BLACK DIAMOND SCHOOL OF ENGINEERING,JHARSUGUDA

LESSON PLAN

Session (2022 -2023)

Discipline: COMPUTER SCIENCE & ENGINEERING	Semester: 5th Winter /2022	Name of the faculty: Bijay Patel Email Id: bijaypatel2@gmail.com
Subject: PYTHON PROGRAMMING LAB (Pr-3)	No. of Days/week: 02 (2 periods / Day) Experiments will be performed in small groups of 32 students	Start Date: 14/09//2022 End Date: 21/01/2023

Week	Class Day	Practical Topics
1st	1st	Introduction to Python Brief History of Python Python Versions Installing Python Environment Variables
	2nd	Executing Python from the Command Line IDLE Editing Python Files Python Documentation
2nd	1st	Revision /Assessment
	2nd	Basic Python Syntax :- Comments String Values String Methods The format Method 20 String Operators Numeric Data Types Conversion Functions Simple Output Simple Input The % Method The print Function
3rd	1st	Language Components :- Indenting Requirements The if Statement Relational and Logical Operators Bit Wise Operators
	2nd	Revision /Assessment
4th	1st	The while Loop Break and continue The for Loop
	2nd	Revision /Assessment

5th	1st	Collections :- Introduction Lists
	2nd	Tuples
6th	1st	Revision /Assessment
	2nd	Sets
7th	1st	Dictionaries
	2nd	Revision /Assessment
8th	1st	Functions:- Introduction Defining Your Own Functions Parameters Function Documentation Keyword and Optional Parameters
	2nd	Functions:- Passing Collections to a Function Variable Number of Arguments Scope Passing Functions to a Function
9th	1st	Revision /Assessment
	2nd	Modules Standard Modules - sys Standard Modules - math Standard Modules - time The Dir Function
10th	1st	Exceptions :- Errors Runtime Errors The Exception Model Exception Hierarchy Handling Multiple Exceptions Raise
	2nd	Revision /Assessment
11th	1st	Input and Output:- Introduction Data Streams Creating Your Own Data Streams Access Modes Handling IO Exceptions
	2nd	Classes in Python :- Principles of Object Orientation Creating Classes Instance Methods File Organization
12th	1st	Classes in Python :- Class Variables Inheritance
	2nd	Revision /Assessment
13th	1st	Polymorphism
	2nd	Revision /Assessment
14th	1st	Regular Expressions:- Simple Character Matches Special Characters

		Character Classes Quantifiers The Dot Character
	2nd	Regular Expressions:- Grouping Matching at Beginning or End Splitting a String
15th	1st	Revision /Assessment
	2nd	Practice Test