



Introduction to **PROBABILITY & STATISTICS**

Course code: MAS291

Instructor: Nguyen Nhu Ngoc

Password to join lms class:

Course description

1. The Roles of Statistics in Engineering
2. Probability
3. Discrete Random Variables and Probability Distribution
4. Continuous Random Variables and Probability Distribution
5. Descriptive Statistics

Course description

- 6. Sampling Distributions and Point Estimation of Paramaters
- 7. Statistical Intervals for a Single Sample
- 8. Test of Hypotheses for a Single Sample
- 9. Statistical Inference for Two Samples
- 10. Simple Linear Regression and Correlation

Main materials:

- **Montgomery D.C. & Runger G.C., Applied Statistics and Probability for Engineers, John Wiley & Sons, 4th (or 5th) ed.**

Course Rules

■ How to conduct

- ☐ Prepare contents of the next session at home (Book, Slides)
- ☐ Explain and understand new concepts and key points.
- ☐ Do homework (book), quiz (via LMS)

■ Others

- ☐ Off phone
- ☐ Use laptops under teacher's instruction
- ☐ No game, no chat in class

■ Communication

- ☐ Class
- ☐ Interchange by LMS Group
- ☐ Free to question and answer
- ☐ Fairly
- ☐ Active, be yourself, friendly and honest

Evaluation Strategy

- Must attend more than 80% of contact hours (if not, not allow to take exam).

- Evaluating

Quizzes (Q)	30 %
Assignments/Exercises (A)	20%
01 computer project (CP)	15%
Final exam (FE)	35%

- **Pass: Total score ≥ 5 and Final Examination ≥ 4 (of 10) and every ongoing assessment score > 0**

Q&A