

Module 619 Production Management

1	Module Code 619	Degree Program / Target Group(s) WNB	Semester 4	Starts in the <input checked="" type="checkbox"/> Winter Term <input checked="" type="checkbox"/> Summer T.	Duration 1 Semester	Module Type Mandatory	Workload (h) 150	ECTS Credits 5
2	Courses a) Production management		Type of Instruction / Form of Learning Lecture and Exercises		Language of Instruction English	Contact Time (h) weekly total 4 60	Self Study (h) 60	ECTS Credits 5
3	Table of Qualifications		Expertise	Methodological Skills		Personal & Social Skills		
	Knowledge & Understanding		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
	Applying Knowl. & Understanding		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>		
	Making Judgements & Analyzing		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>		
	Creating & Extending Knowledge		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
4	Learning Outcomes and Competences On completion of the module the students are expected to be able to: <p>Knowledge and Understanding (Knowledge)</p> <ul style="list-style-type: none"> Planning and decision making in the areas of strategic, tactical and operative production management: location decision, planning of the production program, quality management, technology management, capacity planning, sequencing and lot sizing. <p>Applying Knowledge and Understanding (Skills)</p> <ul style="list-style-type: none"> Classify and categorize planning problems, chose and apply methods to solve the problems Use heuristic and linear programming approaches to solve planning problems <p>Making Judgements and Analyzing (Competences)</p> <ul style="list-style-type: none"> Evaluate weaknesses and improvement potentials in production systems <p>Creating and Extending Knowledge (Competences)</p> <ul style="list-style-type: none"> none 							
5	Syllabus/Contents Basic lecture to give an overview on planning problems and approaches and methods to solve problems in a production environment. Students will be familiarized with different planning levels (strategic, tactical, operational) and problems that occur on the different planning levels. <ul style="list-style-type: none"> Strategic planning problems like location problems Planning and design of infrastructure of different production systems (job shop production, batch production, mass production) Operational planning problems, production planning Material requirements planning Capacity planning Lot size definition Allocation of production orders and sequencing of orders 							
6	Prerequisites According to the Examination Regulations (Studien- und Prüfungsordnung): <ul style="list-style-type: none"> None Recommended: <ul style="list-style-type: none"> 609 Purchasing and Logistics, 617 Statistics 							
7	Type of Assessment (Examinations) and Requirements for Credits Exam of 90 minutes							
8	Module can be used in the following Degree Programs WNB							
9	Module Director and other Lecturers involved Prof. Dr. Hannes Winkler							

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10	<p>Recommended Reading</p> <ul style="list-style-type: none"> • Günther, Hans-Otto und Tempelmeier, Horst: Produktion und Logistik, 8. Aufl., Berlin et al., Springer 2009. • Günther, Hans-Otto und Tempelmeier, Horst: Übungsbuch Produktion und Logistik, 7. Aufl., Berlin et al., Springer 2010.
11	<p>Contribution of the Module to the Educational Aims of the Degree Program</p> <p>Basic knowledge of organisation and planning at the shop floor within a producing company</p>
12	<p>Date of last Modifications</p> <p>15.04.2016</p>