

American Society for Engineering Education - Southeast Region (ASEE-SE)

Apr. 12-14, 2015

Gainesville, FL

Workshop 13: How to use the flipped class to teach effectively

Start Time: April 12, 2015 from 1:00PM-3:00PM

Presenter names: Autar Kaw, Professor of Mechanical Engineering, University of South Florida

Workshop goals:

- Goal 1: How to teach an engineering course using a flipped classroom
- Goal 2: Lessons learned in teaching a flipped classroom
- Goal 3: Engage the audience in challenges they may face in teaching a flipped classroom

Brief description of topics to be covered: With computers being affordable, smart phones becoming ubiquitous and internet available at low cost, flipped classrooms are becoming more popular as a pedagogy. Flipped classrooms take the transmission of content from the classroom to home, and the assimilation of the content at home to the classroom. In this workshop, we will discuss the differences between traditional, blended and flipped classrooms, the tools and techniques used to teach a flipped classroom, the challenges and opportunities of teaching a flipped classroom, and the evidence or lack thereof of the effectiveness of flipped classrooms in higher education. The presenter has taught partially- and fully-flipped and blended classes, and will present the personal lessons learned in the process. The audience will be then be engaged in a discussion on how they would teach a flipped class.

Workshop Fee: \$5