Flipping the Classroom with Just-in-Time Teaching

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Friday, January 31
8:30–11:30 a.m.
OR
1:30–4:30 p.m.
Room 50 Milton Hall

Education research and the rapidly evolving technology tools contribute to the growing importance of flipping the classroom and moving the first contact with material outside of the classroom so that class time can focus on more interactive activities.

Just-in-Time Teaching (JiTT) is a web-based pedagogical strategy, now in its seventeenth year and practiced in virtually all academic disciplines (Simkins 2009). The strategy encourages students to make a significant effort in preparation for a follow-up interactive in-class experience.

In this hands-on workshop participants will explore the workings of JiTT in a variety of academic disciplines, especially STEM disciplines (science, technology, engineering and mathematics). Participants will become familiar with the education research underpinnings of the strategy and leave with a start-up kit to try JiTT in their own classrooms. The emphasis will be on tools and strategies to create successful pre-class assignments as well as in-class activities. In addition, some significant recent enhancements of our original JiTT paradigm will be presented and discussed.

Gregor M. Novak, Ph.D., Mathematical Sciences from Indiana University Bloomington, is Professor of Physics Emeritus, Indiana University-Purdue University Indianapolis (IUPUI) and Distinguished Scholar in Residence, United States Air Force Academy. The culmination of some 50 years of his professional experience is a web-based, classroom-linked strategy termed “JiTT” or Just-in-Time Teaching. With JiTT now in successful use at IUPUI, the Air Force Academy, and many other institutions, Novak spends some of his time promoting its principles for wider use. He is co-author, Just-in-Time Teaching, Blending Active Learning with Web Technology. Eric Mazur (Harvard University) wrote: “I just finished reading your book—very nice and tremendously useful! . . . I will surely use it extensively when I teach again.”

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