

Module 5217 Production and Technology

1	Module Number 5217	Study Programme IM (MBA)	Semester 2	Offered in <input type="checkbox"/> WS <input checked="" type="checkbox"/> SS	Duration 1 semester	Module Type Compulsory	Workload (h) 180	ECTS Points 6
2	Courses		Teaching and Learning Forms	Contact Time		Self-Study Time	Language	
	a)	Production Systems	Lecture, lab, cases, company visits	(SWS) 2	(h) 30	(h) 30	English	
	b)	Technology Management	Lecture, presentation	2	30	30	English	
	c)	Sustainability Management	Lecture, exercises	2	30	30	English	
3	<p>Learning Outcomes and Competences Once the module has been successfully completed, the students</p> <p>Knowledge and Understanding</p> <ul style="list-style-type: none"> understand and know the principles and importance of different production systems (Production Systems) understand and know the principles of technology management (Technology Management) know the influence of sustainability aspects on the management and global level (Sustainability Management) <p>Use, Application and Generation of Knowledge</p> <p><i>Use and Transfer</i></p> <ul style="list-style-type: none"> apply methods and tools for managing technology worldwide apply lean methods to within an industrial company integrate and foster sustainability aspects in the management of industrial companies <p><i>Scientific Innovation</i></p> <ul style="list-style-type: none"> analyse problems and develop solutions <p>Communication and Cooperation</p> <ul style="list-style-type: none"> present contents and discuss them cooperate in finding solutions to optimize job-floor management <p>Scientific Self-Conception/ Professionalism</p> <ul style="list-style-type: none"> take different perspectives and points of view on a given situation, weigh them up against each other and make an assessment how and in which steps a lean implementation should be done <p>Methods</p> <ul style="list-style-type: none"> Presentation of the lecturer, discussions, real life case studies, company visit, hands-on exercise (lab), group work, presentations of participants, exchange of experience 							
4	<p>Contents The module covers the following three courses:</p> <ul style="list-style-type: none"> Production Systems: Apply the principles to different areas and fields in operations management Technology Management: Handle and solve typical tasks in managing technology and innovation Sustainability Management: Integrate sustainability aspects and requirements into operations management <p>This module supplies the student with different tools and methods which are important for operations management</p>							
5	<p>Participation Requirements recommended: Participants have knowledge of the foundations of the modules “Data Analytics and Information Management” and “Operations”</p>							
6	<p>Examination Forms and Prerequisites for Awarding ECTS Points</p> <ul style="list-style-type: none"> Written exam (incl. case studies) graded; Mid-terms (written, graded) will be obligatory 							
7	<p>Further Use of Module This module lays the foundation for modules “Sustainable Management” and “Master’s Thesis”</p>							
8	<p>Module Manager Prof. Dr. Siegfried Zürn</p>							

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9	Literature Please see the specific course descriptions
10	Last Updated 25.10.2019