REGISTRATION FORM

5 Day TEQIP Sponsored Workshop on "Deep Learning for Big Data and Cyber Security Applications"

(July 01st, 2019 to July 05th, 2019)

Name of Participant----------

Dept :----------

Gender : ----------

Designation: ----------

Qualification : ----------

Organization: ----------

Mobile No. ----------

Email:----------

Demand Draft No. ----------

I agree to abide by the rules and the regulations governing the Workshop.

Place:
Date: ***Signature of the Participant***

Mr./Ms./Dr./_____ is a student/employee of our Institution and is permitted to attend the programme.

Signature of the Head of (applicant's) Institution and Seal

Place:
Date:

Accommodation: Limited number of room in NITK Guesthouses and Hostels available on First Come First Served basis. Cost of boarding and lodging shall be borne by the applicant. Please note that no TA/DA shall be paid for this event by NITK. Course participants may have to deposit complete amount expected for their stay with Guest House/Hostel on arrival.

Venue: **Dept. of Information Technology**
NITK Surathkal
Mangalore- 575025.

Address for Communication

Dr. Bhawana Rudra
Dr. Anand Kumar M
Department of Information Technology
National Institute of Technology, Karnataka
Surathkal, Mangalore – 575 025

E-mail: **dbcsa.it.nitk@gmail.com**

Contact: Ph. 0824 – 247 3560, 0824 - 2473118

Course Contents

- Cyber Security Practice in Banking Sector.
- Role of Block Chain in Cyber Security Applications.
- Big Data and Cyber Security.
- Role of Recommender system in Cyber Security.
- Cyber Security in Industry 4.0.
- Data collection methods for Cyber Security.
- Machine Learning and Deep Learning for Cyber Security Applications.

5 Day TEQIP Sponsored Workshop on "Deep Learning for Big Data and Cyber Security Applications"

(July 01st, 2019 to July 05th, 2019)

Coordinators
Dr. Bhawana Rudra
Dr. Anand Kumar M
Prof. G. Ram Mohana Reddy
Dept. of Information Technology, NITK

Organized By

Department of Information Technology
National Institute of Technology, Karnataka
Surathkal, Mangalore – 575 025

About NITK Surathkal

NITK Surathkal is a premier institution engaged in imparting quality technological education and a broad range of research, development and consultancy activities. NITK has carved a niche for itself among the best technical institutes in India and is consistently ranked among the top 10 technological institutes.

Department of Information Technology

Department of Information Technology was established in June 2000, The department offers undergraduate course B.Tech. in Information Technology, Post Graduate course M.Tech. in Information Technology, M.Tech. by (Research) and Doctoral Program (Ph.D) Current research activities of the department include Data Mining, Web services, Distributed Computing, Semantic Web Technology, Natural language Processing, Software Aging, Virtualization, Soft Computing, Wireless Sensor Networks, Computer Networks, Network and Cyber Security, Information Security, Internet of Things (IoT), Affective Computing, Big Data Analytics, Cloud/Edge/Fog Computing, Cloud Security, Databases, Healthcare Informatics, High Performance Computing, Information Retrieval, Social Multimedia/Social Network Analysis, Software Engineering, Blockchain Technologies, Future Internet Architecture, Mobile Software Engineering, Deep Learning Applications.

How to Reach NITK Surathkal

NITK is located in Surathkal on the scenic shores of the Arabian Sea, about 20KM north of the city of Mangalore and is well connected by Air, Rail and Road. The nearest domestic/international airport is situated at Bajpe (about 10KM from Mangalore) and the nearest railway station is Surathkal (3 KM). The NITK Campus is situated right on National Highway NH66 with very good bus connectivity from Mangalore, Udupi etc.

About the Program

Big Data has become important as many organizations have been collecting massive amounts of domain-specific data, which can contain useful information about problems such as national intelligence, Cyber Security, and fraud detection. Cyber attacks are continuing to increase at an alarming rate, especially with the ever-increasing nature of cyber connectivity. Hackers target a wide variety of protocols and communication systems along with data ranging from servers and end-user machines to wireless and mobile networks. Security measurements are to be considered based on history. The logs can be used to analyze the threats. Modern Cyber Security solutions are mostly driven by Big Data and tools using deep learning frameworks to process big data quickly and accordingly spot suspicious activity very effectively and efficiently.

The absence of active cyber defense and technically sound forensic methods may prevent administrators from making suitable decisions on time against threats like proving the identity of the guilty party, identifying the root vulnerability to prevent the future occurrence of a similar incident, and understanding the hackers' intention to attack.

Cyber Security along with Big Data Analytics is emerging as an important discipline of Computer Science and Information Technology towards developing a novel scientific approaches for collecting, processing, and analyzing the information retrieved from the systems affected by security incidents to generate conclusive descriptions.

Objective of the Program

This 5-Day workshop will cover the usage of Deep learning methods to analyze

1. The Cyber Security applications in Big Data.,
2. Security aspects in Banking Sector
3. Block Chain in Cyber Security.
4. Recommender System in SAAS based Authenticator

Hands-on experience on configuring and troubleshooting various attacks and resolve common issues which helps in preparing software engineers of today for securing the Cyberspace. This program will also deliver the knowledge and skills required for configuring and analyzing the attacks by hacker.

Course Deliverables: Upon completion, the successful participants will be able to detect and analyze security vulnerabilities in applications/software.

Resource Persons

Experts from Industry, Academia, R&D Organizations will deliver expert talks to make participants aware of various topics related to Cyber Security and Machine Learning, Banking Security Issues, Recommender System, Cyber Security in Industry 4.0, Block Chain Security and Research Challenges.

Eligibility

The programme is open to Faculty and Students (B.Tech, M.Tech and Ph.D) of AICTE/UGC approved Engineering and Technology Colleges. Number of participants will be limited to 40. Completed applications should reach the Coordinators on or before 18th June 2019.

Registration Fee (Inclusive GST)

Amount	GST	Participants
1000	+18%	Students/ Research Scholars
1500	+18%	Faculty Members
3000	+18%	Industry Persons

Demand Draft should be drawn in favor of "Director NITK Surathkal"

E-mail the scanned copies of the filled and duly signed application form along with DD to **dbcsa.it.nitk@gmail.com** "

Important Dates

Last Date for Receipt of Applications:

18th June 2019

Intimation of Selection by email:

23rd June 2019