

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 ISEA PROJECT

Keeping in view the pervasive nature and impact of cyber security on all walks of life - economic and social, Government of India has identified Information Security as one of the major thrust area for launching various development programs. Information Security Education and Awareness project aims to generate right kind of qualified and well trained human resources, who could take up Research & Development (R&D), develop indigenous solutions / software, secure and maintain various systems including critical infrastructure.

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 and IoT apart from covering

prelims on cryptography and number theory. It will guide the participants for possible research directions in security area.

COURSE CONTENTS

- Design and analysis of block ciphers
- Cryptographic hash functions and Message Authentication Codes.
- Authentication & Phishing
- Mobile Security
- Cloud Security
- IoT Security

ELIGIBILITY

Undergraduates, Postgraduates, Research Scholars, Faculty Members, Industry Professionals.

IMPORTANT DATES

Online registration closes on 05.10.2020. Eligible candidates will be notified within a week (FCFS basis) by e-mail.

REGISTRATION

Course Fee

Participants' Category	Fee (Rs)
Faculty Members (from PI of ISEA project)	-
Faculty / Research Scholars/Govt. employees	250/-
Industry Persons/others	500/-

CONTACT PERSON

EICT Manager

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RESOURCE PERSONS (SPEAKERS)

- Prof. Dharmendra Singh
- Prof. Manoj Misra, CSE, IITR
- Prof. Sugata Gangopadhyay, CSE, IITR
- Prof. Sateesh Kumar Peddoju, CSE, IITR

Registration Link

<https://forms.gle/rV9h49hCaFcwYLJ9A>

Online Short Course/ FDP On Cyber Security and Cryptography

October 07-11, 2020



Organized by

Electronics & ICT Academy (E&ICT)
Indian Institute of Technology Roorkee
&
**Information Security Education and
Awareness Project (ISEA), Phase-II**



Course Coordinators

Prof. Manoj Misra, CSE, IITR
Prof. Sateesh Kumar Peddoju, CSE, IITR
Prof. Sugata Gangopadhyay, CSE, IITR
Prof. Sanjeev Manhas, ECE, IITR

Venue

Sessions will be delivered through online
Platform