Course invitation

Formal Methods
(Half Module Computer Science)

Instructors: Krishnendu Chatterjee and Thomas Henzinger

Course Description:
We present formal modeling languages and analysis tools for discrete-event dynamical systems, with special emphasis on applications from computer science and biology.
The languages we discuss are based on mathematical logic, rewrite rules, automata, circuits, and programming constructs. The analysis methods include model checking, theorem proving, and abstract interpretation.
We give brief introductions to advanced models incorporating time, probabilities, game-theoretic aspects, and continuous behavior.

Course Requirements and Exams:
Lectures and recitations, weekly homework, 75-min-exam at the end of the half-term

Course schedule:
2 weekly 75 min lectures Tuesdays and Thursdays, 1:45 – 3:00 pm, recitation TBA

Course Academic Credits: 3 ECTS

Course Website: http://pub.ist.ac.at/courses/2012/formalmethods/

This course starts on Tuesday, October 2, 2012 (1:45 - 3:00 pm)
Seminar Room Mondi 3, IST Austria Central Building, 1st floor

Please register for the course a week in advance at
http://ist.ac.at/graduate-school/courses/registration/

This invitation is valid as a ticket for the IST Shuttle bus (#242) from and to Heiligenstadt Station. Please find a schedule of the IST Shuttle on our webpage (note that the IST Shuttle times are marked in dark green): https://ist.ac.at/fileadmin/user_upload/pdfs/IST_shuttle_bus.pdf. The IST Shuttle bus is marked IST Shuttle and has the Institute Logo printed on the side.