

**Faculty Development Programme (FDP)**  
**on**  
**“Recent Trends in Big Data and Cloud Computing”**

**Overview:**

Department of Information Technology at Indira Gandhi Delhi Technical University for Women (IGDTUW) organized a week long Faculty Development Programme (FDP) on “Recent Trends in Big Data and Cloud Computing” during 16<sup>th</sup> – 20<sup>th</sup> December, 2013.

**Valedictory Ceremony:**

FDP concluded in the afternoon of 20<sup>th</sup> Dec’13 with a Valedictory Ceremony in which certificates were distributed to the participating faculty members from various engineering colleges and universities in Delhi NCR. Valedictory Ceremony was presided over by Prof. Nupur Prakash, Vice Chancellor, IGDTUW. Padma-Shri Dr. Pritam Singh, Managing Director & Professor at International Management Institute, Delhi was the Chief Guest and Prof. Renu Cheema Vig, Director, UIET, Panjab University, Chandigarh was the Guest of Honor. Head of Department, Prof. Rajni Jindal was also present on the occasion.

**Speakers and Topics:**

FDP was kick started with a visionary inaugural address on the first day i.e. 16<sup>th</sup> Dec’13 by Vice Chancellor, **Prof. Nupur Prakash** who very succinctly and lucidly outlined the current trends in the area of Big Data and Cloud Computing. Keynote Address was delivered by another pioneer in the field of Cloud Computing, **Prof. Seema Bawa**, Dean & Professor at Thapar which was aptly supported by the talk later in the day by **Dr. Savita Goel** from IIT, Delhi on Applications of Big Data. Day ended with tutorial session from **Mr. Hari Singh Rawat**, a PhD scholar from Thapar University.

Day two talks comprised of research experts from IBM India Research. **Dr. L. Venkat Subramaniam**, Manager at IBM Research gave captivating lecture on Real World applications of Big Data, bringing over 15 years of his research experience. It was followed up by talks by two young researchers **Mr. Himanshu Gupta** and **Mr. Bhupesh Chawda** in his group on Hadoop, an open source framework for Big Data.

Day three began with a talk on Mobile Cloud Architecture by **Dr. S. R. N. Reddy**, a senior faculty from Comp. Sc. Department who has been working very closely with Nokia. Then came the much awaited session of **Dr. Maninder Singh**, Associate Professor at Thapar University, a network guru and security wizard. In the matter of few minutes, he demonstrated how a malicious code can be embedded in an executable file which can grant access to the entire system to an attacker without the knowledge of the victim. He, then, went on to explain “Cloud Stack”, an open source cloud computing framework that provides Infrastructure as a Service.

Day four started with yet another impressive lecture by **Dr. Anita Goel**, Associate Professor from Delhi University who explain object storage on “Open Stack”, an open source cloud computing implementation. This was followed up by a tutorial session by her PhD scholars. Next came the talk on Virtualization in Cloud by **Mr. Gopal Krishan**, an expert from IIT, Delhi who played a pivotal role in setting up of Baadal, cloud computing environment at IIT, Delhi. Day concluded with an interesting talk by **Dr. V. B. Singh** on reliability issues in Cloud.

On last day i.e. 20<sup>th</sup> Dec’13, an insightful talk was delivered by **Dr. Amar Mohapatra**, Associate Professor, IP University on Cloud Security Architecture which was followed

up by an interesting lecture by an in-house faculty **Dr. Shashi Karhail** on Green Computing.

**Participants:**

More than 25 faculty members and PhD scholars registered in the FDP from reputed organizations like Delhi Technological University and Delhi University. Faculty members from various engineering colleges like Bhartiya Vidhyapeeth, BPIT, GTBIT, etc. also participated. In addition a number of faculty members from IGDTUW participated as well from the departments of information technology, computer science, applied science and mechanical & automation engineering.

**Organizing Team:**

Prof. Rajni Jindal, Dr. R. K. Singh, Dr. Kalpana Yadav, Mr. Rishabh Kaushal , Ms. Ankita, Ms. Kokila Gupta, Ms. Pragya Kuchhal, Ms. Aruna Bhat, Ms. Neetika bhandari, Dr. Shashi, Ms. Nidhi Arora and Ms. Charu Gupta