

Teaching Practice for Lecturing and Presenting in Engineering

This course will offer you an intense opportunity to practice teaching and to get detailed feedback on your teaching. The practice will come in the form of 5 short lessons on specific topics. On Days 1-4, you will teach to a group of 4-5 other students and on Day 5, you will have a group of about 10 participants.

The feedback you receive on your teaching will be more valuable to you if you are well prepared.

A lesson is a short teaching sequence, like solving an exercise session or introducing a lab experiment. See the guidelines below about topics and duration for each day. Choose a subject which is important or interesting to you, but please do keep in mind the varied backgrounds of the other participants.

While it can be useful to already have a topic in mind for each day, we suggest that you prepare only first day's teaching sequence now. For each lesson, you should incorporate ideas and strategies seen previous day or from the readings, as well as the feedback you received and your personal reflections.

Ultimately what you get out of this class, far exceeding the importance of your grade, will come from teaching practice and your peers' feedback on these short lessons.

Day	Duration	Topic	Requirements ***Use lesson planners
1	5 minutes	Motivation + potential outcomes of your thesis project	Be sure to include a lead-in, key message and summary.
2	10 minutes	Resolution of an exercise, problem solving activity, etc.	Use of the board or flipchart (no PowerPoint or slides). Use of questions/interactivity, plus lead-in + summary
3	15 minutes	Cutting edge experimental technique or procedure, which is cognitively challenging to understand (ie difficult concept, rather than overwhelmingly detailed)	LOAFS structure
4	15 minutes	Quantitative data FOR A GENERAL PUBLIC AUDIENCE	Use of visualisation/diagram + LOAFS structure
5	15 minutes	RE-DO your lesson from Day 2, 3 or 4 - Incorporate peer feedback and self-reflection - For an INTRODUCTORY ENGINEERING AUDIENCE	LOAFS structure

See the following pages for the Day 1 lesson planner and 2 sample lesson plans