

<b>Module title</b>		<b>Abbreviation</b>
Material Planning and Scheduling (MPS)		10-PSC-MAD-132-m01
<b>Module coordinator</b>		<b>Module offered by</b>
MBA-Continuing Education		Faculty of Business Management and Economics
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
6	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	graduate	--
<b>Contents</b>		
<p>Motivation</p> <p>Materials planning and scheduling is crucial for an efficient and effective production and requires specific know-how on part of those responsible. Without proper materials planning and scheduling, it is not possible to achieve optimum utilisation of production facilities. Based on the production programme (to be determined), material requirements planning, material procurement planning, material procurement and warehousing will be carried out. In the context of materials planning and scheduling, material requirements planning is carried out using bills of materials. This module will cover the following topics:</p> <ul style="list-style-type: none"> <li>- Production programme</li> <li>- Materials requirement planning</li> <li>- Procurement planning</li> <li>- Warehousing</li> <li>- Bills of materials</li> </ul>		
<b>Intended learning outcomes</b>		
<p>Objectives</p> <p>Acquire comprehensive knowledge of materials planning and scheduling. Get an overview of the key aspects, such as the creation of the production program, implementation of material requirements planning, material procurement planning, materials procurement, and warehousing. In particular you will get an understanding of the bill of material explosion, which provides an important basis for the material requirements planning. You will also learn how to determine the minimum costs for the material supply. Using this knowledge, you will be able to perform the material requirements planning in your daily work. Approach</p> <p>The different aspects of materials planning and scheduling will be taught by professors and experts from the corporate world. In addition to the theories, numerous practical examples will be presented to you. By working in groups, you will perform typical tasks of materials planning and scheduling. Besides these operational methodologies, you will also develop skills to make strategic decisions concerning material requirement planning. In a written exam, you will have to take into account different framework conditions learned in the classroom sessions and discuss typical challenges of material disposition.</p>		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V + Ü (no information on SWS (weekly contact hours) and course language available)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 180 minutes) Language of assessment: German, English		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
Master's degree (1 major) Purchasing & Supply Chain Management (MBA) (2013)		

