Course Descriptions None 2022-2023

Course Title	Introduction to Software in Operations Research
Course Code	EBS2073
ECTS Credits	4,0
Assessment	Whole/Half Grades

Period

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)