1. Course number and name: **CSE702040 – Introduction to Computing + Lab**

2. Credit: 2 (Computing topics); Required
   Contact hours: 3 (Lecture: 2/week, Discussion: 1/week)

3. Instructor's or course coordinator's name: Dr. Mai Xuan Trang

4. Text book: Course readings provided in class
   a. Required:
   [1] Foundations Of Computer Science, Behrouz Forouzan, Cengage Learning, 4th Ed., 2018
   b. Additional Textbooks (Optional):

5. Specific course information:
   a. Catalog description of the content of the course:

   This course overviews the computing field to students; also included are topics social and ethical issues. The lab topics include an overview of computers and programming; problem-solving and algorithm development; simple data types; arithmetic and logical operators; selection structures; text files; arrays; some useful tools for CS & IT study (using Linux OS, version control, search engine, editors, …).

   b. Prerequisites: No

6. Specific goals for the course:

   a. Course Learning Outcomes:
   Course Learning Outcomes and Relationship to Student Outcomes:

At the end of the course, students will be able to	Student Outcome No.
LO.01 – Be familiar with the scope of degree programs in the computing field	4
LO.02 – Be familiar with the career potential opportunities	4
LO.03 – Be familiar with the professional organizations	4

   b. Related Student Outcomes:

No.	Information Technology / Computer Science graduates must have…
4	Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.

7. Brief list of topics to be covered:
   - Computer Software and Hardware
   - Data representation and operation
   - Computer Network and Internet
   - Operating systems
   - Algorithms & Programing
   - Databases
   - Security
   - Social and Ethical Issues