

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. **Roorkee** is situated at the foothill of the Himalayas, in Haridwar district (Uttarakhand). It is the gateway to the pilgrim centres of Hardwar, Rishikesh, Badrinath and Kedarnath, and tourist attractions of Dehradun and Mussoorie. Roorkee is well connected to Delhi by rail and road.

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 Ph.D programs. It has active research groups in the broad areas of Computer Science and Engineering and Information Technology. Besides, the Department offers R&D and consultancy services too.

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, 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
- **Blockchaining**
- **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**
- SUGGESTING RESEARCH DIRECTIONS
- **HANDS-ON from INDUSTRY Person**

ELIGIBILITY

Undergraduates, postgraduates, researchers or scholars, faculty members from academic institutes, Industry professionals & consultants.

IMPORTANT DATES

Online registration closes on 15.12.2017. Eligible candidates will be notified within a Week (FCFS basis) by e-mail.

Course seats are very limited.

REGISTRATION

Registration Link

<http://faculty.iitr.ac.in/~drpskfec/events/netsec/2018/forms.html>

Course Fee and Accommodation

Participants' Category	Fee (Rs)
UG and PG Students	1000
Faculty and Research Scholar	1500
Industry Persons	2500
IIT Roorkee UG/PG Students	500
IIT Roorkee Faculty/Ph.D students/others	750

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. Sateesh Kumar Peddoju

Course Coordinator, NetSec-2018

Assistant Professor

Dept. of CSE

IIT Roorkee, Roorkee, UK, India – 247667

Phone: +91-1332-286473 (HPC Lab)

Email: netsec2016@gmail.com

RESOURCE PERSONS (SPEAKERS)

Faculty of IIT Roorkee, Eminent Persons drawn from Industry and/or Experts from other popular Institutions.



Prof. Dharma P. Agrawal

OBR Distinguished Professor
University of Cincinnati, USA
<http://eecs.ceas.uc.edu/~dpa/>



Prof. Pradeep K. Atrey

Associate Professor & Director UG prog.
University At Albany, SUNY, USA
<http://www.cs.albany.edu/~patrey/>



Mr. Abhinav Aggarwal

Research Student
University of New Mexico, USA
<https://abhiag6891.com/>



Dr. Sampath K Katherasala

Tata Consultancy Services (TCS)
Hyderabad

Short Term Course on RECENT TRENDS IN NETWORK SECURITY

(NetSec-2018)

8 - 12, JANUARY 2018

<http://faculty.iitr.ac.in/~drpskfec/events/netsec/2018>



Organized for
Information Security Education and Awareness Project
(ISEA), Phase-II, IIT Roorkee

&
Electronics & ICT Academy (EICT), IIT Roorkee



Course Coordinators

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Prof. Manoj Misra

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