

ACM India Education Committee & iSIGCSE

are organizing a

**Workshop on Computing Curricula for India:
Learning Outcomes, Pedagogy and Assessment**

at

The ACM India Annual Event 2017

Kolkata

Date: January 19, 2017

Time: 9:30 am to 5:00 pm

Department of Computer Science & Engineering
University of Calcutta,
Block JD, Sector III, Salt Lake
Kolkata 700106

ACM India has education in computing, and higher education in particular, as one of its focus areas as a part of its mission. One of the activities is the adaptation of the ACM-IEEE CS2013 Computing Curricula model developed by the ACM and IEEE group in 2013 (<http://cs2013.org/>). The India focused Special Interest Group on Computer Science Education – the iSIGCSE, has also been formed to carry out its activities more cohesively.

The ground realities of India and its CS higher education pose unique challenges. For the past year and half, an effort has been on to develop a model curriculum focused on a few sample courses. These initial efforts have developed the basic framework and noted a number of potential pitfalls in this adaptation process. The key next step is to involve our academia into the process. Towards this end, the current workshop focuses on a hands on approach towards an ACM-IEEE CS2013 style curriculum development that is relevant to the Indian context.

Through this announcement we reach out to you, the faculty of various academic programs centered around Computer Science. The one day workshop will present the

CS2013 and its India specific issues before lunch, and a complete hands on after lunch for a few select courses. Your participation requires that you bring along with you your own curriculum, the ground experience with its actual teaching, and the evaluation system followed at your institution. We suggest you brainstorm with your colleagues at your institution and bring a summary with you to the workshop. This will serve to greatly enhance the hands on experience. We hope that the hands on sessions will bring out the salient features (and advantages) of the CS2013 approach that you can then take home with you.

09:30 – 10:00	General Remarks <i>Madhavan Mukund (CMI, Chennai) and R Venkatesh(TCS)</i>
10:00 – 10:30	Introduction to CS2013 <i>Arati Dixit (SPPU)</i>
10:30 – 11:00	Learning Outcomes and Assessment: Common Pitfalls and Useful Tips <i>Viraj Kumar (PES University)</i>
11:00 – 11:30	Tea break
11:30 – 12:10	Designing an Introductory Programming course <i>Abhiram Ranade (IIT Bombay)</i>
12:10 – 12:50	Designing an Algorithms course <i>Viraj Kumar (PES University)</i>
12:50 – 13:30	Designing an Operating Systems course <i>Abhijat Vichare (Persistent)</i>
13:30 – 15:00	Lunch
15:00 – 16:15	Hands on session Working groups for different courses. Each group tries to map their designed UG course with CS2013 using the spreadsheet. At least figure out what the challenges are. We can decide the course we would like to own/support so that we can be prepared to handle this collective session.
16:15 – 17:00	The working groups report their findings to all.

[Registration is FREE, but mandatory.](#)