10 - SEEM2460 Introduction to Data Science

Tools / Services	Pedagogical Uses
Microsoft's OfficeMix – which I can simply download and use by myself with minimal technical support. In fact, the software tool allows me to produce my own micro-module by myself.	This section presents the collective pedagogical experiences from the three colleagues contributing the 3 micro-modules for this mid-semester progress report. We emphasize that each micro-module should consist of video footage accompanied by peripheral information, e.g. PPT, white papers, conference and journal publications. This will increase autonomy in learning. Micro-modules are intended to cover a focused topic, with a layout that promotes the students' critical thinking on the subject and lead them to further explore the topic. These are achieved by relating the material to what they have learned in the past, asking questions that lead them to think deeper on the technical issues at hand, and explaining how the techniques can be used to solve a host of practical engineering problems. Alternatively, a micro-module may also provide a general overview of a focused topic, to set the stage for more critical discussions and interactions in class. Overall, the micro-modules help students in reviewing the material and catch important points that they may have missed during the lecture.