

Multiple Enroll: N
Course Attributes: Faculty Package Course: Engineering
Virtual Teaching & Learning Course

Topics:

COURSE OUTCOMES

Learning Outcomes:

Upon successful completion of this course, students will be able to:

1. have a basic understanding of the concept and principles of AI;
2. have a basic understanding of machine learning principles;
3. learn the use of common generative AI tools to assist their learning;
4. understand the ethics of using AI responsibly.

Course Syllabus:

The course aims to equip the students with the readiness to understand, use, and critically reflect on artificial intelligence (AI) applications in their learning process. The workshop comprises 4 micro-modules, including

- (1) Introduction to AI and its impact to society,
- (2) Basic Principles in Data Analytics, Machine Learning, Neural Networks and Deep Learning,
- (3) Major Application Areas in AI: Natural Language Processing, Image Classification and Generative AI, and
- (4) Generative AI Tools to assist learning and Social Ethics of AI.

Each micro-module will be a video clip of about 15-20 minutes. All the modules will be accessible online. Students are required to complete the online workshop by viewing the provided micro-modules and get a pass in an online quiz, during their first year of study.

Assessment Type:

Micro-teaching	: 60%
Test or quiz	: 40%

Feedback for Evaluation:

Students are encouraged to give comments and make suggestions using the following channels:

1. There is one course evaluation at the end of the course. This is a formal channel for students to rate course content. Students

can give specific comments or suggestions in addition to the numeric ratings.

2. Students can provide feedback using informal channels, such as email.

Required Readings:

Will be provided by in the respective teaching term

Recommended Readings:

Will be provided by in the respective teaching term

OFFERINGS

1. ENGG1111 Acad Organization=ENO; Acad Career=UG

COMPONENTS

IND : Size=300; Final Exam=N; Contact=0

ENROLMENT REQUIREMENTS

1. ENGG1111 **Enrollment Requirement Group:**
Co-requisite: ENGG1110

New Enrollment Requirement(s):
Co-requisite = ENGG1110

Additional Information

VTL-Onsite face-to-face hrs 0
VTL-Online synch. hrs 0
VTL-Online asynch. hrs 4
No. of micro-modules 4
Research components (UG) 0%

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