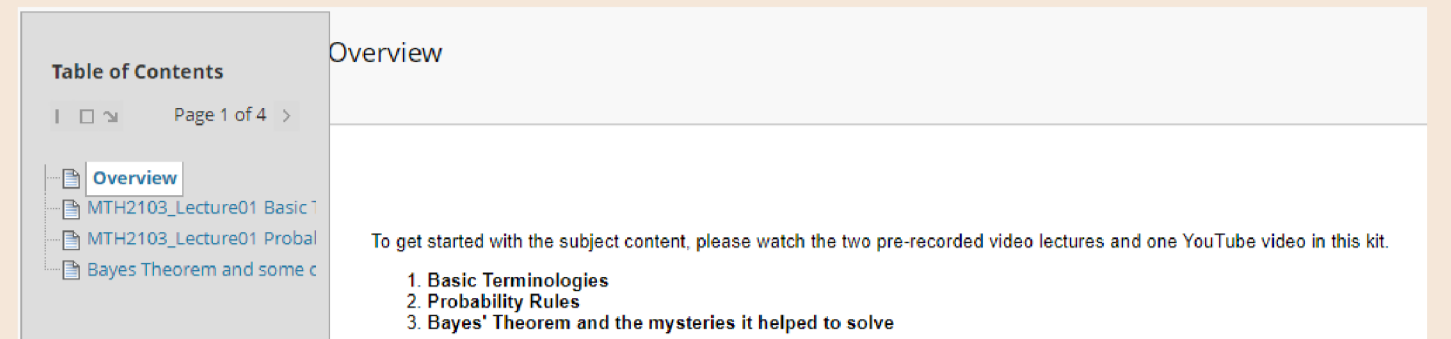
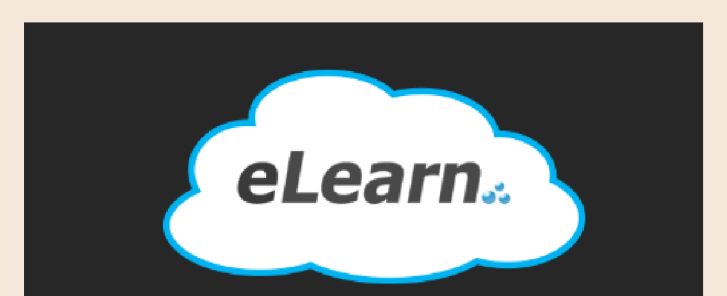


# Pre-Lecture Preparation Kit: An eLearn Learning Module for Flipped Classroom



**Dr Selina Low Yeh Ching**

Department of Computing and Information Systems  
School of Engineering and Technology

## 1 Background

Final year students in the BSc (Hons) IT (Computer Security and Networking) programme are required to take a subject in probability and statistics. Students have different knowledge level on statistics and some do not have the necessary foundation expected. Flipped learning approach has been introduced since 2019.

## 2 Challenge

As students transition to return to campus post-pandemic, combination of pre-class preparation, in-class activities during online lecture and F2F tutorials can be overwhelming if it is not well-managed.

## 3 Objectives

↓ To alleviate confusion and uncertainty on pre-class preparation requirements in a flipped learning environment.

↑ To improve student engagement with pre-class learning materials in a flipped learning environment.

## 4 Strategy

Overall structure of flipped learning materials has to be well-organized [1]. To enhance inclusivity and online learning experience by leveraging eLearn as a course site, a pre-lecture preparation kit is prepared for each week on eLearn throughout the March 2022 semester.

Learning materials and activities within the kit are to be completed as a package before students join the online live lecture class which focus on Q&A, discussion, ungraded quizzes or Padlet activity.

Using the Learning Module block on eLearn, these "kits" are structured as follows [2]:

- Overview
- Pre-recorded video lecture
- Supplementary materials such as YouTube videos, websites, articles, etc
- Lecture slides

## 5 Findings and Impact



Students' subject evaluation on the following items increased from previous semester.

*The subject was well structured.*

*The learning resources assisted my learning in this subject.*



*"Well-organised."*

*"Online materials were presented systematically."*

*"Educational videos which were interesting enough to be watched entirely."*

*"The way she organizes learning materials in eLearn is tidy. I can easily navigate myself in eLearn."*

## 6 Recommendations



Additional optional materials can be curated and included in the pre-lecture kits for interested students or those who would like to have extra exercises.