

ABOUT IIT ROORKEE

Indian Institute of Technology - Roorkee is among the foremost of institutes of "national importance" (an Act by Parliament of India) in higher technological education and in engineering, basic and applied research. The Institute ranks amongst the best technological institutions in the world and has contributed to all sectors of technological development. The Institute offers Bachelor's Degree courses in 10 disciplines of Engineering and Architecture and Postgraduate's Degree in 55 disciplines of Engineering, Applied Science, Architecture and Planning apart from doctoral and postdoctoral works.

ABOUT THE DEPARTMENT

In view of the increasing importance of the Computer Science discipline, undergraduate and postgraduate programmes in Computer Science and Technology were started in the year 1982 in Electronics and Computer Engineering department. In January 2013, a separate 'Computer Science and Engineering' department was established. The department offers B.Tech, M.Tech. and PhD programs. It has active research groups in the broad areas of Computer Science and Engineering and Information Technology.

ABOUT THE E&ICT ACADEMY

The Academy conducts short courses/FDPs in emerging EICT areas benefiting faculty, working professionals and Govt. employees. The programs focus on conducting industry oriented courses filling the important gap between industries demand and institution's capability to provide proficient talent pool. The trained beneficiaries are expected to have cascading effect, transforming the competencies and standards in the parent institutes. E&ICT courses are recognized by AICTE at par with QIP for recognitions/credits.

ABOUT THE COURSE

Security plays a vital role in protecting the networks and applications from attacks that tend to several threats like monetary losses, identity theft, and data loss. This course will focus on discussing several recent security challenges in various fields like Cloud, Mobile, IoT and Big Data, Deep Learning apart from covering prelims. It will guide the participants for possible research directions in security area.

COURSE CONTENTS

- IDS, Phishing, Securing online transactions and E-mail
- Block chaining
- Key Management in Wireless Sensor Networks
- Mobile Security, Cloud Security and Big Data
- Machine Learning for Security Analytics
- Modern Cryptography
- Secure Tasking over Untrusted Outsourced Servers
- ANN, Deep Learning for security analysis

ELIGIBILITY

Postgraduates, Research Scholars, Faculty Members, Industry Professionals.

IMPORTANT DATES

Online registration closes on 02.01.2020. Eligible candidates will be notified within a Week (FCFS basis) by e-mail.

Course seats are very limited.

REGISTRATION

Course Fee and Accommodation

Participants' Category	Fee (Rs)
Faculty Members	1000/-
Industry Persons	3500/-

No TA/DA will be provided. Students need to produce their Institute ID. Limited accommodation is available on *payment basis*. Check the course website for more details.

CONTACT PERSON

Dr. Rajdeep Niyogi **Dr. Partha Pratim Roy**

Course Coordinator,

Associate Professor

Dept. of CSE

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Course Coordinator,

Assistant Professor

Dept. of CSE

RESOURCE PERSONS (SPEAKERS)

- Dr. Dharmendra Singh, ECE Dept, IITR
- Dr. Manoj Misra, CSE Dept, IITR
- Dr. Sugata Gangopadhyay, CSE Dept, IITR
- Dr. Balasubramanian, CSE Dept, IITR
- Dr. Durga Toshniwal, CSE Dept, IITR
- Dr. P. Sateesh Kumar, CSE Dept, IITR
- Dr. Partha Pratim Roy, CSE Dept, IITR
- Dr. Rajdeep Niyogi, CSE Dept, IITR

One Week Short Term Course/ Faculty Development Program

on

Network Security and AI

January 14-18, 2020



Organized by

Electronics & ICT Academy (E&ICT)
Indian Institute of Technology Roorkee

&

Information Security Education and Awareness
Project (ISEA), Phase-II



Course Coordinators

Dr. Dharmendra Singh, Head CSE, IITR
Dr. Sanjeev Manhas, ECE Dept, IITR
Dr. Rajdeep Niyogi, CSE Dept, IITR
Dr. Partha Pratim Roy, CSE Dept, IITR

Venue

E&ICT Academy (N-321),
E&CE Department,
Indian Institute of Technology Roorkee