

Course Descriptions Master 2018-2019

Course Title	Planning and Scheduling							
Course Code	EBC4149							
ECTS Credits	6,5							
Assessment	None							
Period	Period	Start	End	Mon	Tue	Wed	Thu	Fri
	1	3-9-2018	26-10-2018	C				
Level	Advanced							
Coordinator	Tjark Vredeveld For more information:t.vredeveld@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 / Oral 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 - Operations Research				Free Electives			