One Week Workshop

On
Information Security: Research Issues and Challenges

March 17 – 21, 2016

Sponsored by: ISEA – Phase II

Organized by

Department of Computer Science & Engineering
Motilal Nehru National Institute of Technology Allahabad
Allahabad-211004, Uttar Pradesh, India

Course Coordinators :
Prof. R.S. Yadav, PI, ISEA-II Project
Dr. Anil Kumar Singh, Co-PI, ISEA-II Project

ABOUT MNNIT

Motilal Nehru National Institute of Technology (MNNIT) Allahabad is one of the premier National Institute of Technology (NIT) in India. It is committed to achieve quality and excellence in academic pursuits. Established in 1961, as a Regional Engineering College, a joint enterprise of Government of India (GOI) and Government of Uttar Pradesh, the institute was transformed into NIT on June 26, 2002. With the enactment of NIT Act-2007 (29 to 2007), the Institute has been granted the status of Institution of national importance w.e.f. August 15, 2007.

The Institute now offers various undergraduate and postgraduate courses such as B.Tech, M.Tech, MCA, MBA, M.Sc., M.S.W and Ph.D. degree. It has been recognized by GOI as one of the Quality Improvement Programme (QIP) centres for the M.Tech. and Ph.D. Degrees. Also, it is a lead Institution under World Bank funded GOI Project on Technical Education Quality Improvement Programme (TEQIP) (2002-2007).

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

For the first time in India undergraduate course in Computer Science and Engineering was offered in 1977 under Electrical Engineering Department with a modest strength of 10 students.

The Department of Computer Science & Engineering offers courses leading to a Bachelor of Technology in Computer Science & Engineering, and Information Technology. It also offers a Master of Technology in Computer Science & Engineering, Master of Technology in Software Engineering, Master of Technology in Information Security, and Master of Computer Application (M.C.A.). Further, the department also has Ph.D. program.

ALLAHABAD

The city of Allahabad is among the largest cities of Uttar Pradesh. It is situated at the confluence of three rivers: Ganga, Yamuna and the mythological Saraswati. The sacred meeting point is known as Sangam. The city better known as PRAYAG has many governmental Institutions which include MNNIT Allahabad, High Court of UP, prestigious Allahabad University & many tourist places like Sangam, Anand Bhawan, Narayani Ashram, Kushroo Bagh and Company Bagh etc. MNNIT Allahabad is one of the premier institutes of the city offering Quality Technical Education.

COMMITTEES

ORGANIZING COMMITTEE

Patron
Prof. P. Chakrabarti, *Director,* M.N.N.I.T. Allahabad
Chairman
Head, CSED, Department of Computer Science and Engineering
Coordinators :
Prof. R.S. Yadav, CSED
Dr. A. K. Singh, CSED

COORDINATION COMMITTEE

Dr. Ranvijay, CSED, **Co-cordinator**
Mr. Dinesh Singh, Member
Mr. Divya Kumar, Member
Dr. Shashank Srivastava, Member
Dr. Pragya Dwivedi, Member
Ms. Rajitha B., Member
Ms. Shashwati Banerjea, Member

ADVISORY COMMITTEE

Prof. M. M. Gore, Department of C.S.E., M.N.N.I.T, Allahabad
Prof. Suneeta Agarwal, Department of C.S.E., M.N.N.I.T, Allahabad
Prof. N. Tyagi, Department of C.S.E., M.N.N.I.T, Allahabad
Prof Rajeev Tripathi, Department of ECE, MNNIT, Allahabad
Dr. D. S. Kushwaha, Department of C.S.E., M.N.N.I.T, Allahabad
Dr. Mayank Pandey, Department of C.S.E., M.N.N.I.T, Allahabad
Dr. K. K. Mishra, Department of C.S.E., M.N.N.I.T, Allahabad
Mr. Manoj Wariya, Department of C.S.E., M.N.N.I.T, Allahabad
Mr. D. K. Yadav, Department of C.S.E., M.N.N.I.T, Allahabad
Mr. Anoj Kumar, Department of C.S.E., M.N.N.I.T, Allahabad
Prof V. K. Shrivastav, Department of ECE, MNNIT, Allahabad
Prof R. K. Singh, Department of Electrical Engineering, MNNIT Allahabad

ADDRESS FOR COMMUNICATION

Complete registration form, accompanied by the demand draft should reach the course coordinator on or before **01-03-2016**-. The contact details are:

Dr. A.K.Singh
Department of Computer Science and Engineering
Motilal Nehru National Institute of Technology Allahabad
Allahabad-211004
Phone: 9452613200
E-mail:ak@mnnit.ac.in

COURSE INTRODUCTION

As connected devices permeate our lives, it is crucial that the computer infrastructure we rely on so heavily be secure and reliable. Two distinct

trends promise to make information security even more important in the future. First, computers are finding their way into new and exciting applications: from smart building controls, to autonomous robots, to medical devices, computing imparts both agility and unpredictability. Second, nearly every computer is connected in some way to another: from short-range wireless protocols, to increasingly ubiquitous cellular data and high-speed broadband, it is faster than ever to share data or compromise personal privacy. At the heart of whether the benefits that drive these trends will outweigh their inherent risks is whether we can engineer these systems to be secure and reliable. This course will explore the security benefits and risks of these trends, how they can be addressed, and how multidisciplinary problems can bring together researchers from disparate fields to meet the challenges of achieving security in a connected world.

OBJECTIVE OF THE COURSE

The objective of the course is to bring awareness in the student/teaching fraternity, about the importance and means of information security as well as empower them to safeguard the interest of the nation against cyber-crime by bringing together eminent researchers, educators, engineers and practitioners in the field under one roof.

TENTATIVE TOPICS TO BE COVERED

- **Intrusion Detection and Prevention Techniques**
- **Phishing, Securing Online Transactions and E-mail**
- **Mobile Security**
- **Cryptography**
- **Network Security**
- **Security in IOT**
- **Cyber crime and Digital Forensics**
- **Web, E-commerce, M-commerce and E-mail security**
- **Security in Social Media**

- **Cloud and related Securities**

WORKSHOP IMPACT - EXPECTED OUTCOME

Enhancing the curriculum of information security and computer forensics of present academia by introducing innovative experiments and exposing them to the research challenges for their possible pursue. The course is designed to provide in depth knowledge and training on the modern information security and forensic tools. Evaluation, practice and discussion sessions are evenly distributed to ensure that the taught idea is understood

WHO SHOULD ATTEND

The primary audience will include students enrolled in B.Tech and M.Tech courses who are interested in Information Security, Network Security, Cyber Security as well as conducting research related to the areas of information security, forensics, Cyber-crime and law. Other genre of audience includes PhD scholars, Faculties and Industry Personnel interested in the same. This workshop will be of value to students, researchers, faculty as well as Industry Executive.

RESOURCE PERSON

From Various IITs and NITs, IT Industry and other eminent institutions.

REGISTRATION

To register for this course the applicants will have to pay fees in advance as per the following details

Category	Fee
Industry Personnel	Rs. 1,500/-
Faculty	Rs. 1,000/-
Research Scholars	Rs. 1,000/-
Students(B.Tech, M.Tech)	Rs. 750/-

The registration fees should be sent in the form of a Demand Draft in favour of "**WISRIC-2016**", **A/C No: 718400301000188** payable at **Allahabad**. Limited accommodation may be provided on first come first serve basis to the participants, based on the availability of rooms in the institute EDC, Hostels and other available places (**Female Participants will be given preference**). The participants have to bear their travelling and lodging expenses. Also, you are requested to send a proof of your identity and designation for claiming the category.

Important Dates:

Activities	Date
Receipt of application form along with fee details.	**March 05, 2016**
Selection notification	**March 10, 2016**
Workshop dates	**March 17-21, 2016**

Receipt of Registration form along-with Fee details on 05-03-2016

Selection Notification on 10-03-2016

Department of Computer Science and Engineering,
Motilal Nehru National Institute of Technology Allahabad,
Allahabad-211004

REGISTRATION FORM

One Week Workshop

On

Information Security : Research Issues and Challenges
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Sponsored by: ISEA – II Phase

Name (in Block Letters) _____

_____

Date of Birth_____**Sex:**Male/Female

HighestQualification:_____

Organization:_____

AICTE Approved Yes/No

Designation(Faculty/Research

Scholar/Student/Industry Personnel)

_____

Correspondence Address:

_____

_____

_____**City:**_____**Pincode**:_____**Phon

e** _____

E-mail_____

Accommodation needed Yes/No :

(Accommodation would be provided on payment on

first-come first-serve basis)

PAYMENT DETAILS:

Draft No. _____ **Date:-**_____

**Issuing Bank and Branch (with

code)**_____

Amount:_____ **Drawn on**: _____

(In favour of '**------**'payable at '**Allahabad**')

(Signature of Applicant)