>> Background to the project

Over 5 years ago, we started conducting ISTE workshops for empowering teachers of engineering colleges. We first scaled up to engage 1,000 teachers at a time, in subject specific training workshops of two week duration. In 2013 we scaled this program further, to train up to 10,000 teachers at a time (T10KT), using 342 established remote centers across India. IIT Kharagpur is our partner Institution. Together, we have a mandate through a funded project from the National Mission on Education using ICT (NME-ICT) of MHRD, to train 1,50,000 teachers in 15 such workshops.

Since December 2009, we have conducted several two-week ISTE workshops on various engineering subjects. We have reached out to more than 65,000 teachers and helped them to enhance their teaching skills in these subjects.

In order to run these workshops at selected remote centers, we invite expert faculty from various remote centers to a One Week Coordinators' training workshop which is held in IIT Bombay, typically two months before the main workshop. These faculty members then act as Workshop Coordinators during the main training workshop to be conducted later for 10,000 teachers, during which, the Coordinators supervise the conduct of tutorials and Labs at their Centers. They liaise between the participants at their Remote Centers and IIT Bombay, from where the interactive lectures are transmitted live. All the lectures and tutorial sessions are recorded. The final edited audio-visual content, along with other course material, are to be released in Open Source. The content can be freely used later by all teachers, students and other learners.

Given the success of such workshops, we now announce a two-week ISTE workshop on Cyber Security, to be held in July, 2014.

>> Teaching Faculty

Prof. Bernard L. Menezes,
Department of Computer Science and Engineering, IIT Bombay.
http://www.cse.iitb.ac.in/~bernard/

Prof. G. Sivakumar,
Department of Computer Science and Engineering, IIT Bombay.
http://www.cse.iitb.ac.in/~siva/

>> Duration and Venue

The duration of the workshop is 2 weeks (10 days).
It commences on Thursday, 10th July, 2014 at 9:30 hrs and ends at 18:00 hrs on Sunday, 20th July with a day's break on Sunday, 13th July, 2014. Additional contributions from the participants are required to be made within the following two weeks.

The details and enrolment link is available here:
http://www.it.iitb.ac.in/nmeict/

The above link contains the list of all 223 remote centers.

>> Who Should Attend

Teachers, who wish to participate in this workshop, should specifically note that this is NOT a workshop to learn Cyber Security. Applicants should already have had some exposure to this subject. For example, teachers who have taught Network Security or System Security or Cryptography or a related course are eligible to enroll for this workshop.

This workshop is only for Faculty. Students are not entitled to attend the course.

>> Note

Please note that this workshop is conducted by the e-Outreach project of IIT Bombay, under the National Mission on Education through ICT. Live recording of the course and other created contents will be released under Open Source

through a portal. The recorded CD/DVD of the course lectures will be available for distribution at cost, to any individual/ institution. All participants are required to sign an authorization for such release of contents contributed by them during and after the workshop. Recognition and citation will naturally be made for all contributors.

>> How to Apply

Those wishing to attend this course should register online at http://www.it.iitb.ac.in/nmeict/home.do

Enrollment will be strictly online, and no other mode of application will be entertained.

The online form contains a list of remote centers. From this list, please select a center close to your institute, where you wish to attend the workshop. The last date for enrollment and for submission of permission letter is **30th June, 2014.** A list of selected participants will be put up on this website on **2nd July, 2014.** The selected participants will also be informed by an automated email.

LAST DATE FOR ONLINE ENROLLMENT
30th June, 2014

Mandatory requirement:
It is mandatory that while registering for the workshop, the participants should submit a scanned copy of a letter from the principal/Head of the Institute mentioning in our pre-format letter. Registration without this letter will not be confirmed.

>> Course Fee

Since the workshop is partly funded by the National Mission on Education through ICT (MHRD, Government of India), there is no course fee for participation.

>> Accommodation & other support

Remote centers are being funded to provide tea/lunch on each day of the workshop, and for accommodation, wherever available*, for a limited number of outstation participants. **Travel reimbursement upto Rs. 1000/- will be paid only to the outstation participants, if the distance travelled from their Institute to the Remote Center is more than 100 kms.**
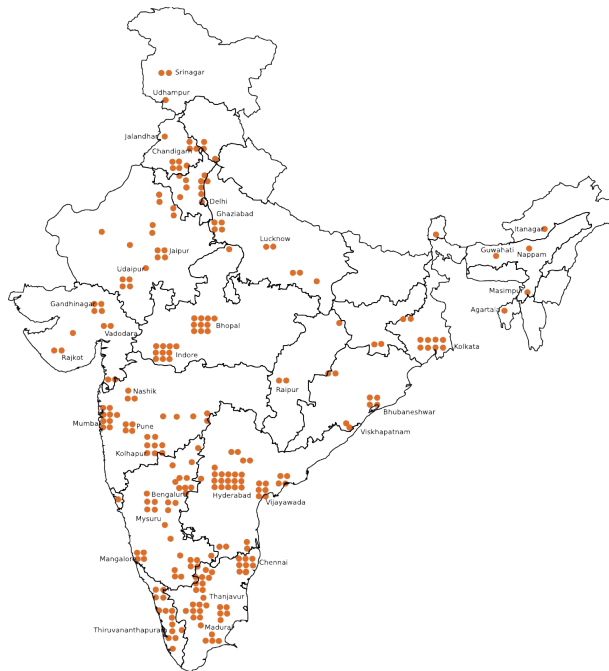*Accommodation is not guaranteed.

>> Course Content

The workshop will provide training to participants on teaching pedagogy to make extensive use of technology and will cover teaching of the following topics:

- Secret Key Cryptography
- Public Key Cryptography
- Applications of the crypto hash
- Key Management and PKI
- Network Security
- DDoS Attacks
- Authentication Protocols
- Transport Layer Security (SSL/TLS)
- Access Control and Firewalls
- Software security
- Worms, viruses, bots, etc.
- Malware protection
- Web application security
- Browser security
- Intrusion detection and prevention
- Security Tools – Wireshark, Snort, Metasploit, etc.

>> Remote Centers

We have remote centers in the following states:
Andhra Pradesh, Chhattisgarh, Gujarat, Goa, Haryana, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Pondicherry, Punjab, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, Uttaranchal, West Bengal

>> Address for Communication

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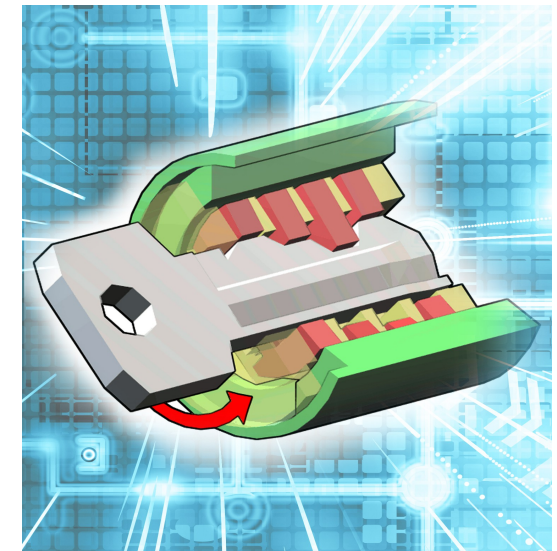

TWO - WEEK ISTE WORKSHOP
on
Cyber Security
Under the
National Mission on Education through ICT
(MHRD, Govt. of India)

10th July – 20th July 2014

Conducted by IIT Bombay

>> Course Coordinators <<
Prof. Bernard L. Menezes
Prof. G. Sivakumar
Dept. of Computer Science & Engineering

>> Project Coordinator <<
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