COURSE DETAIL

MANAGEMENT SCIENCE
Country Korea, South
Host Institution Seoul National University
Program(s) Seoul National University
UCEAP Course Level Lower Division
UCEAP Subject Area(s) Business Administration
UCEAP Course Number 49
UCEAP Course Suffix
UCEAP Official Title MANAGEMENT SCIENCE
UCEAP Transcript Title MANAGEMENT SCIENCE
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course provides an introduction to methods of operations research from an executive or managerial viewpoint, emphasizing formulation of business problems in quantitative terms. Topics include industrial applications of linear programming, dynamic programming, game theory, probability theory, queuing theory, and inventory theory. More specifically, this course is about learning how to structure, analyze, and solve business decision problems on Excel Spreadsheet, with emphasis on systematic, logical thinking, and problem solving. The course addresses problems involving data analytics (how to summarize the available data into useful information), optimal resource allocation (how to best utilize the available resources), decision tree (how to make decisions in a sequential manner), and risk analysis (how to incorporate uncertainty in business environment). In each area, specific problems in operations, finance, and marketing are considered and students build models to represent them on spreadsheets to analyze and solve them using the available Excel commands, tools, and add-ins.

Language(s) of Instruction
English

Host Institution Course Number
251.207A

Host Institution Course Title
MANAGEMENT SCIENCE

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Business Administration

Course Last Reviewed
2022-2023

Print