



BOKARO PUBLIC SCHOOL

SECTOR-III/C, B.S.CITY

SYLLABUS SESSION 2025-26

Class- 12

Subject- Informatics Practices(065)

Sl.No	MONTHS	W/D	T/D	CHAPTER'S NAME/TOPIC	STATUS
1	April	25	22	Unit 1: Data Handling using Pandas-1. Introduction of Python Libraries Pandas, Matplotlib. Data Structures in Pandas - Series and Data Frames. Series: Creation of Series from -ndarray, dictionary, scalar value; mathematical operations, Head and tail functions; selection, indexing and Slicing. Data Frames: Creation from dictionary of Series, list of dictionary, text, csv files. Operation on rows and columns: add, select, delete, rename Importing and Exporting data between Csv file and data frame.	
2	May	9	7	Data Visualization: Purpose of Plotting, drawing and saving following types of plots using Matplotlib -line plot, bar graph, histogram. Customizing plots: adding label, title and legend in plots	
3	June	18	15	Unit 2: Database Query using SQL. Math function: POWER(), ROUND(), MOD() Text function: UCASE/UPPER(), LCASE ()/LOWER(), MID()/SUBSTRING() /SUBSTR(), LENGTH(), LEFT(), RIGHT (), INSTR(), LTRIM(), RTRIM(), TRIM() Date Functions: Now(), DATE(), MONTH(), MONTH NAME(), YEAR(), DAY(), DAY NAME().	
4	July	27	23	Unit 2: Database Query using SQL Aggregate functions: MAX(), MIN (), AVG(), SUM(), COUNT(); Querying and manipulating data using Group by, Having, Order by Unit 3: Introduction to computer Networks. Introduction to network types of network: LAN, MAN, WAN. Network Devices: modem, hub, switch, repeater, router, gateway, Network Topologies: Star, Bus, Tree, Mesh.	
5	August	22	18	Unit 3: Introduction to Computer Networks. Introduction to Internet, URL, WWW, and its application-Web, email, Chat, Volp. Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website. Web browser-Introduction, Commonly used browsers, browser setting, add-ons and plug in, cookies.	
6	September	22	9	REVISION OF UNIT-1, UNIT-2 UNIT-3	

7	October	15	12	Unit 4. Societal Impacts. Digital footprint, not and Communication etiquettes, data protection, intellectual property, rights (IPR), plagarism, licensing and copyright, free and open source software (FOSS), cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act. E- Waste: hazards and management. Awareness about health concerns related to the usage of technology.	
8	November	24	20	REVISION OF UNIT-1, UNIT-2, UNIT-3, UNIT-4.	

- **Note :-**
- **Book Name :-**
- **Publishers :-**
- **Teacher's Name:- Mr. Aman Kumar Sharma**