REV: 00

LAB / PRACTICAL PLAN

TLP-08

Name of Faculty: Khan Tabrez Mohd. Tahir **Year:** 2nd Half 2020 **Semester:** IV
Course Code: CSL405 **Course:** Skill Base Lab Course (SBLC)

Course Outcomes:

1. To implement basic concepts of python.
2. To implement advanced concepts of python.
3. To explore Django web framework for developing python-based web application.
4. To analyze the data using NumPy and Pandas libraries.
5. To communicate and present the solution effectively.
6. To analyze and design solution for given problem.

No	Name of Practical	Planned Completion Date (PCD) (YYYY-MM-DD)			Mapped CO(s)
		B1	B2	B3	
1	1.1 Write a python program to implement Comments, Datatypes, Expressions, Input and Output Functions. 1.2 Write a python program to implement List, Tuple, Dictionaries and Arrays.				CO1
2	2.1 Write python program to implement the For Loop. 2.2 Write python program to implement Functions.				CO1
3	3.1 Write python program to implement Classes, object, Static method. 3.2 Write a python program to implement Constructors.				CO2
4	4.1 Write python programs to implement Inheritance and Polymorphism with Method overloading and Method Overriding. 4.2 Write python program to implement different types of Exceptions.				CO2
5	Menu driven program for data structure using built in function for link list, stack and queue.				CO2
6	6.1. Python program to append data to existing file and then display the entire file. 6.2. Python program to count number of lines, words and characters in a file. 6.3. Python program to display file available in current directory.				CO2
7	Write a python program to implement GUI Application using Tkinter.				CO2

8	Program to demonstrate CRUD (create, read, update and delete) operations on database (MySQL) using python.				**CO2**
9	Creating web application using Django web framework to demonstrate functionality of user login and registration (also validating user detail using regular expression).				**CO3**
10	Programs on Threading using python.				**CO2**
11	Program to demonstrate use of NumPy: Array objects.				**CO4**
12	Program to demonstrate Data Series and Data Frames using Pandas.				**CO4**
13	Assignment 1				**CO5**
14	Assignment 2				**CO5**
15	Mini Project.				**CO6**

Course Owner **Program Owner**