

Subject: Python Workshop Report

The following is a report on the three day workshop on "**Python Programming and it's Applications**" organized from **26th - 28th of September, 2018** by Department of Computer Science, Deen Dayal Upadhyaya College (University of Delhi) during the session 2018 - 2019:

26 September 2018, Wednesday

A 90 minute introductory session was conducted by **Dr. Rajni Bala** which started at 09:30 AM which included **basic constructs of the language, variables, operators, functions (built in and user defined)**. Then, a 30 minutes break was taken and students were provided with refreshments. Post the refreshment session, the next session started with an amazing energy which was taken by **Mrs. Preeti**. She covered **control structures, break and continue statements** of the Python language. The next session started with great enthusiasm and was conducted by **Dr. Arpita Sharma** and she kept all the students connected till the lunch break at 02:00 PM.

The event resumed at about 03:00 PM with regained energy in students. **Dr. Arpita Sharma** started the concepts of **Strings and Lists**. All were engaged in grasping more than what they could with utmost concentration and dedication. Adjacent exercises with the concepts helped the students to strengthen the concepts and tackle different problems.

At 04:30 PM, work for the day completed and everyone left joyful and satisfied.

27 September 2018, Thursday

The second day started with astonishing energy led by **Dr. Arpita Sharma** from 9:30 AM till the refreshments break. The concepts of **tuples and dictionaries** were introduced dynamically and seem to be proficient to the participants.

After the refreshments session, tremendously energetic, **Mr. Ankit Rajpal** took over with his exceptional session on **error handling and file handling** in Python till the lunch break at 02:00 PM.

After the lunch break, the session resumed with **Dr. Rajni Bala** educating everyone with the concepts of **classes and objects**, one of most important and basic concept of the language on which the whole language is unified. So, all the students took this session very seriously, and were able to solve almost all of the practice problems given at the end of the session.

That's how the Day 2 ended at 04:30 PM, everyone in hope of something exciting for the last day, because every basic thing had now been covered.

28 September 2018, Friday

The last day started with a dynamic session taken by **Mrs. Preeti** with the introduction of **numpy and graphics** in Python. A lot of good information was provided by her presentation throughout the session. She kept everyone engrossed till the refreshments break at 11:30 AM.

The next session surprised almost everyone in the workshop with the enormous power of Python language and it's applicability. This session was conducted by **Mr. Ankit Rajpal** where he covered **database connectivity with and Python and building Twitter applications with Python**. This session attracted everyone's attention and everyone was excited by seeing a language fetch real and

live tweets from Twitter coming out on a console. Everyone was thrilled and amazed by this time, and then the lunch break began.

Post the lunch break, an online quiz test was given by all the students who participated in the workshop, and then they were awarded with their certificates.

The top 3 ranked students were given extra prizes for their performance, they were:

1. **Jaideep Shekhar (CS(Hons.) 1st year)**
2. **Vineet Kumar (CS(Hons.) 2nd year)**
3. **Shraddha (CS(Hons.) 3rd year)**

A total of **40** students ranging from first year students to third year students from **Computer Science (Honours), Physical Sciences with Computer Science, Physics (Honours)** and **B.M.S.** took part in this workshop. The good part is that the workshop had only 40 limited seats, so it was a house full event.

Mr. Sanjeet Kumar from the Department of Computer Science provided constant support throughout the workshop, and helped sharing resources and figuring out students' problems with the concepts, while solving the given exercises.

Mr. Manmohan Pushkarna provided all the necessary technical support in the lab throughout the workshop.

The following student resource persons helped a lot throughout the workshop, and were awarded certificates for their exceptionally outstanding work. They ensured smooth execution of the workshop in all of the possible ways. They were:

- Ankush Khanna (CS(Hons.), 3rd year)**
Abhishek Sharma (CS(Hons.), 3rd year)
Riya Swami (CS(Hons.), 3rd year)
Himanshu Singhal (CS(Hons.), 2nd year)





