

Course Descriptions Exchange 2023-2024

Course Title Advanced Operations Research
 Course Code EBC4051
 ECTS Credits 6,5
 Assessment Whole/Half Grades

Period	Start	End	Mon	Tue	Wed	Thu	Fri
4	5-2-2024	28-3-2024		X		X	

Level Advanced
 Coordinator Lissa Melis For more information:lissa.melis@maastrichtuniversity.nl
 Language of instruction English

Goals Deepen the knowledge on a wide variety of optimization techniques through a detailed study of state-of-the-art academic literature. Students learn to make appropriate design choices in algorithmic development for a broad range of real-life problems. Students can implement their own solution procedure and judge its quality and performance. Students can communicate their results in a professional way and translate numerical results in clear recommendations for the decision makers.

Description Students learn how to apply state-of-the-art techniques from mathematical programming, combinatorial optimisation, and heuristics and search methodologies to specific classes of problems as well as to real-life applications in these areas. Students will learn how to read state-of-the-art research articles, to understand the technical details, and to give presentations on the subjects.

Literature Various recent research articles.

Prerequisites Algorithms and Optimisation (EBC4049); problems and techniques from combinatorial optimisation and complexity theory, programming skills, heuristics and search methodologies.

Teaching methods PBL / Presentation / Lecture / Assignment / Papers / Groupwork / Research / Skills / Coaching

Assessment methods Final Paper / Attendance / Assignment / Computer test / Presentation

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

Master Business Research - No specialisation	Year 2 Methodology Elective(s)
Master Business Research - Operations Research	Elective Course(s)
Master Business Research - Operations Research	Year 1 Compulsory Course(s)
Master Econometrics and Operations Research	Elective Course(s)
SBE Exchange Master	Master Exchange Courses
SBE Non Degree Courses	Master Courses