AUA Online Education Conference 05 July 2019

Online Education Initiatives at IIT Bombay

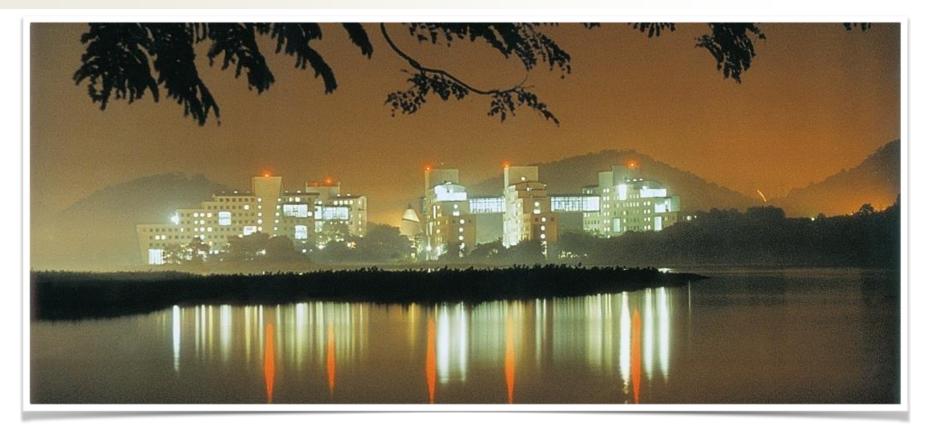
Sridhar Iyer

Indian Institute of Technology Bombay, India Professor, Dept of Computer Science Convener, IDP on Educational Technology





Indian Institute of Technology Bombay



- A premier technical university located in the financial capital of India,
- ~95% of the community lives in a residential campus with a small hill,
 two natural lakes and occasional visits by leopards and crocodiles.



IIT Bombay at a glance

Teaching and Research

~10100 students on roll 3283 Bachelors, 895 DD, 3006 Masters, 3300 PhD

135+ Post-doctoral fellows; 1400+ Project staff (Technical)

27 Academic Units; 23 Research Centres

~640 full-time faculty; ~150 part time (adjunct & visiting)



Academic Units @ IIT Bombay



Sciences

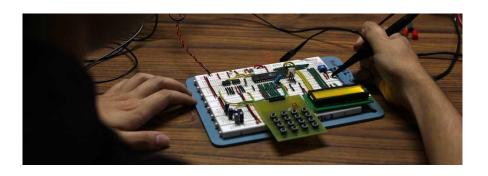
Biosciences and Bioengineering Earth Sciences Chemistry Mathematics Physics

Humanities, Design, Management
Humanities & Social Science
Industrial Design Centre
Shailesh J. Mehta School of Management



Engineering

Aerospace Engineering
Chemical Engineering
Civil Engineering
Computer Science & Engineering
Electrical Engineering
Energy Science and Engineering
Environmental Science and Engineering (CESE)
Mechanical Engineering
Metallurgical Engineering & Materials Science



Interdisciplinary Programs

Climate Studies
Educational Technology
Industrial Engineering and Operations Research
Systems and Control Engineering

Educational Technology @ IIT Bombay



Interdisciplinary Programme in Educational Technology Indian Institute of Technology Bombay

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Welcome to EdTech @ IIT Bombay

The Interdisciplinary Programme in Educational Technology at IIT Bombay is actively involved in research and education in the area of technologies to promote the learning-teaching process. The IDP is composed of faculty members from various departments in the Institute. The thrust areas of research of the IDP-ET are:

- Technology-enhanced learning environments for pan-domain cognitive abilities.
- Frameworks for teacher use of educational technology tools and strategies.
- Using technologies such as GSR, EEG and eye tracking to understand teaching-learning processes

The IDP offers a Ph.D. programme in Educational Technology. The programme consists of coursework, projects and a dissertation. To apply please visit the ET Admissions page or the IIT Bombay Ph.D. admissions page.

Tweets by @edtechIITB

Educational Technology, IIT Bombay

et @edtechIITB

Call for Papers: The 10th IEEE International #Conference on Technology for Education (T4E) 2019 will be held at Goa University, Goa, India, from

December 9 - 12, 2019.

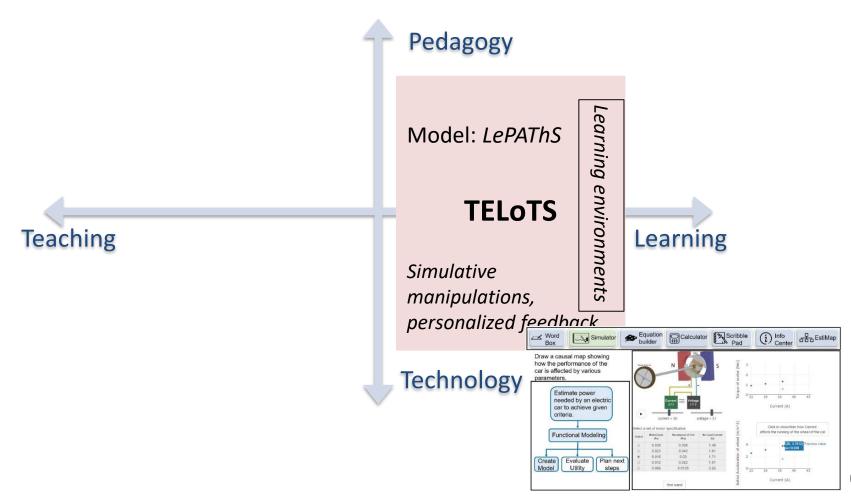
Deadline: Submit your paper by July 18, 2019.

More here: t4e2019.unigoa.ac.in



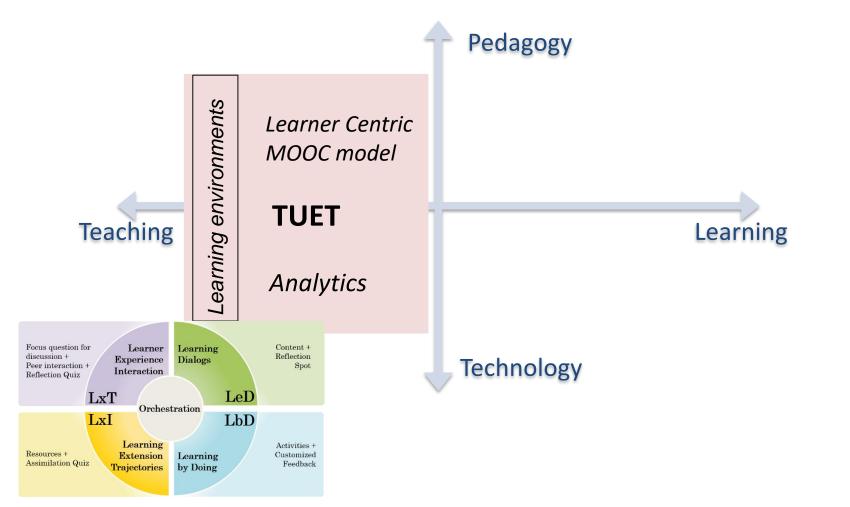


Research Area 1: Technology enhanced learning of thinking skills





Research area 2: Teacher Use of Educational Technology



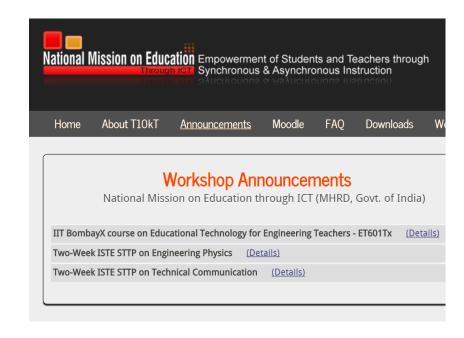
National Mission on Education Through ICT

- Policy: Government of India is committed to supporting education through effective use of ICT.
- www.sakshat.ac.in; mhrd.gov.in/nep-new
- National Mission launched in 2009.
- 100+ projects, 20+ institutions, Rs 6000crore (~1 billion USD)
- All content under Open Education Resources
- Technology developed under FOSS
- Research in Technology for Education

T10KT

Teach 10000 Teachers – www.it.iitb.ac.in/nmeict





- 300+ remote centers
- 2-4 week long teacher training workshops in Engg
- 68 workshops About 150,000 teachers trained
- Blended mode Live lectures and interactions, with remote / online labs and assignments IIT Bombay

IITBombayX

MOOCs - www.iitbombayx.in



ABOUT

COURSES

HOW IT WORKS

Search Courses

LOGIN

REGISTER

Courses

IITBombayX offers numerous interactive courses listed below, including ongoing, upcoming and archived courses. Each of these courses are categorized under EduMOOCs, LifeMOOCs, SkillMOOCs and TeachMOOCs for various learning needs.

Refine Your Search

Timeline

Archived (93)

Launching Soon (1)

Ongoing (5)

Types of MOOC

EduMOOC (43)

(1) LifeMOOC

SkillMOOC (25)

TeachMOOC (25)

Domain

Animation (5)Communication (16)

Computer Science (23)

Course Search



C2CIT1x

Effective Use of IT in Professional Career

Launching Soon

Starts: Jun 11, 2019



C2CFL1x

Financial Literacy

Ongoing

Starts: May 14, 2019





SSA101x

Hands-on training on Solar Study Lamp Assembly

Ongoing

Starts: May 01, 2019

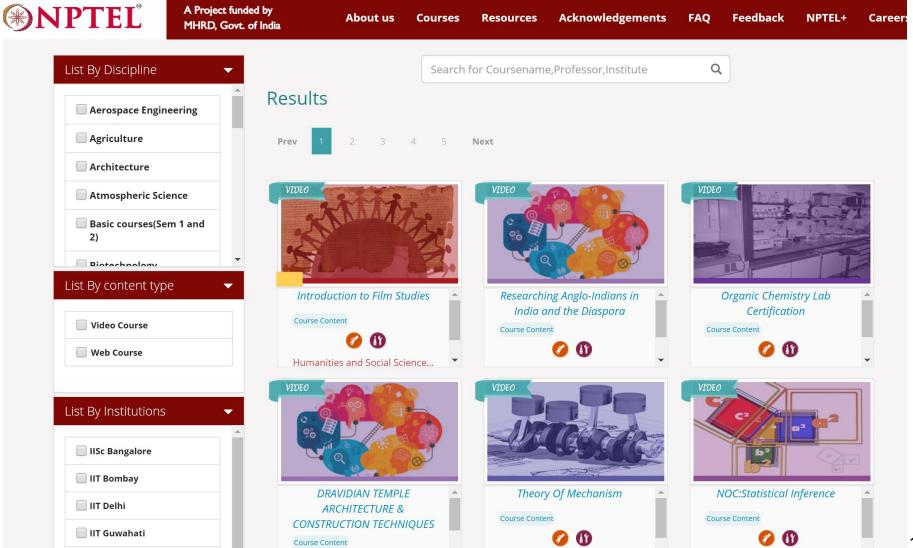




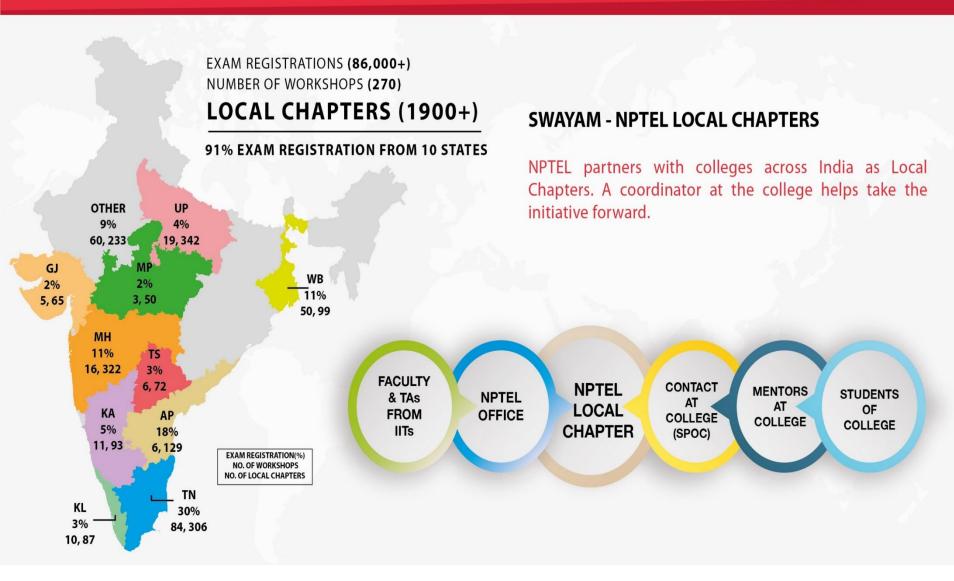


NPTEL

nptel.ac.in

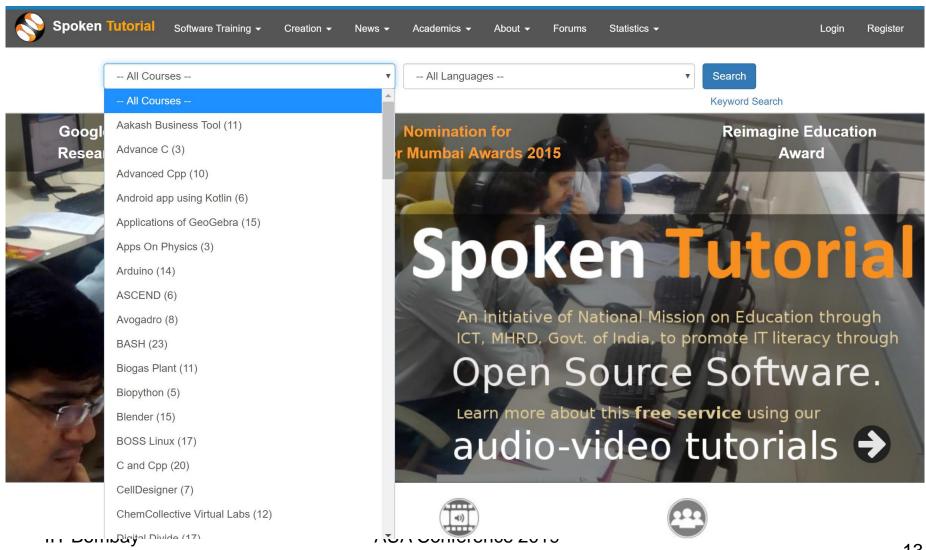


NPTEL LOCAL CHAPTERS (SINCE APRIL 2015)



SpokenTutorials

www.spoken-tutorial.org



FOSSEE

www.fossee.in



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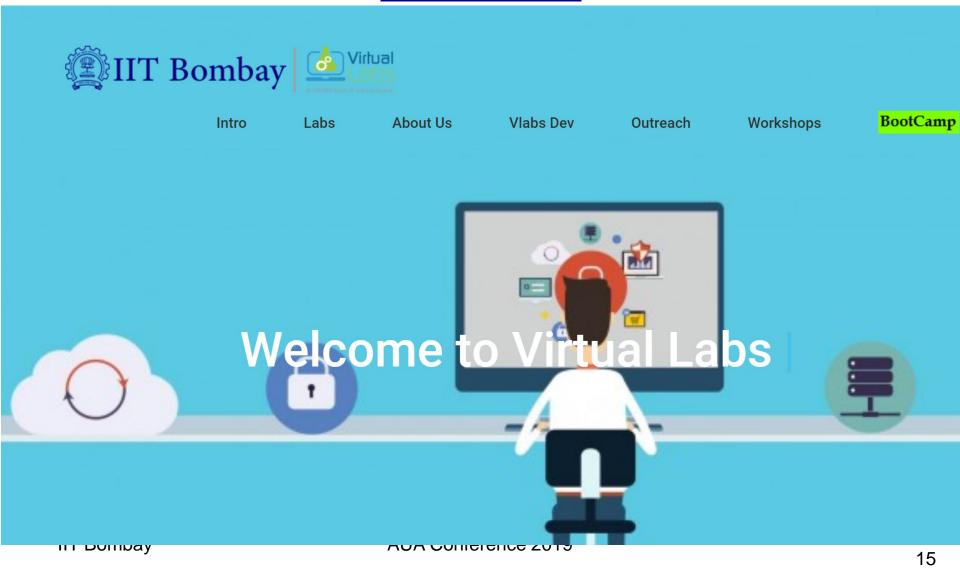
Resources

Scilab	eSim
OpenFOAM	OR Tools
Osdag	DWSIM
R	OpenModelica
Python	FOSSEE-Laptop
Anuduino	Sandhi
OpenPLC	Scilab-Arduino
SBHS	

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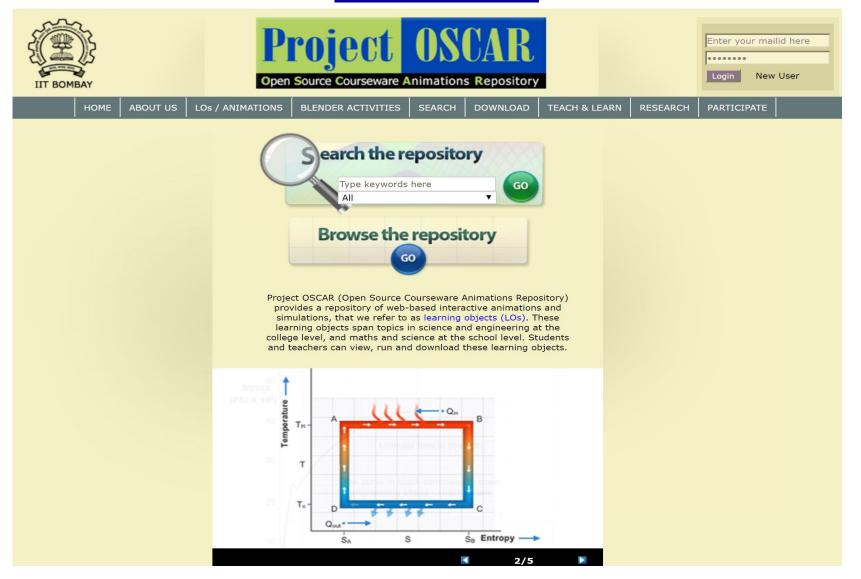
Virtual Labs

vlabs.iitb.ac.in



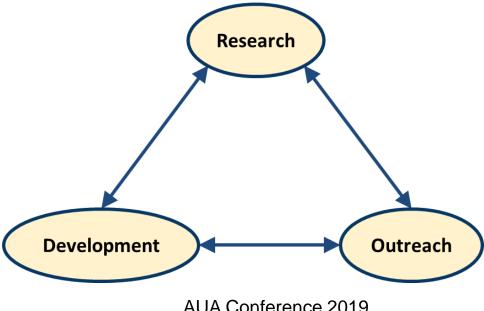
OSCAR

oscar.iitb.ac.in



Learnings

- To scale:
 - Do blended mode, use sound pedagogy, facilitated by technology.
- To be effective at scale:
 - Maintain learner-centricity, focus on immersivity and pertinency.
- To sustain at scale:
 - Promote early shift of ownership, enhance communities of practice.



T4E Conferences

THE TENTH INTERNATIONAL CONFERENCE ON TECHNOLOGY FOR EDUCATION (T4E) 2019

Dec 9 - 11, 2019, Goa, India

http://t4e2019.unigoa.ac.in

Paper submission deadline - July 18th

Themes:

- Pedagogical Strategies and Interventions for Technology-Enhanced Learning
- Technologies to Improve Access to Education
- Development of Technologies to Support Education

Visit Us



Educational Technology IIT Bombay

Openings:

Faculty - Short & long-term visits

Students – PhD / Post-doc in ET

Contact information:

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