

## Course Descriptions None 2015-2016

Course Title Planning and Scheduling  
 Course Code EBC4149  
 ECTS Credits 6,5  
 Assessment Whole/Half Grades

Period	Start	End	Mon	Tue	Wed	Thu	Fri
1	31-8-2015	23-10-2015		X		X	

Level Advanced  
 Coordinator Tjark Vredevelde For more information:t.vredevelde@maastrichtuniversity.nl  
 Language of instruction English

Goals In this course students will learn the state-of-the-art techniques for a broad variety of scheduling problems. In particular, it is expected that after this course students will be able to construct mathematical models for the basic problems, classify them, address the questions on computational complexity of the problems, and apply standard algorithmic techniques to solve the problems.

Description This is a course track for students interested in Operations Research (OR) of the Business Research Master.

The course addresses the issues of  
 \* Modelling production and planning problems as combinatorial optimisation problems;  
 \* Classification of scheduling environments and objectives;  
 \* Tractability of scheduling problems;  
 \* Solution methods for scheduling problems, e.g., combinatorial, LP-, and DP-based techniques, including exact algorithms, approximations and fast heuristics.

Literature Scientific articles.  
 Michael Pinedo, "Scheduling: Theory, Algorithms, and System" (recommended not obligatory).

Prerequisites Good working knowledge of algorithms and optimisation techniques.

Teaching methods PBL / Presentation / Lecture / Assignment

Assessment methods Final Paper / Participation / Written Exam

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	Free Electives
	Master Business Research Track OR	Free Electives