

CHAPTER OVERVIEW

Chapter 3 Lecture Notes

In these chapters, we will learn the basic concepts of Probability and its application to statistic sampling. We will learn the addition rule, multiplication rule and conditional probability rule to calculate probability of complex events.

By the end of Chapter 3, students should be able to:

- Understand probability terms such as Sample Space, Events, Probability notation.
- Understand mutually exclusive events, independent and dependent events.
- Understand the use of Addition, Multiplication Rule and Conditional probability.
- Use Contingency table to determine if two categorical data are independent.

[Ch 3.1 Definitions and Terms](#)

[Ch 3.2 Independent and Mutually Exclusive Events](#)

[Ch 3.3 Addition and Multiplication Rule](#)

[Ch 3.4 Sampling With/Without Replacement](#)

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