BAGARIA BAL VIDYA NIKITAN

LAXMANGARH-SIKAR

SYLLABUS & LESSON PLANNER-2022-23

Class:-	XI
Subject:-	IP
Teacher Name:-	Madhusudan Sharma

SYLLABUS

Ch.No	Name of Chapter	working day	Period	Topic	Month	Week
1	Computer System	9	11	Introduction	June	3
				Computer System		3
				Computer Organisation		3
				Input and Output Units		3
				The CPU		4
				The Memory Unit		4
				Cache Memory		4
				The Storage Unit		4
				The System Bus	July	1
				Computer System & Data		1
				System Software		1
				Application Software		2
				Proprietary Software		2
				Open Source Software		2
2	Getting Started with Python	26	21	Introduction		3
				Python - Pluses		3
				Python Some Minuses		4
				working in Python (Spyder)		4
				Understanding First Program /script		4
				Introduction		1

3	Python Fundamentals	23	30	Python Character Set	Aug	1
				Tokens		1
				Keywords		1
				Identifier		2
				Literals		2
				Operators		2
				Punctuators		2
				Barebones of Python Program		3
				Variables and Assignments		3
				Creating a variable, Multiple assignment		3
				Variable definition		3
				Dynamic Typing		4
				Simple input and Output		4
				reading numbers		4
				output through print() function		4
4	Data Handling	25	34	Introduction	Sep	1
				Data Types- Numbers, Strings, List and Tuples, Dictionaly		1
				Mutable and Immutable Types		1
				Operators - Arithmatic, Relational, Identity, Logical		1
				Operator Precedence		2
				Expression- Evaluating Expressions		2
				Type Casting		2
				working with math module of Python		2
				debugging- Errors in Program		3
5	Flow of Control	25	34	Introduction		3
				Types of statements in Python		3
				statement flow control		3
				the If statement of Python- if, if-else, if-elif, nested if		4
				repetition of Tasks- a Necessity		4

				The range( ) function		4
				Iteration/ Looping Statements- for, nested, while	Oct	
6	List Manipulation	21	27	Introduction		
				Creating and Accessing a lists	Nov	1
				List operations- Joining, repeating, slicing		1
				Making True copy of lists		1
				list functions and methods		1
				a list can contain lists as elements		2
				working with lists (list manipulation)		2
				Appending elements to a list		2
				Inserting an element in list		3
				modifying elements to a list		3
				deleting an element from list		4
				sorting a list		4
7	Dictionaries	24	16	Introduction	Dec	1
				dictionary- Key:Value pairs		1
				Creating, Accessing a dictionary		1
				Characterstics of a dictionary		1
				working with dictionaries- Multiple way to create diction		1
				adding elements, Updating, Deleting, checking for existe		2
				preety printing		2
				Dictionary function and methods		2
				get length		2
				creating new dictionary		2
				accessing items, keys and values		3
				extend/ Update dictionary		3
				deleting elements from dictionary		3
				Introduction		3
				what is data and its purpose?		4

8	Understanding Data	23	30	Importance of data,		4
				types of data		4
				data processing Cycle		4
				basics statistical techniques of data processing		4
9	Working with Numpy	24	18	Introduction	Jan	1
				Numpy Array- Anatomy, Anupy vs Python List		1
				Numpy Data Types		2
				Creating Numpy Array- 1D, 2D, Internally Stored Data		2
				Working with Numpy array- Accessing, Modifying, Slicing		3
				Arithmetic Operation on ID, 2D		3
				Using functions with Numpy arrays- count( ), mode( )		4
10	Database Concepts	23	30	Introduction		1
				File Based System		1
				Introducing database system- DBMS, Converting, Key Co		1
				RDBMS		1
				Relational Model Terminology		1
				Brief History of MySQL		2
				MySQL Database System		2
				MySQL and SQL		2
11	Structured Query Language			Introduction		2
				MySQL Elements- Literals, data types, Null values, Comm		2
				SQL command Syntax		3
				databases in MySQL- Creating, Opening, removing datab		3
				Creating Tables	Feb	3
				Inserting data in Tables		3
				Making Simple Select Queries		3
				More DML commands		4
				More DDL commands		4
				Introduction		4

12	Emerging Trends			Artificial Intelligence		4
				Robotics		4
				Big Data		4
				Internet of things		4
				Cloud Computing		4
				Grid Computing		4
				Blockchain Technology		4