CHHOTUBHAI GOPALBHAI PATEL INSTITUTE OF TECHNOLOGY

Department of Computer Engineering

A REPORT

ON

One Day Workshop titled

"Introduction to Scientific Computing using Python (ISCP)"

Organizing Department	**Computer Engineering**
Chief Patron	Dr. D. R. Shah, Provost, UTU
Patron	Dr. N. C. Shah, Director, CGPIT
Convener	Mr. Devendra Thakor, Head, CE Dept. , CGPIT
Coordinators	Ms. Kinjal Mistree Mr. Fenil Khatiwala
Target Audience	B. Tech. Students of Computer Engineering & Information Technology
Total Number of Participants	32
Date of Programme	1st October, 2019
Speakers	Prof. Prabhu Ramachandran, Department of Aerospace Engineering, IIT Bombay (through video lectures)

Schedule:

Sr. No.	Description	Time
1	1: Introduction to Python	09:00 - 09:10
2	2: Preliminaries	09:10 - 09:20
3	3: IPython & Plotting	09:20 - 10:15
4	Q & A	10:15 - 10:30
5	Quiz 1 (Yaksh portal)	10:30 - 10:45
6	BREAK	10:45 - 11:00
7	4: Saving Scripts	11:00 - 11:40
8	5: Plotting, Lists and Numpy Arrays	11:40 - 12:30
9	Q & A	12:30 - 12:45
10	BREAK	12:45 - 13:45
11	Quiz 2 (Yaksh portal)	13:45 - 14:00
12	6: Numpy Arrays	14:00 - 14:50
13	7: More on NumPy Arrays	14:50 - 15:40
14	Q & A	15:40 - 15:55
15	Quiz 3 (Yaksh portal)	15:55 - 16:05
16	BREAK	16:05 - 16:20
17	9: IPython notebooks	16:20 - 16:50
18	Q & A	16:50 - 17:00
19	Quiz 4 (Yaksh portal)	17:00 - 17:20

Details of the Workshop:

Python language is dominating the emerging and cutting-edge technologies like data science, artificial intelligence, machine learning and many more. The FOSSEE team at IIT Bombay offers training programs in Python language. These are live assisted remote, interactive workshops. Participants gain hands-on experience in Python through a series of practice sessions and quizzes.

Keeping learning by doing as main objective, the workshop on "Introduction to Scientific Computing using Python (ISCP)" was organized by Ms. Kinjal Mistree and Mr. Fenil Khatiwala, Assistant Professors of Computer Engineering Department, Chhotubhai Gopalbhai Patel Institute of Technology, Bardoli. The workshop was targeted for the 5th

semester UG students of Computer engineering and Information Technology disciplines of CGPIT.

The workshop was conducted on 1st October, 2019, at IBM lab of Maliba Pharmacy College, UTU. Dr. Devendra Thakor, Head of Computer Engineering, CGPIT, UTU welcomed all 32 participants and briefed about objectives and expected outcomes of workshop. Participants then learned various important topics related to Python language through video lectures by Prof. Prabhu Ramachandran, Department of Aerospace Engineering, IIT Bombay.

Queries/doubts asked by participants during live interaction were answered by FOSSEE's Python experts. Participants took part in total four quizzes on YAKSH portal designed by FOSSEE and based on their performance, graded e-certificates were issued after successful completion of the course.

Glimpse of the Workshop:

Participants during session

Participants with workshop coordinators