DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
GOVERNMENT PLYTECHNIC JASHPUR (C.G.)

LESSON PLAN SESSION JUL – DEC 2024

SUBJECT: **SCRIPTING LANGUAGE (PYTHON)**   SEMESTER: **3RD**

BRANCH: - **COMPUTER SCIENCE & ENGINEERING**

UNIT NUMBER	NAME OF THE TOPIC	NO OF CLASS REQUIRED	REMARK
UNIT 01: **Introduction to Python Programming**	1.1 Features of Python	01	

	1.2 Working mode
	   1.2.1 Interactive mode
	   1.2.2 Script mode
		01	

	1.3 Variable and Data types
	   1.3.1 Numbers
	   1.3.2 Sequences
		02	

	1.4 Keywords	01	

	1.5 Operators
	   1.5.1 Relational
	   1.5.2 Logical
	    1.5.3 Assignment
		02	

	1.6 Input and Output
	   1.6.1 raw input
	   1.6.2 print
		01	

	Doubt Class	01	

Unit 02:
 	
Control Structure
	2.1 Decision making
	   2.1.1 The if else statement
	   2.1.2 if-elif-else statement
		03	

	2.2 Control flow
	   2.2.1 while loop and its nesting
	   2.2.2 for loop
	   2.2.3 break, continue statement
		03	

	Doubt Class	01	

Unit 03:
 	
Sequence, Dictionary & Built in Function
	3.1 Sequence
	   3.1.1 List: create, access & update list, basic operation on
	   list, built in function of list
	   3.1.2 Declaration of Pointer
		03	

	3.2 Dictionary 3.2.1 Basic operation, Built in function and method	02	
	3.3 Calendar and time function	01	
	3.4 Built in function of Python: cmp, range round	01	
	Doubt Class	01	

Unit 04:
 	
Function and File handling
	4.1 Introduction to module,
	   4.1.1 import module
	   4.1.2 form module
	   4.1.3 math and random module
		02	

	4.2 user defined function
	   4.2.1 need of user defined function
	   4.2.2 define and declare function
	   4.2.3 function with return type and arguments
		03	

	4.3 Exception handling
	   4.3.1 need of exception handling
	   4.3.2 raise, try, catch and finally
		03	

	Doubt Class	01	

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
GOVERNMENT PLYTECHNIC JASHPUR (C.G.)

Unit 05:
 	
GUI Programming
	5.1 Need of GUI
	    5.1.1 Advantage of GUI
	    5.2.1 List of graphic library
		01	

	5.2 Tkinter graphic
	    5.2.1 creating window
	    5.2.2 label, button, checkbox
	    5.2.3 action on button click
	    5.2.4 text entry box
	    5.2.5 layout management using pack(), frame(), grid(),
	    menu(), canvas(), create_line(), create_image()
	    5.2.6 events-capturing mouse
	    5.2.7 tkMessage Box, askyesno
		05	

	Doubt Class	01	
Total Class Required		**40**	

Lecturer Name & Sign: - MANISH DONGRE
                      LECTURER, CSE, GPJ