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- ❖ Mr. Binayak Parashar
- ❖ Mr. Hridayesh Gupta

Contact Details

- ❖ Mr. Deepak Kanojia - 8860606626
- ❖ Ms. Arti Ranjan - 8004038803
- ❖ Mr. Binayak Parashar - 9654671328
- ❖ Ms. Divya Rastogi - 9873086657

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- ❖ Prof. (Dr.) Ranvijay, MNNIT Allahabad.
- ❖ Prof. (Dr.) Shashank Srivastava, MNNIT, Allahabad.

Chief Guest

- ❖ Ms. Tulika Pandey, Director, Ministry of Electronics & Information Technology, Govt. of India.

Speakers / Experts

- ❖ Prof (Dr.) Yamuna Shukla, IIT Jammu
- ❖ Prof (Dr.) Lalit Mohan Goyal, J.C. Bose University of Science & Technology, YMCA Faridabad.
- ❖ Prof (Dr.) Ravindra Bhatt, JUIT Solan
- ❖ Prof (Dr.) Sunil Kr. Singh, Chandigarh College of Engg & Tech, Chandigarh.
- ❖ Dr. Mayank, Bennett University, Gr. Noida
- ❖ Mr. Anuj Agarwal, Founder & Chairman of CRCRCL

Convener

- ❖ Prof. (Dr.) Manoj Singhal (HoD, IT)

Faculty Development Program on Cryptography based Security & Applications

(30th April– 4th May, 2019)

Approved & Funded by
Dr. A.P.J .AKTU, Lucknow

(Under TEQIP-III)



Organized By
Department of
Information Technology



Greater Noida Institute of Technology

(Affiliated to Dr. A.P.J. AKTU, Lucknow)
Plot No. 7, KP-II, Greater Noida,
G.B. Nagar – 201306 (U.P.)
www.gniotgroup.edu.in

About GNIOT



Established in the year 2001, GNIOT group of institutions has become one of the leading institutions for Management and Engineering programs worldwide. The founders are some of the best minds from the corporate and academic worlds. In their perspective, the changing business landscape requires young leaders to have understanding of developing economies and global practices.

Assets of GNIOT:

- ❖ Total Students/Seats: 5232
- ❖ Programs: B.Tech./M.Tech./MCA/MBA
- ❖ Branches/Streams: CS/IT/EC/EE/ME/CE/AE
- ❖ Other Institutions in Group:
GNIT-CP/GNIT-CM/GNIT-MBA/GNIT(IP)

About the Department

The **Department of Information Technology at GNIOT, Greater Noida** was established in the year **2001** with a vision to develop competent IT Professionals catering to the needs of Industry and Society in a global perspective. Information Technology being the flagship branch of engineering takes focus in Scientific Research, Scientific Programming, Application Programming, and Software Engineering. The Department has dedicated faculty members who also work as mentors to the equally diligent and hardworking students. The department provides well equipped and well connected state-of-the-art laboratories in the areas of Web Engineering, Computer Networking, Information Security etc.

About the FDP

Cryptography is a key technology for achieving Information Security in Communications, Computer Systems, Electronic Commerce and more generally in the emerging Information Society. The aim of the FDP is to provide the understanding of Cryptography & its role in Network and system security. It will also provide vast exposure of various tools and techniques of the security domain to its participants.

Registration Information

Faculty and Research Scholars from engineering colleges who wish to improve their research horizons in the field of Network and Information Security can attend this workshop.

Registration Fee: NIL

General Information

- ❖ The number of participants is limited to 30.
- ❖ Course material, software and tools will be made available.
- ❖ Refreshment & Lunch will be provided.
- ❖ Conveyance has to be arranged by the participants.
- ❖ Accommodation can be provided at campus on request.
- ❖ Participants can collect their registration kit on the first day from the registration counter.
- ❖ **Nomination Deadline: 27 April'19.**

Daywise Schedule

- ❖ **Day – 1**
 - ✚ Inaugural Ceremony.
 - ✚ Keynote address.
 - ✚ Application of Artificial Intelligence and Machine Learning techniques for Information and Data Security.

- ❖ **Day – 2**

Cryptography based Applications & Privacy

- ✚ Distributed Association Rule Mining.
- ✚ Use of Cryptography in Association Rule Mining.
- ✚ Privacy Preserving Association Rule Mining.
- ✚ Hashing & Digital Rights Management.

❖ Day – 3

Linux Security

- ✚ Protection of System Files against unauthorized modification.
- ✚ Extensive monitoring and alerting functions about infected content.
- ✚ Easy deployment and management with Policy Manager or a web user interface, even for multiple servers.
- ✚ Firewall management support to guard against unsafe traffic within and outside the network.

❖ Day – 4

Network Security

- ✚ Zero Day Attacks and its Detection with few future directions for research.
- ✚ Stealth based DNS Spoofing with few future directions for research.
- ✚ Stealth based DHCP Poisoning with few future directions for research.
- ✚ Network Traffic Classification with few future directions for research.
- ✚ VoIP spams and its detection with few future directions for research.
- ✚ Latest Malware Attacks launched in the world and its detection.

❖ Day – 5

Cyber Investigation

- ✚ Removal of passwords by Cryptography based solutions in Corporate and Government.
- ✚ Information Technology Law regarding Digital Signatures.