

Faculty Development Programme
**Security and Privacy in Big Data
Analytics**

www.nitc.ac.in/nitc/seminars/spbda

June 18-23, 2018



Organized by



**Department of Computer Science and
Engineering
National Institute of Technology Calicut**

Under TWINNING WITH



**Department of CSE & IT
Govt. Engineering College Bharatpur
Bharatpur, Rajasthan -321303**

Sponsored by TEQIP –III, MHRD

About the Department

The Department of Computer Science & Engineering was established in June 1997. The department offers two post graduate programmes and an undergraduate programme in Computer Science & Engineering, the Ph. D programme and an MCA programme.

The major areas of research in the department are Data Analytics, Big Data, Cloud Computing and Virtualization, Security, Compilers and Programming languages, Computer Architecture, Bioinformatics and Theoretical Computer Science. The department has several research labs and common laboratories with state of the art computing facilities, a department library with reference books and other research material. Constantly modernizing of facilities helps the department to adapt itself to the rapidly changing technological scenario.

The department has strong tie ups with the companies in the IT industry, operating from India as well as abroad. The CSE department faculty is involved in many R & D projects funded by the MNCs working in the IT sector. The department also offers consultancy services to different agencies working under the State and Central Governments and also to the companies working in various domains in the field of Computer Science.

About NIT Calicut

National Institute of Technology Calicut (NITC), is fully centrally funded by MHRD and is governed by the NIT Act 2007. Institute has ten departments, three schools and nine research centers. It offers ten UG, and thirty PG programmes along with the Ph.D programme in various fields of Science, Technology and Engineering. Faculties in the various Departments have active collaborations with universities and elite institutions within and outside India for research and have active consultancy for industries. For details see the website: www.nitc.ac.in

About GEC, Bharatpur

Government Engineering College (GEC) Bharatpur is an autonomous institute under Bharatpur Society, Rajasthan, India. GECC was established in the year 2007. The college has six departments namely Mechanical engineering, Civil Engineering, Electronics & Communication Engineering, Electrical Engineering, Computer Science & IT and Applied Science & Humanities. and for details see the website <http://www.ecbharatpur.ac.in>

About TEQIP III

Technical Education Quality Improvement Programme (TEQIP) was launched in December, 2002 by the Ministry of Human Resource Development, India with the World Bank assistance. The programme was conceived and designed as a long term project to be implemented in 10-12 years in 3 phases to support excellence and transformation in Technical Education in the country. Third phase of the programme namely TEQIP III was started in the year 2017 and will be ending in 2020. The main objective of TEQIP III is to improve the quality of Engineering Education in existing government institutions in the educationally backward states and also arrange for twinning them with other institutions like NITs and a few affiliating technical Universities(ATU).

About Calicut

Calicut is a major knowledge Hub of Kerala and is the hometown of institutions of national importance including NITC, IIMK, DOEACC, CWRDM etc. Calicut is connected by direct trains/road/air to all major cities in India. NITC is located about 22 kilometers north-east of Calicut City. Calicut, also known as Kozhikode, is known as the city of spices. Kozhikode beach, Kappad beach where Vasco De Gama landed first, Kadalundy bird sanctuary, Tusharagiri Waterfalls

Preamble

Today large volumes of digital data are being created in every second. Companies have realized useful information that can be mined from the data generated. The insights that are gained can produce values in business as in the case of targeted marketing, improvement of user experience etc. As increased information is being mined, it is important that the data that is used for the process is protected against unauthorized changes and unauthorized views. Usually Analytics is done in a third party site and it becomes all the more critical to ensure that security and privacy of the data is maintained.

So it becomes very important for the teaching and research community to be updated with the state of art techniques that are being used in Big Data Analytics and work to remove the research gaps identified. Thus in this era, where India is moving into a digital economy and many governmental and business decisions are based on analytics, a Faculty Development Program on “Security and Privacy in Big Data Analytics” becomes very relevant.

Topics to be covered

The training programme will briefly cover the following topics:

- State of the Art Big Data Analytic Techniques
- Security and Privacy Challenges in Big Data Analytics
- Mechanisms to Protect Data and Ensure Privacy during Analytics
- Big Data Provenance
- Data (Privacy and Protection) Act 2017
- Case Study and Research Problems

(Participants are encouraged to bring their Laptop for the hands-on training classes)

Resource Persons

Experts of NITC, IIT, IISc and other Invited Experts from Academic/ Research Institutions. There are speakers from IIT Madras, IIT Delhi and IIT Palakkad.

Eligibility

Faculty members from various AICTE approved Engineering Colleges/Institutions can apply.

Working professionals and practicing engineers from various Research Organizations and Industries, and Research scholars working in security and privacy area can also apply.

Maximum seats: 20

Registration Fee

- Industry/ Research Organizations: Rs. 5000+18% GST
- Academic institutions: Faculty* Rs. 2000+18% GST
- Research scholars: Rs. 2000+18% GST

This includes only registration materials. Boarding and lodging will be extra. For registration, fill the online registration form at <http://tiny.cc/hppxsy> and upload the scanned copy of the endorsement form. **Payment needs to be done only after confirmation of your selection.**

The registration fee has to be paid through online transfer. The bank details are given below for online transfer.

Acc.Name: Director NIT Calicut, Continuing education programme, Account No:37618269594 ; Branch: SBI NIT Calicut, IFSC code: SBIN0002207
Last Date for registration is June 5, 2018.

Travel Expenses

No TA/DA will be paid for any participant. Institutions are expected to provide the support.

Boarding & Lodging

All faculty and research scholars may be accommodated in the hostel /international hostel on payment basis if they request for it. Participants from industry /research organizations may be provided lodging in the Institute Guest house on payment basis, subject to availability

Charges : International hostel Rs. 450/Room
Ladies hostel Rs. 250/Room
Boys hostel Rs.250/Room
Guest house Rs. 350/Room
Breakfast, lunch and dinner Rs.250/day

Endorsement of the Head of the Institution/Department

Certified that Mr./ Ms./ Dr.

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is an employee of this institution and is hereby sponsored for the training programme on **Security and Privacy in Big Data Analytics** at NIT Calicut during 18th to 23rd June 2018. He/she will be permitted to attend the course, if selected.

Place:

Date:

Name & Signature of the
Sponsoring Authority
(*seal of the institution*)



**Scan the QR Code for
online registration and
upload the signed
endorsement form. Last
date for registration
June 5, 2018**

Co-ordinators

**Dr. Anu Mary Chacko
Dr. S D Madhu Kumar**

Department of Computer Science Engineering

National Institute of Technology Calicut

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Co-Coordinator

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