

## t.ERPL - ERP-Systeme in Produktion und Logistik

**Person responsible for the course:** Stefan Dingerkus, dgks

**Credits:** 4

**Valid for:** 2010/2011

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### Learning objectives:

The Modul "ERP-Systems in Manufacturing and Logistics" (ERPL) comprises the operation and control of core processes in the areas production and logistics of a industrial manufacturing company.

After successful participation in the modul the student knows

the management and control process in industrial operations as well as its ERP-functionality in the example of SAP R/3:

Static and dynamic base data in ERP-systems

Materials management and inventory management

Key figures in production and logistics including their collection and analysis

Furthermore the intercorrelation between ERP-systems and other relevant legacy systems in corporations will be shown:

Customer Relations Management (CRM)

Product Data Management (PDM)

Product Information Management (PIM)

### Course content:

All relevant processes will be described and explained in the context of the industrial value chain.

Participants will explore and experience the complex dependencies with the SAP-based map exercise "Global Bike International" (GBI).

This modul will be lectures first in Spring Semester 2011 als Wahlmodul within the study programme Industrial Engineering (Wirtschaftsingenieurwesen) with 4 ETCS. There will be both weekly lectures and exercises. The exercises will be carried out as map exercise on SAP-R/3.

### Previous knowledge:

Interest in enterprise core processes in the area of production and logistics as well as base knowledge of the industrial value add process. Affinity to industrial manufacturing and supply chain management.

First knowledge of enterprise resource planning (ERP) and of ERP-systemes is recommended, for example acquainted in the modul "CRM- and ERP-systeme CESY" or in the moduls OM1-OMn.

èractical experience in the application of an ERP-system is not required.

### Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	7*2
Tutorial/Practicum	7*2
Group teaching	
Block instruction	
Seminar	

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**Assessment:**

According to the table or as specified in writing by the lecture at the beginning of the semester!

Number	Type	Weighting
1	End of term exam	60
2	Exam during the semester	20
	Further assessments	

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**Language of instruction:**

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**Instruction material:**

Will be announced at the beginning of the course.

Each participant receives an individual SAP-user access for the accompanying modul's exercises.

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**Comments:**

In the global supply network logistics acquaints the new task to control also the value flow beside the classical material and information flow.

Beyond the physical supply chain the so called information supply chain increases its importance as managerial core process.

Modern ERP-systems have to reflect these fundamental changes in the company's process control as well as to the other interfacing legacy systems.

Materials management and PPC need an increasing amount of information to achieve the overall goal with even partly contradictive targets, resulting from the various departemental tasks within the company.

Marketing and sales are demanding precise data regarding product availability and delivery. From production and from suppliers result manufacturing and supply information. And materials management provides information regarding inventories and transfer costs. In order to ensure successful process management and control additional data are required from various systems - all to feed the ERP-systems with necessary input to allow profitable business development.