



Bharati College (University of Delhi) Janak Puri, Delhi- 100058 www.bharaticollege.du.ac.in

Lesson Plan (CORE, Semester V, July to November 2022)

Name of Teacher	Dr Sarita Kadian	Department	Computer Science	
Course	B.A prog	Semester	V	
Paper	Programming with python	Academic Year	2022-2023	
Learning Obj	jectives			
The course intr	roduces programming in Python and develops Py	rthon-based solut	ions for simple problems.	
Learning Out	tcomes			
 select a suitable programming construct and inbuilt data structure for a situation. develop and document modular Python programs. use classes and objects in application programs. Lesson Plan				
Week No.	Theme/Curriculum	Any	Additional Information	
1	Introduction to Python Structure of a Python program, understanding Python interpreter/Python shell.			
2	Introduction to Python (contd) Identifiers and keywords, literals, Python data types, Operators: arithmetic operator.)		
3	Introduction to Python (contd) Relational operators, logical operators, Python standard libraries, variables and assignment statements.			

4	Introduction to Python (contd)	
	Notion of class, object.	
5	Functions	
	Built-in functions such as input and print, function	
	definition and call, default parameter values.	
6	Creating Python Program:	
	Input and output statements, control statements -	
	branching, looping.	
7	Creating Python Program (contd):	
	Exit function, break, continue and pass, mutable	
	and immutable structures, strings, tuples.	
8	Control Structures :	
	If statement, for loop.	
9	Control Structures (contd)	
5	While loop, exit function, break and continue	
	statements.	

References

Downey, A. B. (2015). *Think Python–How to think like a Computer Scientist* (2nd Edition). O'Reilly.
 Severana, O. C. (2018). *Python for Everybody (Exploring Data in Python 3)*. Shroff Publisher.

Additional Resources

1. 1.Dromey, R.G (2006). *How to Solve it by Computer*. Pearson.

2.Guttag, J. V. (2016). Introduction to computation and programming using Python. MIT Press.

3.Liang, Y. D. (2013). Introduction to programming using Python. Pearson.

4. Taneja, S., & Kumar, N. (2017). Python Programming- A modular Approach. Pearson.