

IE5203 Decision Analysis



<https://klpoh.github.io/courses/ie5203>

2024

POH Kim Leng, Ph.D.

Associate Professor

Department of Industrial Systems Engineering and
Management

National University of Singapore

Kent Ridge, Singapore 117576

pohkimleng@nus.edu.sg

<https://sites.google.com/view/pohkimleng>

<https://www.facebook.com/pohkimleng>

This page is blank.

Main Table of Content

Chapter

1. Introduction
2. Probabilistic Thinking
3. Decision Theory
4. Basic Decision Analysis
5. Bayesian Networks and Influence Diagrams
6. Advanced Decision Analysis:
Modeling Risk Preferences
7. Probability Distribution Assessment
8. Solving Complex Decision Problems:
The Decision Analysis Process / Cycle
9. Multiple Criteria Decision Making I:
Analytic Hierarchy Process
10. Multiple Criteria Decision Making II:
Multiple Attribute Decision Making
11. Options Thinking and Valuation in Decision Analysis

This page is blank.