AIR FORCE SCHOOL HASIMARA

WEEKLY SPLITUP SYLLABUS (2025-26)

CLASS: XII-SC/ARTS/COM SUBJECT: INFORMATICS PRACTICES (065)

BOOKS: NCERT INFORMATICS PRACTICES FOR CLASS XII

INFORMATICS PRACTICES SUMITA ARORA FOR CLASS XII

Month	Week Days	Working Days	Chapters/ Topics	Activities/ Assignments
April 25	3-5 7-11 14-19 21-26	3 4 5 6	Data handling using Pandas: Introduction to Python libraries- Pandas, Matplotlib. Data structures in Pandas - Series and Data Frames. Series: Creation of Series from — ndarray, dictionary, scalar value Data handling using Pandas: Series: mathematical operations; Head and Tail functions; Selection, Indexing and Slicing. Data handling using Pandas: Data Frames: creation - from dictionary of Series, list of dictionaries, Text/CSV files; display; iteration Data handling using Pandas: Data Frames: Operations on rows and columns: add, select, delete, rename; Head and Tail functions; Indexing using Labels, Boolean Indexing; Data handling using Pandas: Importing/Exporting Data between CSV files and Data Frames.	Homework and Classwork Practical Works Class Tests
May 25	1-3	3	Data Visualization using Matplotlib: Plotting: Purpose of plotting; drawing and saving following types of plots using Matplotlib – line plot, bar graph, histogram	Homework and Classwork
	5-8	4	Data Visualization using Matplotlib: Customizing plots: adding label, title, and legend in plots.	Practical Works Class Tests

	40.04	A	Devision of database severets and	
	18-21	4	Revision of database concepts and SQL commands covered in class XI	Homework and
Jun 25	23-28	5	Revision of database concepts and	
	23-20	3	SQL commands covered in class XI	Classwork
	30	1	Revision of database concepts and	Practical Works
			SQL commands covered in class XI	Tradition Works
				Class Tests
			Structured Query Language:	
	1-5	5	Math functions: POWER (), ROUND	
Į.			(), MOD ().	
			Text functions: UCASE ()/ UPPER (),	
			LCASE ()/ LOWER (), MID ()/ SUBSTRING ()/SUBSTR (), LENGTH	
			(), LEFT (), RIGHT (), INSTR (), LTRIM	
			(), RTRIM (), TRIM ().	
	7-11	5	Structured Query Language:	
	' ' '		Date Functions: NOW (), DATE (),	l lama accepto a mel
			MONTH (), MONTHNAME (), YEAR	Homework and
July			(), DAY (), DAYNAME ().	Classwork
25			Aggregate Functions: MAX (), MIN (),	Practical Works
			AVG (), SUM (), COUNT (); using	Tradition Works
	4.4.40		COUNT (*).	Class Tests
	14-19	6	Structured Query Language:	
			Querying and manipulating data using Group by, Having, Order by	
	21-26	6	Structured Query Language:	
	2120	Ü	Working with two tables using equi-	
			join	
	28-31	4	Networking:	
			Introduction to networks: Network,	
			Types of network: PAN, LAN, MAN,	
	4.0	2	WAN.	
	1-2	2	Networking: Network Devices: modem, hub,	
			switch, repeater, router, gateway	
	4-8	5	Networking:	
			Network Topologies: Star, Bus, Tree,	
			Mesh. Introduction to Internet: Internet, URL,	Homework and
Aug			W W W	Classwork
25	11-16	4	Networking:	Ciasswork
		·	Introduction to Internet: its	Practical Works
			applications- Web, email, Chat, VoIP.	
				Class Tests
	18-23	6	Networking:	
			Website: Introduction, difference	
			between a website and webpage,	
			static vs dynamic web page, web	
	j		server and hosting of a website.	

Aug 25	25-30	6	Networking: Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.	Homework and Classwork Practical Works Class Tests
Sep 25	8-9	2	Societal Impacts: Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR) Societal Impacts: plagiarism, licensing and copyright	Homework and Classwork Practical Works Class Tests
	10-26	HALF YEARLY EXAMINATION		N

	7-10	4	Societal Impacts:	
Oct 25			free and open source software	
			(FOSS), cybercrime and cyber laws	
	13-18	6	Societal Importor	Homework and
	13-10	O	Societal Impacts: hacking, phishing, cyber bullying,	Classwork
			overview of Indian IT Act	
	20-25	6	Societal Impacts:	Practical Works
			E-waste: hazards and management.	Class Tests
	27-31	5	Societal Impacts:	
			Awareness about health concerns related to the usage of technology.	
_	1	1	Revision	
Nov 25		-		Homework and
	3-7	4	Revision	Classwork
	10-15	6	Revision	Practical Works
	17-22	6	Revision	Class Tests
	24-25	2	Revision	
	26-30		PRE-BOARD EXAM	
	PRE-BOARD EXAM			
Dec	COMMOM PRE-BOARD EXAM			
25				

Jan 26	CBSE PRACTICAL EXAM
Feb 26	CBSE THEORY EXAM
Mar 26	

Mrinmoy Paul (PGT CS)
Subject Teacher & HOD