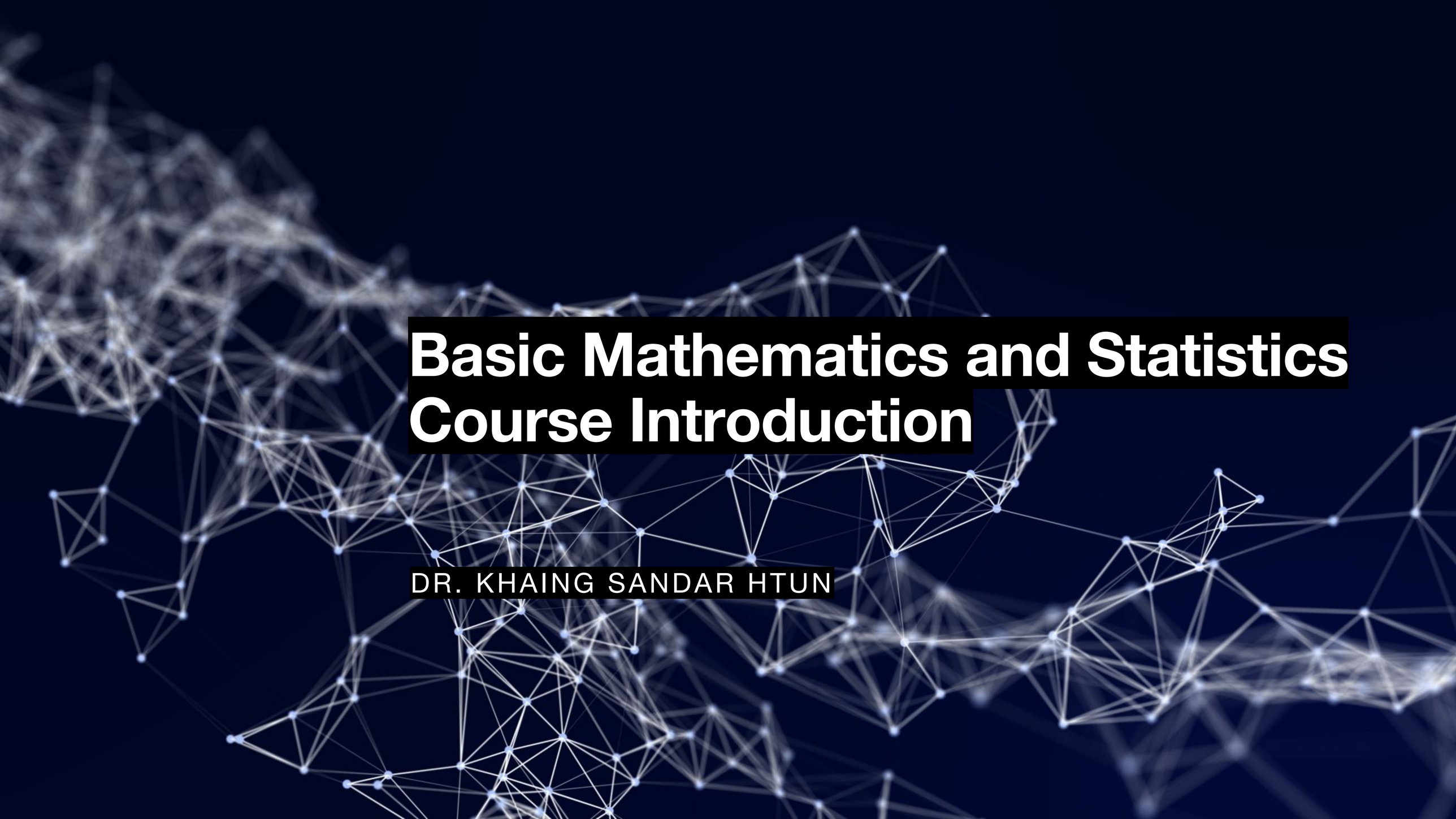

Basic Mathematics and Statistics Course Introduction

DR. KHAING SANDAR HTUN

Course Outline (Semester 1/2021)

ITX1001/CSX1001 - Basic Mathematics and Statistics (section 541)

Course Description:

This course provides the concepts of basic foundation in mathematics and statistics. Topics studied at a basic foundation level include real numbers and sets, algebra, linear equations and inequalities, analytic geometry, functions, trigonometry, conic sections, matrix, algebra, sequences and series, data and statistics, and method for summarizing and describing sets of data.

Course Outline

Text Book:

Nochai, Titida, Teaching Materials: Basic Mathematics and Statistics, Vincent Mary School of Science and Technology, Assumption University of Thailand, 2019.

References:

- Anderson, David Ray, Statistics for Business and Economics, 8th ed., South-Western, 2002.
- Exley, Lind L., Beginning Algebra with Applications, Prentice Hall, 1990.
- Gordon-Holliday, Berchie W., Merrill Advanced Mathematical Concepts: Precalculus with Applications, New York: Glencoe/McGraw-Hill, 1997.
- Kuhfitting, Peter K.F., Basic Technical Mathematics, Brooks/Cole, 2000.
- Davis, Linda, Technical Mathematics, Merrill, 1990.
- Sullivan, Michael, and Sullivan III, Michael, Precalculus: Graphing and Data Analysis, Upper Saddle River, NJ: Prentice Hall, 1998.

Course Outline

Course Objective:

The object of this course is to foster a conceptual understanding and an appreciation of the applicability of the subject matter.

- 15 meetings (7 times before mid-term & 8 times after mid-term)
- 14 lectures, project presentation and concluding discussions
- 2 quizzes

Course Outline

Mark Allocation:

Assignments	20%
Term Project (mini-Research)	10%
Quizzes	10%
Midterm examination	20%
Final Examination	40%
TOTAL	**100%**

Course Outline

Assignment:

Each student will perform an extensive problem solving on the given topics.

Term Project:

Each student will conduct a mini research on the assigned topic. Project report is around 8-10 pages and presentation and answering question is around 10-15 minutes. Template for Project report will be provided.

Plagiarism in any of its several forms is intolerable.

Course Outline

Other Requirements:

1. **80%** class attendance is required to sit in the final examination.

2. Students should bring learning materials to all the (online) classes.