COURSE DETAIL

FUNDAMENTALS OF OPERATIONAL RESEARCH
Country United Kingdom - Scotland
Host Institution University of Edinburgh
Program(s) University of Edinburgh
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Mathematics
UCEAP Course Number 140
UCEAP Course Suffix
UCEAP Official Title FUNDAMENTALS OF OPERATIONAL RESEARCH
UCEAP Transcript Title OPERATIONL RESEARCH
UCEAP Quarter Units 4.00
UCEAP Semester Units 2.70

Course Description

Dynamic programming is a neat way of solving sequential decision optimization problems. Integer Programming provides a general method of solving problems with logical constraints. Game theory is concerned with mathematical modelling of behavior in competitive strategic situations in which the success of strategic choices of one individual (person, company, server, ...) depends on the choices of others. By the end of this course, students have gained: ability to formulate and solve a sequential decision optimization problem; ability to formulate and solve optimization problems with logical constraints; ability to find optimal and equilibrium strategies for zero- and nonzero-sum 2x2 matrix games; and mastery of the theory underlying the solution methods.

Language(s) of Instruction
English

Host Institution Course Number
MATH10065

Host Institution Course Title
FUNDAMENTALS OF OPERATIONAL RESEARCH

Host Institution Campus
Edniburgh

Host Institution Faculty
School of Mathematics

Host Institution Degree

Host Institution Department

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