

Department of Computer Science and Engineering

A One Week Faculty Development Programme on Advanced Python Programming

During 05th to 09th August 2019

The Department of Computer Science and Engineering, Sree Vidyanikethan Engineering College in association with Bennett University, Greater Noida, organized a one week Faculty Development Programme (FDP) from 5th to 9th August 2019.

The core idea of the programme was to explore advanced concepts in *Python Programming* and to promote student centric, effective teaching-learning pedagogy among the participants. The programme aimed at faculty handling *Python Programming* in various disciplines of engineering. A total of 26 participants attended the programme. Dr. K Delhi Babu, Professor and Dean-Placements, SVEC was the Chief Guest of inaugural function. He spoke about the evolution of *Python Programming* from the industry perspective. Dr. C Madhusudhana Rao, Professor of CSE inaugurated the programme. During the inaugural address, he highlighted the emerging transformations in IT industry and the importance of learning *Python Programming*. Dr. B Narendra Kumar Rao, Professor and Head, Dept. of CSE, SVEC welcomed the participants and briefed them the initiatives of the department and collaboration with different agencies in promoting *Python Programming*.



Dr. B. Narendra Kumar Rao, Professor and Head, delivering the inaugural address of the programme.

The resource persons from reputed institutions like Bennett University, Greater Noida and Annamalai University, Tamil Nadu delivered expert lectures on relevant areas during the Faculty Development Programme.

On day one, Dr. Sridhar Swaminathan, Bennett University, Greater Noida, took the first and second sessions. In the first session, he focused on Large Scale Text Analytics and explained the fundamentals of Neural Architecture and Deep-Neural Models, followed by hands-on sessions. The second day of the programme was on Image Classification and Segmentation using Convolution Neural Network and its variants. The session was delivered by Dr. V Ananatha Natarajan, Associate Professor Dept of CSE, SVEC. The participants were engaged in hands-on practice session on Azure Notebook (Cloud Environment). On the third day of the programme, Dr. S Jothilakshmi, Professor, Dept. of IT, Annamalai University delivered a lecture on the Machine Learning Algorithms and Programming in Python Language. The participants practiced to solve Classification and Regression problems using Machine Learning Algorithms in Python language. The technical sessions of the fourth day were handled by Mr. I Reddy Sekhar Reddy and Mr. S Bavaji on Advanced Data Structure (TRIE Data structure) and Algorithms. On the

last day of the programme Dr. Asadi Srinivasulu, Professor, Dept. of IT, SVEC gave a lecture on Spark Programming with Python.



Dr. S Jothilakshmi, Professor, Dept. of IT, Annamalai University delivering a lecture on Machine Learning Algorithms Using Python.

The significant phase of the programme was that the half of the programme duration was devoted to the hands on sessions and demonstrations. The participants' feedback revealed that the programme was a perfect blend of technical knowledge on the advances in *Python Programming* and its allied technologies. The Faculty Development Programme (FDP) met its prime objectives to bring the faculty of different engineering departments on a single platform to update with the latest advances in the *Python Programming* and its applications for conducting effective research and teaching learning practices.

Outcomes of the Programme:

- The participants were able to gain knowledge on advanced modules of Python Programming.
- The members of faculty acquired hands-on skills for using libraries to handle text and image processing techniques.