



Ministry of Electronics and Information Technology (MeitY)

Govt. of India supports its

Electronics and ICT Academies to organize Faculty Development Programme on

Big Data Analytics during 21st – 25th May, 2018 at

IIT Guwahati, IIT Roorkee, IIITDM Jabalpur, MNIT Jaipur, NIT Patna and NIT Warangal

About Summer Courses

Faculty Development Programmes in core areas of Electronics and Information & Communication Technology (ICT) streams have been planned by academies for delivery during Summer (i.e., May - June 2018). All these summer courses will be offered through National Knowledge Network (NKN) by inviting experts from IITs, NITs, IIITs and other premier institutes/industries. In addition, local course coordinators at respective academies /identified remote centres will take care of sessions on design oriented/activity linked problems/ assignments/ case studies and quiz test(s).

These courses will be delivered at E & ICT Academies/identified centres through NKN infrastructure. Candidates could apply for training at academy locations or identified centres as per the convenience.

Course 1: Big Data Analytics (21st-25th May'2018)

Principal Coordinator Academy	Support Coordinator Academy	Participating Academies and Local Coordinator Details
Dr. R.B.V. Subramanyam rbvs66@gmail.com NIT Warangal	Dr. Manish Kumar Bajpai mkbajpai@iiitdmj.ac.in IIITDM Jabalpur	NIT Warangal - Prof. R. B. V. Subramanyam rbvs66@gmail.com
		IIITDM Jabalpur - Dr. Manish Kumar Bajpai mkbajpai@iiitdmj.ac.in
		MNIT Jaipur - Dr. Namita Mittal nmittal.cse@mnit.ac.in
		IIT Guwahati - Dr. Guarav Trivedi trivedi@iitg.ernet.in

Module details of Big Data Analytics:

S.No.	Module Name	Topics
1.	Introduction to Big Data Analytics and Map reduce Computing	Introduction to Big Data. Overview of Hadoop. Overview of Map - Reduce Computing. Details of MR computing paradigm. Problems and Practice.
2.	Hadoop and SPARK Programming	Implementation of MR on Hadoop. Features of SPARK and other ecosystems.
3.	NoSQL Databases	Overview of NoSQL databases. CAP theorem. BASE properties. Mongo DB. Hands-on using MongoDB, PIG, and HIVE.
4.	Text Analytics	Text Processing and Analysis along with Case Studies.
5.	Graph Analytics	Graph Data Processing using Big Data Technologies. Social

		Network
6.	Distributed Systems vs Big Data Technologies	Internals of Big Data Technologies. Low level processing of Data. Open MP/MPI based programs.

Registration Fee: No Registration fee is charged for attending this programme planned at any designated academies/Remote centers. However, candidate should submit a refundable Demand Draft of Rs.1000/- along with application and the same will be handed over to participant on the last day of the training. Satisfactory Certificate will be given subject to fulfillment of attending all sessions, submission of assignments and clearing the test(s).

Last Date of Registration: 17th May'2018.

Participants can also attend the course at the following Remote Nodal Center

Maulana Azad National Institute of Technology, Bhopal, Madhya Pradesh.

Remote Center Coordinator: Dr. Nilay Khare & Dr. Akhtar Rasool

Email: nilay.khare@rediffmail.com