COURSE DETAIL

3.00

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**

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 addins.

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

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