


Round 1 Proposal

R0 without budget without comment ▼
Print

Name of Developer & Institute	Prof. Kantesh Balani Indian Institute of Technology Kanpur
Name of Participating Institute	Indian Institute of Technology Kanpur
Application Type	Participating Institute
Lab Name, ID & Discipline	Python for Basic Arithmetic Operations 172 Computer Science and Engineering
Name of Experiment	ii. Built-in Functions
Target Group	UG,PG

1. Focus Area


SNo.	Focus Area
1	Instrumentation and Practical skills
2	Reinforce theoretical concept



[Prof. Sushama Deshmukh](#)

Nov 28, 2019 22:28:29

Reinforce theoretical concept , Instrumentation and Practical skills



[Prof. Kantesh Balani](#)

Dec 05, 2019 16:38:17

Issue Resolved

2. Learning Objective and Cognitive Level

SNo.	LO ID	Learning Objective	Cognitive Level	Action Verb
1	603	Student will be able to recall the concepts of Functions in Python programming language.	Recall	Define
2	604	Student will be able to describe the use of Functions in Python programming language.	Understand	Describe
3	605	Student will be able to apply functions in various Python programs.	Apply	Apply

- 111 x 113

[Prof. Kantesh Balani](#)

Dec 05, 2019 17:10:52

Issue Resolved
- 111 x 113

[Prof. Sushama Deshmukh](#)

Nov 28, 2019 22:28:29

LO 605 re frame with solve action verb
- 111 x 113

[Prof. Kantesh Balani](#)

Dec 05, 2019 16:51:31

Issue Resolved
- 111 x 113

[Prof. Sushama Deshmukh](#)

Nov 28, 2019 22:28:29

LO 606 We already have Pretest and posttest so I suggest to you change this LO
- 111 x 113

[Prof. Kantesh Balani](#)


Dec 05, 2019 16:52:28

The issue is resolved

3. Instruction Strategy


Method	Assessment	Instruction Strategy
Summative Assessment	<div><div>· The main objective to develop this lab is to provide an interactive source of learn-ing for the students. The simulation that we provide fulfills our purpose.</div><div>· The learner will be easily able to understand Python programming language.</div><div>· The user will able to understand the use of Functions.</div><div>· With the help of our virtual lab, students get a chance to learn Python program-ming language as they are provided with an interactive simulator. It is beneficial in understanding the basics of Functions which simply cannot be understood by self-evaluation.</div></div>	Problem Based

LO ID	Learning Objective	Task	Assessment Question
603	Student will be able to recall the concepts of Functions in Python programming language.	student will select the function from drop down	Which of the following is not function in python ? A. type(A) B. Types(A) C. TypeOf(A) D. None of these
604	Student will be able to describe the use of Functions in Python programming language.	student select the function in simulator.	What is the use of function id(object) ? A. to return the identity of an object. B. to return the type of object C. to return the memory location of object. D. None of these
605	Student will be able to apply functions in various Python programs.	Student selects the choice of object in simulator.	What is the class return for "hell45" ? A. String B. Int C. Float D. None of these

- 


[Prof. Sushama Deshmukh](#)

Nov 28, 2019 22:28:29

How student will state the use of function in simulator
- 

[Prof. Kantesh Balani](#)

Dec 09, 2019 13:13:33

Issue Resolved
- 

[Prof. Sushama Deshmukh](#)

Nov 28, 2019 22:28:29

Task should be aligned with LOs

5. Simulator Interactions

Sno	What will student do	What will simulator do	Purpose
1	1. Examine the simulator screen and take note of all the instructions. 2. Press "Start" button 3. Press "Function by type" button. 4. Press "Execute" button. 5. Press "Reset" button. 6. Press "Quiz" tab.	1. Display all the simulator contents. 2. Display code in Python programming language. 3. To switch to type function simulator. 4. To run the Functions on your local machine. 5. Reset the simulator for a fresh start. 6. Display the quiz questions.	1. Display simulator interface. 2. To present a code to the user for better understanding. 3. To let the students know about the type function in python 4. To explain the meaning of each line of code. 5. To perform a fresh experiment. 6. To perform an evaluation of the knowledge gained by the user.

