to train 1,50,000 teachers in 15 such workshops.

teachers and helped them to enhance their teaching main face to face portion of the workshop. skills in these subjects.

centers, we invite expert faculty from various remote T10KT workshops. centers to a five-day Coordinators' training workshop which is held in IIT Bombay, typically two months before the main workshop. These faculty members then Two-Week Coordinators' Workshop act as Workshop Coordinators during the main training workshop to be conducted later for 10,000 teachers, This announcement is for the Coordinators' during which, the Coordinators supervise the conduct of Workshop, to support the above. The duration of this tutorials and Labs at their Centers. They liaise between workshop will be two weeks. One week equivalent of the participants at their Remote Centers and IIT full-time work is required to be done over 5 weeks of Bombay, from where the interactive lectures are calendar time, from 16 March to 19 April, prior to one transmitted live. All the lectures and tutorial sessions week of face to face interaction at IIT Bombay from 21 are recorded. The final edited audio-visual content, to 26 April 2014. This workshop will provide a along with other course material, are to be released in complete orientation to the prospective Workshop Open Source. The content can be freely used later by Coordinators, on the methodology of MOOCs and all teachers, students and other learners.

(MOOCs) to global learners from July 2014, in workshop, funding and other support provided by the partnership with edX. To help enhance the quality of project, etc. engineering education multi-fold in India, IIT Bombay plans to offer a blended MOOCs model to students of Engineering Colleges in India. A paper on the proposed model is available at

http://www.it.iitb.ac.in/nmeict/pdfs/MOOCs.pdf

Introduction to the Workshops under T10KT project To train teachers for adopting the use of MOOCs in The content for the computer programming subject, to general, and to empower them to use the blended be covered by the blended MOOC later are: Over 5 years ago, we started conducting ISTE model in particular, it has been decided to run some of workshops for empowering teachers of engineering the T10KT workshops, partially using the MOOCs colleges. We first scaled up to engage 1,000 teachers approach. The first workshop on these lines will be at a time, in subject specific training workshops of two conducted for the subject 'Computer Programming'. week duration. In 2013 we scaled this program further, This will be a four week workshop, and will be to train up to 10,000 teachers at a time (T10KT), using conducted for over 10,000 teachers, in the months of 337 established remote centers across India. IIT May/June 2014. The participating teachers will Kharagpur is our partner Institution. Together, we have complete the equivalent of two week full-time work a mandate through a funded project from the National online, spread over 6 physical weeks. They will then Mission on Education using ICT (NME-ICT) of MHRD, assemble at the selected RCs (Remote Centers), for a week of face to face interaction, discussions, and tutorial sessions, and will then complete a team Since December 2009, we have conducted several assignment. This team assignment will be equivalent of two-week ISTE workshops on various engineering one week full-time work, and will have to be completed subjects. We have reached out to more than 55,000 online, within 3 physical weeks after completion of the

"Computer Programming" is the subject chosen for In order to run these workshops at selected remote the main workshop, to be run under this new model of

Blended MOOCs. It will also provide training on other technical and logistics aspects, such as use of A-IIT Bombay is launching Massive Open Online Courses View, the lab environment required for the main

- Algorithms
- Elements of C/C++ programming languages
- Basic data types
- Sequential and conditional execution
- Iterative solutions
- Arrays, matrices, and their applications Functions
- Basics of Sorting and searching
- Elements of string processing
- Introduction to pointers
- Software Engineering concepts
- Pointers
- Structures
- File processing
- Handling graphics
- Introduction to Object Oriented Programming
- Classes and Methods. C++ Standard Library

Teaching Faculty

Prof. Deepak B. Phatak, Department of Computer Science and Engineering, IIT Bombay http://www.cse.iitb.ac.in/~dbp/

Duration and Venue

The duration of the workshop is two weeks.

One week of equivalent work Is to be done online from 16 March to 19 April, from their own places of work/homes.

One week of face to face interaction from 21 April to 26 April, 2014, is to be conducted in IIT Bombay.

Who should attend?

The workshop is required to be attended by faculty colleagues, who are willing to be prospective Workshop coordinators for the main workshop to be held in summer.

It is mandatory that the prospective coordinators should have taught Computer Programming at least two to three times at a comparable level. He/she should be familiar with the syllabi and examination pattern of their own college or university. It is also preferable that they should have at least 3 years of teaching experience with some experience in conduct or participation in ISTE, QIP, or similar workshops.

Important Note:

It is mandatory that the participant's Institute is well equipped to conduct the main workshop through the NKN/ internet for a minimum of 30 participants. For a remote center a primary requirement is provision of one computer per participant, with appropriate software (Licensed or Open source). This is for the laboratory component of the course.

It is also mandatory that the participants bring a document from the Heads of their institutes to the effect that the institute is willing to be part of this project, it will provide the necessary infrastructure for conduct of the main workshop, and will release the participant for the complete duration of the face-to-face interaction during the coordinators' workshop, as also the main workshop.

Note

Please note that this workshop is conducted under the T10KT project of IIT Bombay. Live recording of the course and other created content would be released under Open Source, through a portal. The recorded CD/DVD of the course lectures would be available for distribution at cost, to any individual/ institution. All participants are required to sign a No Objection certificate for such release of contents contributed by them during and after the workshop. All contributors will be acknowledged.

Accommodation and other support

Shared Guest House accommodation with standard boarding will be provided free to the participants depending on availability.

Course Fee

Since the workshop is funded by the National Mission on Education through ICT (MHRD, Government of India), there is no course fee for participation. Travel fare reimbursement will be made for up to A/C 2-tier or lowest return airfare, as per GOI entitlement.

How to Apply

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

Due to limited seats, only one registration from each remote center is allowed. Confirmation of registration will be sent by email. **Enrollment will be strictly online.**

LAST DATE FOR ONLINE ENROLLMENT: 10th March, 2014

Address for Communication:

Dr. Mukta Atrey, Sr. Project Manager, Department of CSE, Kanwal Rekhi Building, Indian Institute of Technology Bombay, Mumbai - 400 076.

Tel.: +91-22-2576 4989 Fax: +91-22-2572 0022

Email: eoutreach@it.iitb.ac.in

Two Week ISTE Workshop for Coordinators

on

Computer Programming

Under the

National Mission on Education through ICT (MHRD, Govt. of India)

One week work to be completed online, during 16 March to 19 April 2014

Physical participation at IIT Bombay during 21 April to 26 April 2014

Conducted by IIT Bombay



Course Coordinator:

Prof. D. B. Phatak

Dept. of Computer Science & Engineering

Indian Institute of Technology Bombay
Mumbai - 400076