

AIR FORCE SCHOOL HASIMARA

WEEKLY SPLITUP SYLLABUS (2025-26)

CLASS: XI-SC/ARTS/COMMERCE SUBJECT: INFORMATICS PRACTICES (065)

BOOKS: NCERT INFORMATICS PRACTICES FOR CLASS XI
INFORMATICS PRACTICES SUMITA ARORA FOR CLASS XI

Month	Week Days	Working Days	Chapters/ Topics	Activities/ Assignments
Jun 25	18-21	4	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: Units of memory	Homework and Classwork Practical Works Class Tests
	23-28	5	Introduction to Computer System: Computer Memory: types of memory – primary and secondary, data deletion, its recovery and related security concerns Software: purpose and types – system and application software	
	30	1	Introduction to Computer System: Software: generic and specific purpose software	
July 25	1-5	5	Introduction to Programming in Python: execution modes: - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operator, precedence of operators	Homework and Classwork Practical Works Class Tests
	7-11	5	Introduction to Programming in Python: Data types, mutable and immutable data types, statements, expression evaluation. comments, input and output statements, data type conversion, debugging	
	14-19	6	Introduction to Programming in Python: Programs	
	21-26	6	Flow of Control: Control Statements: if-else, if-elif-else, Programs	

July 25	28-31	4	Flow of Control: Control Statements: while loop, for loop, Programs	Homework and Classwork Practical Works Class Tests
Aug 25	1-2	2	Lists: list operations - creating, initializing, traversing and manipulating lists	Homework and Classwork Practical Works Class Tests
	4-8	5	Lists: list methods and built-in functions – len(),list(),append(),insert(), count(),index(),remove(), pop(), reverse(), sort(), min(),max(),sum()	
	11-16	4	Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements	
	18-23	6	Dictionary: dictionary methods and built-in functions – dict(), len(), keys(), values(), items(), update(), del, clear()	
	25-30	6	Database Concepts: Introduction to database concepts and its need, Database Management System.	
Sep 25	1-6	5	Database Concepts: Relational data model: Concept of domain, tuple, relation, candidate key, primary key, alternate key	Homework and Classwork Practical Works Class Tests
	8-9	2	Structured Query Language: Structured Query Language & its Advantages, Data Definition Language, Data Query Language and Data Manipulation Language	
	10-26	HALF YEARLY EXAMINATION		

Oct 25	7-10	4	Structured Query Language: Introduction to MySQL, creating a database using MySQL, Data Types Data Definition: CREATE DATABASE, CREATE TABLE, DROP, ALTER	Homework and Classwork Practical Works Class Tests
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Oct 25	13-18	6	Structured Query Language: Data Query: SELECT, FROM, WHERE with relational operators, BETWEEN, logical operators, IS NULL, IS NOT NULL	Homework and Classwork Practical Works Class Tests
	20-25	6	Structured Query Language: Data Manipulation: INSERT, DELETE, UPDATE	
	27-31	5	Emerging Trends: Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR)	
Nov 25	1	1	Emerging Trends: Robotics	Homework and Classwork Practical Works Class Tests
	3-7	4	Emerging Trends: Big data and its characteristics	
	10-15	6	Emerging Trends: Internet of Things (IoT), Sensors, Smart cities	
	17-22	6	Emerging Trends: Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology	
	24-29	6	Revision	
	30	1	Revision	
Dec 25	1-6	6	Revision	Homework and Classwork Practical Works Class Tests
	8-12	5	Revision	
	15-20	6	Revision	
	22	1	Revision	
Jan 26	12-17	6	Revision	Homework and Classwork Practical Works Class Tests
	19-24	6	Revision	
	26-31	6	Revision	

Feb 26	2-7	6	Revision	Homework and Classwork
	9-13	5	Revision	Practical Works Class Tests
	16-28	ANNUAL EXAMINATION		
Mar 26	2-30	ANNUAL EXAMINATION & RESULT DECLARATION		

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Subject Teacher & HOD