

Training – Python Training Program		
Target Group – Professors, Scientists, RA, SF, YP-II, PG and Ph.D. Students		
Date of Training	8 th Dec – 17 th Dec, 2020	
Time	3.30 p.m. – 5.00 p.m.	
Location	CAE, JNKVV, JABALPUR	
1. Training Objective		
Python Training Program under NAHEP-CAAST-CSDA Project.		
Participants		
Coordinator - Dr. M.K. Awasthi, Co-PI, Dr. Sourabh Nema, Dr. Minakshi Meshram, Dr. Papat Shivaji Pawar, Dr. Umakant Rawat, Dr. Devendra Vasht, Pratiman Patel, Aniket Rajput, Anjali Patel, Rachit Nema, Krishna Singh, Pratima Pathak.		
2. Contents of event		
Date	Speaker	Course Topic
8 th Dec 2020 (Day 1)	Mr. Sathish Singh and Mr. Sagar	Anaconda Download and environment set up, Introduction to Jupyter Notebook, The Basics of Python
9 th Dec 2020 (Day 2)	Mr. Sathish Singh and Mr. Sagar	Basics of Python Dictionary, Tuples, Sets and their examples
10 th Dec 2020 (Day 3)	Mr. Sathish Singh and Mr. Sagar	Basics of Python Dictionary, Tuples, Sets and their examples
11 th Dec 2020 (Day 4)	Mr. Sathish Singh and Mr. Sagar	Conditional programming (if-else, Lopping for a while, Comprehension, Functions)
12 th Dec 2020 (Day 5)	Mr. Sathish Singh and Mr. Sagar	Python functions, Map reduce, Dify
13 th Dec 2020 (Day 6)	Mr. Sathish Singh and Mr. Sagar	Numpy Basics, array, Slicing dicing, merging sorting and Operations of Numpy array with examples
14 th Dec 2020 (Day 7)	Mr. Sathish Singh and Mr. Sagar	Panda Basics, Merging concatenating, Grouping and Summarizing, Lambda function pivot table, handling missing data
15 th Dec 2020 (Day 8)	Mr. Sathish Singh and Mr. Sagar	Introduction to matplotlib, cluster dimension, market fact, order dimension
16 th Dec 2020 (Day 9)	Mr. Sathish Singh and Mr. Sagar	Production dimension, shipping dimension, lending club
17 th Dec 2020 (Day 10)	Mr. Sathish Singh and Mr. Sagar	Drop rows with null value, Standardizing value, Split column for more data: split address to get address to get state and city to analyze each separately.

3. Discussion with participants	Thank you for a great course of training conducted by NAHEP-CAAST-CSDA. During the program the participants were trained on advanced system administration options in python as well as, Great presentation style with lots of opportunities to ask questions and talk about python.
Output of training	Registration of 274 participants received and finally 124 regularly attended the course and assigned activities. By learning python, the participants understand about the python programming, its application in data analysis and map/graph creation and capable to integrate the similar kind of analysis for their research and can use this language for short programming's. In this programme, total count of male participants were 179 and total female participants count were 95 and percentage of participants in different category were observed as UR- 50%, SC- 12%, ST- 5% and OBC- 33%. As per feedback received from participants, 71% respondent found the python programming session as excellent and 14% rated the session good. They have learnt new things about programming and will be useful in their research. The resource person in this programme was Mr Satish Singh.

Distribution of participants Table: Training on Python Programme									
Number of Participants					% of participants in diff. category				
Gender	UR	SC	ST	OBC	Total	UR	SC	ST	OBC
Male	87	20	10	62	179	48.6	11.2	5.6	34.6
Female	51	13	3	28	95	53.7	13.7	3.2	29.5
Total	138	33	13	90	274	50.4	12.0	4.7	32.8