** **for loop** **Unit 4: Data Management (35 marks)**
Oct-23	II	02-07	**02-Mahatma Gandhi's Birthday** 07-Annual Prize Distribution	05		Lists	list operations - creating, initializing	
	III	09-14	**14- Working Saturday(Open House VI-XII)**	06		Lists	list operations - creating, initializing	
	IV	16-20		05		Lists	traversing and manipulating lists	
	V	23-27	**23– Autumn Break** **24- Dussehra** **28-Maharishi Valmiki's Birthday**	03		Lists	list methods and built-in functions.	
	VI	30-31		02		Lists	revision of lists	
*** Autumn Break 23 Oct 2023 ***								
Nov-23	I	01-04	**01– KarwaChouth** **04 – Working Saturday (Students)**	03		Dictionary	concept of key-value pair, creating, initializing, ,	
	II	06-10	**07 – Annual Day**	05		Dictionary	traversing	
	III	13-18	**11-15 – Diwali Break**	03		Dictionary	updating and deleting elements,	**PT-III (VI-VIII):**17 Nov-14 Dec **PT-III (IX & X)**: 20 Nov-30 Nov **ES-2 (XI):**21 Nov-14
	IV	20-24		05			methods of dictionaries	Dec

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						Dictionary		
	V	27-30	**27 – Guru Nank's Birthday**	03		Dictionary	dictionary methods	Iterative computation and control flow: for, while(10 marks) List and dictionary (10 marks each)
Dec-23	I	01-02	**01,02 – Annual Athletic Meet**	02		Dictionary	built-in functions.	
	II	04-09	**09 – Sports Day**	06		Unit 4: Introduction to the Emerging Trends	Artificial Intelligence, Machine Learning, Natural Language Processing,	
	III	11-16	**16-Working Saturday, Open House (IX,X & XII)**	06		Unit 4: Introduction to the Emerging Trends	Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors,	
	IV	18-22	**20-22 – TAFS MUN 24,25 – Christmas Holidays**	05		Unit 4: Introduction to the Emerging Trends	Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS);	
*** Winter Break from 26 Dec to 05 Jan 2024 ***								
Jan-24	I	08-12		05		Unit 4: Introduction to the Emerging Trends	Grid Computing, Block chain technology Revision of Unit : Introduction to the Emerging Trends	
	II	15-20	**20-Working Saturday, Open House (VI-VIII, XI)**	06		Python	Revision of python	
	III	22-27	**26-Republic Day 27-Farewell XII**	05		python	Revision of lists	
	IV	29-31		03		python	Revision of dictionary	
Feb-24	I	01-03	**01,02- Class Test** **03-Working Saturday, Citation Ceremony, Open House (X& XII)**	03				

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	II	05-09	**05-08- Class Test**	05				Unit 1 :Introduction to Computer System(10 marks)
	III	12-16		05		Python		
	IV	19-23		05				Unit 2: Introduction Python Programming (25 marks) Unit 3: Database concepts and the Structured Query Language (30 marks) Unit 4 Introduction to the Emerging Trends (5 marks)
	V	26-29		04				