

## Course Descriptions None 2016-2017

Course Title	Planning and Scheduling																
Course Code	EBC4149																
ECTS Credits	6,5																
Assessment	Whole/Half Grades																
Period	<table border="1"> <thead> <tr> <th>Period</th> <th>Start</th> <th>End</th> <th>Mon</th> <th>Tue</th> <th>Wed</th> <th>Thu</th> <th>Fri</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5-9-2016</td> <td>28-10-2016</td> <td>C</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Period	Start	End	Mon	Tue	Wed	Thu	Fri	1	5-9-2016	28-10-2016	C				
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1	5-9-2016	28-10-2016	C														
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	<p>This is a course track for students interested in Operations Research (OR) of the Business Research Master.</p> <p>The course addresses the issues of</p> <ul style="list-style-type: none"> <li>* Modelling production and planning problems as combinatorial optimisation problems;</li> <li>* Classification of scheduling environments and objectives;</li> <li>* Tractability of scheduling problems;</li> <li>* Solution methods for scheduling problems, e.g., combinatorial, LP-, and DP-based techniques, including exact algorithms, approximations and fast heuristics.</li> </ul>																
Literature	<p>Scientific articles.</p> <p>Michael Pinedo, "Scheduling: Theory, Algorithms, and System" (recommended not obligatory).</p>																
Prerequisites	Good working knowledge of algorithms and optimisation techniques.																
Teaching methods	PBL / Presentation / Lecture / Assignment																
Assessment methods	Final Paper / Participation																
Evaluation in previous academic year	For the complete evaluation of this course please click <a href="http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM">http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM</a>																
This course belongs to the following programme / specialisation	<table border="0"> <tr> <td>Master Business Research</td> <td>Free Electives</td> </tr> <tr> <td>Master Business Research Track OR</td> <td>Free Electives</td> </tr> </table>	Master Business Research	Free Electives	Master Business Research Track OR	Free Electives												
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