

Course Descriptions Bachelor 2022-2023

Course Title Introduction to Software in Operations Research

Course Code EBS2073

ECTS Credits 4,0

Assessment Whole/Half Grades

Period	Start	End	Mon	Tue	Wed	Thu	Fri
3	16-1-2023	27-1-2023	C				

Level Advanced

Coordinator Andre Berger For more information:a.berger@maastrichtuniversity.nl

Language of instruction English

Goals

1. The student will learn to model optimization problems as (integer) linear programs. These problems can come from various domains, such as business, mathematics, or logic puzzles.
2. The student will learn how to implement and solve (integer) linear programming models using state-of-the-art software.
3. The student will learn how to summarize and interpret the results of their implementation in a report.

Description

PLEASE NOTE THAT THE INFORMATION ABOUT THE TEACHING AND ASSESSMENT METHOD(S) USED IN THIS COURSE IS WITH RESERVATION. A RE-EMERGENCE OF THE CORONAVIRUS AND NEW COUNTERMEASURES BY THE DUTCH GOVERNMENT MIGHT FORCE COORDINATORS TO CHANGE THE TEACHING AND ASSESSMENT METHODS USED. THE MOST UP-TO-DATE INFORMATION ABOUT THE TEACHING/ASSESSMENT METHOD(S) WILL BE AVAILABLE IN THE COURSE SYLLABUS.

Students will acquire the skills to model optimization problems as (integer) linear programs and to solve such programs using the software package CPLEX as a Java library. Being able to model business and economics problems as linear programs and being able to solve them efficiently is essential in business and research.

Literature

Prerequisites

- * Optimisation (EBC2105)
- * Operations Research (EBC2106)

Keywords

Teaching methods

Assessment methods

Evaluation in previous academic year

For the complete evaluation of this course please click <http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM>

This course belongs to the following programme / specialisation

Bachelor Econometrics and Operations Research Year 3 Elective Skill(s)