

Registration Form

5 Days Short-Term Program on

“Data Mining Techniques and Cyber Security”

1. Name of the Participant :
2. Designation :
3. Department :
4. Organisation :
5. Postal Address :
6. Tele. / Mobile :
7. Email ID :
8. Registration Fee Details:

Declaration

The above information is true to the best of my knowledge and belief. I shall attend the 5 days short-term program for the entire duration.

Place : _____ Signature of the
Date : _____ Participant

The applicant is hereby sponsored to attend the above short-term program.

Signature with the seal of
Head of Organization / Department

About NITK Surathkal

NITK Surathkal is a premier Institute engaged in imparting quality technological education and providing support to research and development activities. NITK is recognized as an Institute of National Importance by an act of Parliament. NITK has carved a niche for itself among the best technical institutes in India. NITK offers 9 UG, 26 PG programs and Ph.D. programs.

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, Webservices, Distributed Computing, Semantic Web, Databases, Software Aging, Virtualization, Soft Computing, Wireless Sensor Networks, Computer Networks, Network Security. Information Security, Internet of Things (IoT).

How to Reach NITK Surathkal

NITK is located at Surathkal, 20KMs north of the city of Mangalore and is well connected by Air, Rail and Road. The nearest Airport is situated at Bajpe (about 12KMs from Mangalore) and the nearest Railway station is Surathkal (3KMs). The NITK campus is situated right on National Highway 66 and there are frequent buses from Mangalore.

5 Days Short-Term Program

on

“Data Mining Techniques and Cyber Security”

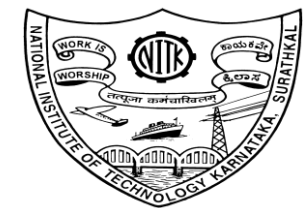
4th – 8th September 2018

Venue: Information Technology Department
NITK, Surathkal - 575025



Coordinators

Dr. Jaidhar CD
Dr. Nagamma Patil



Organized by

Department of Information Technology
National Institute of Technology Karnataka
Surathkal - 575025

Registration

- **Registration Fee Rs. 2950/-** (2500 Registration fee + Rs. 450 GST (18%)) for this Short-Term program should be paid to

Account Name : Director, NITK
Account Number : 10175365060
Bank : State Bank of India
IFSC Code : SBIN0002273
MICR Code : 575002013
Branch Code : 2273

- Interested participants are requested to send the signed registration form as per the format given and duly forwarded by the competent authority of the applicant with Registration Fee paid details to short-term program coordinator on or before 31st August 2018 either through Email or by post.
- **No Accommodation and No TA/DA** for participants.
- Working Lunch/Refreshments would be provided to the participants at short-term program venue only from 4th – 8th September 2018.

Eligibility and Selection Criteria

This Short-Term program is open to B.Tech./M.Tech. students / Ph.D. research scholars who are studying in Computer Science & Engineering / Information Technology discipline. Faculties / Scientists / Officers working in Computer Science & Engineering or Information Technology discipline can also attend this program. **Number of participants limited to 30.** Selection of the participants based on first come first served. Selected applicants will be informed through Email.

About the Short-Term Program

The past few years have been characterized by rapid changes in technology and the introduction of corporate and retail banking services through the Internet. The unprecedented speed with which new technologies are being adopted, the ubiquitous and global nature of the electronics networks, the integration of E-banking platform with legacy systems and the increasing dependence of bank on third party information service provides, all dramatically amplify the magnitude of risks to which banks are exposed. Security control needs special attention because of open nature of the Internet and the pace of technological change.

Data Mining techniques are widely used in various domains including Cyber Security and Network Security. This short-term program intended to discuss Data Mining techniques and Cyber Security associated topics.

Objectives of the Short-Term Program

The aim of this 5 days short-term program is to bring together B.Tech. students/M.Tech. students /Ph.D. research scholars/Faculties/Officers those who want to know about Data Mining Techniques and Cyber Security. This five days short-term program will be a platform for enriching flavor on Data Mining and Cyber Security related concepts. It would enable the participants to gain a comprehensive understanding of various Data Mining techniques as well as Cyber Security related issues.

Short-Term Program Content

- Introduction to Data Mining. **Classification Algorithms:** Decision Tree, Naive Bayes classifier, Neural Networks, K-nearest neighbor Classifier, SVM, Regression Models, Ensemble Classifier. **Clustering Algorithms:** K-means, Hierarchical Clustering, Fuzzy-c-means, Density Based Clustering. **Association Analysis:** Frequent Itemset Mining, Frequent Closed Itemset Mining, Frequent Closed Itemset Mining from High Dimensional Data.
- Introduction to attacks on IP Layer, TCP Layer and Application Layer. Port Scanning Techniques using Nmap Tool. Packet sniffing using Wireshark Tool. Firewall and Access Control List. Intrusion Detection and Prevention Techniques.

Venue of the 5 Days Short-Term Program

Department of Information Technology
National Institute of Technology Karnataka
Surathakal, Srinivasa Nagar (Post), Mangalore
Karnataka (State).

Address for Correspondence

Dr. Jaidhar CD / Dr. Nagamma Patil
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National Institute of Technology Karnataka
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