WEEKLY SPLIT UP SYLLABUS: 2021-22 CLASS: XII Comm SUB: Informatics Practices (065) Name of the Book: NCERT, Sumita Arora

MONTH	WEEK	ALLOTTED	ΤΟΡΙϹ	CONTENT
		DAY		
	5-9	3		Introduction to Python libraries- Pandas, Matplotlib. Data
				structures in Pandas - Series and data frames.
April	12-16	3		Series: Creation of series from ndarray, dictionary, scalar
			Data Handling	value; mathematical operations
	19-23	3	using Pandas -I	Series attributes, head and tail functions; selection,
				indexing and slicing.
	23-30	3		Data Frames: creation of data frames from dictionary of
				series, list of dictionaries, text/CSV files, display, iteration.
				Operations on rows and columns: add add, select, delete,
				rename,
	1	-		-
			Data Handling	Head and Tail functions, indexing using labels, Boolean
Iviay	3-8	3	using Pandas -I	indexing; joining, merging and concatenation of data
				frames.
	21-26	3		Importing/Exporting Data between CSV files and Data
June	20.00	2		Frames.
	28-30	3		Revision
	1-3	3		Descriptive Statistics: max, min, count, sum, mean,
				median, mode, quartile, Standard deviation, variance.
	F 40	2		Data Frame operations: Aggregation, group by, Sorting,
	5-10	3	Data havelling	Deleting and Renaming Index, Pivoting.
tub.	40.47	2	Data handling	Handling missing values – dropping and filling.
July	12-17	3	using Pandas –	Importing/Exporting Data between MySQL database and
			11	Pandas.
	10.24	2		Data Visualization : Purpose of plotting, drawing and saving
	19-24	3		of plots using Matplotlib (line plot, bar graph, histogram,
				pie chart, frequency polygon, box piot and scatter piot).
				adding label title and logond in plots
	26.21	2		adding label, title, and legend in plots.
	20-31	2 2		Math functions: DOWER () ROUND () MOD ()
	2-7	5	Databasa	Toxt functions: HCASE ()/HDDEP () LCASE ()/LOWEP () MID
Διισ				()/SUBSTRING ()/SUBSTR () LENGTH () LEET () RIGHT ()
Aug			SOI	() SOBSTRING $()$ SOBSTR $()$, ELIVERT $()$, ELIV $()$, REFT $()$, REFT $()$,
	9-1/	3	301	Date Eurotions: NOW () DATE () MONTH () MONTHNAME
	5 14	5		() YEAR () DAY () DAYNAME ()
				Aggregate Functions: MAX (), MIN (), AVG (), SUM ()
				COUNT (): using COUNT (*).
				Querving and manipulating data using Group by Having
	16-21	3		Order by, Operations on Relations - Union. Intersection.
				Minus, Cartesian Product, JOIN (Cartesian Join. Equi Join.
				Natural Join)
	23-28	3		, Revision
	30-31	3		

MONTH	WEEK	ALLOTTED	ΤΟΡΙϹ	CONTENT
		DAY		
	1-4	3	Introduction to	Introduction to networks, Types of network: LAN,
			Computer	MAN, WAN.
			Networks	Network Devices: modem, hub, switch, repeater,
				router, gateway
	6-11	3		Network Topologies: Star, Bus, Tree, Mesh. 7
Sep				Introduction to Internet, URL, WWW and Its
	12 10	2		Applications- Web, email, Chat, VOIP.
	12-10	5		website. Infoduction, unterence between a website and
				hosting of a wobsite
	20.25	2		Making Decord File
	20-25	2		Starting Project
	27-30	5		
Oct	1-2	-	Dovision for UV	Mara practice on practical based Os
Oct	4-9	2	Revision for HY	More practice on practical based Qs
	25-30	2	0	Web Barrier Island all a second secold as a second
	1-6	2	Computer	Web Browsers: Introduction, commonly used browsers,
	8-13	2	Networks	browser settings, add-ons and plug-ins, cookies.
	15-20	2	Societal	Digital footprint, net and communication etiquettes, data
			Impacts	protection, intellectual property rights (IPR), plagiarism
NOV	~~~~			licensing and copyright, free and open source software
	22-27	2		(FOSS), cybercrime and cyber laws, hacking, phishing,
		-		cyber bullying, overview of Indian II Act.
	29-30	6		E-waste: hazards and management.
				Awareness about health concerns related to the usage of
				technology.
	1-4	2		Making project based on Python and MYSQL connectivity
Dec	6-11	2	_ • •	
	13-18	2	Project	
	10-14	1		
Jan 22	17-21	1		
	24-28	1	Revision	Solving CBSE Sample papers
	1-4	2		Preparing students for CBSE Practical & Theory
Feb 22	7-11	2		with guidelines
	14-18	2		
	21-25	2		