

Module: Integrated Systems - SAP

Level	Bachelor	Short Name	SAP
Responsible Lecturers	Lohmann, Rüdiger, Prof. Dr.-Ing.		
Department, Facility	Mechanical Engineering and Business Administration		
Course of Studies	Business Administration and Engineering, Bachelor		
Compulsory/elective	Compulsory	ECTS Credit Points	5
Semester of Studies	6	Semester Hours per Week	4
Length (semesters)	1	Workload (hours)	150
Frequency	SuSe	Presence Hours	60
Teaching Language	English	Self-Study Hours	90

The following section is filled only if there is **exactly one** module-concluding exam.

Exam Type	Written Exam	Exam Language	English
Exam Length (minutes)	90	Exam Grading System	One-third Grades
Learning Outcomes	<ul style="list-style-type: none"> • Design and optimization of business processes • Order processing (OTC, P2P and Manufacturing) • Handling of SAP ERP • Integration of material and value flow • Important principles of materials management (lot-sizing, forecasting, safety stocks, ...) 		
Participation Prerequisites	Fundamentals of: Business,IT and Controlling Accounting 1+2, Production Management & Logistics		

The previous section is filled only if there is **exactly one** module-concluding exam.

Consideration of Gender and Diversity Issues	<ul style="list-style-type: none"> ✓ Use of gender-neutral language (THL standard) ✓ Target group specific adjustment of didactic methods ✓ Making subject diversity visible (female researchers, cultures etc.)
Applicability	
Remarks	

Module Course: Integrated Systems - SAP

(of Module: Integrated Systems - SAP)

Course Type	Lecture	Form of Learning	Presence
Mandatory Attendance	no	ECTS Credit Points	5
Participation Limit		Semester Hours per Week	4
Group Size	20	Workload (hours)	150
Teaching Language	English	Presence Hours	60
Study Achievements ("Studienleistung", SL)		Self-Study Hours	90
SL Length (minutes)		SL Grading System	

The following section is filled only if there is a course-specific exam.

Exam Type		Exam Language	
Exam Length (minutes)		Exam Grading System	
Learning Outcomes			
Participation Prerequisites			

The previous section is filled only if there is a course-specific exam.

Contents	<ul style="list-style-type: none"> • IT Applications in Business <ul style="list-style-type: none"> • Book keeping, MRP, MRPII, PPS u. ERP • Business Process Management <ul style="list-style-type: none"> • Goals, techniques • Order Processing with SAP ERP <ul style="list-style-type: none"> • OTC, P2P and manufacturing • MRP <ul style="list-style-type: none"> • Deterministic and consumption driven MRP • Lot-sizing, safety stocks, forecasting, ATP • Purchasing <ul style="list-style-type: none"> • Purchase Requisition, Purchase Order, goods receipt • Production <ul style="list-style-type: none"> • Production order, scheduling, order confirmation
Literature	<p>Discover SAP (Muir, Kimbell), Rheinwerk Verlag:</p> <ul style="list-style-type: none"> • Chapter 1 – SAP: The Company • Chapter 2 – The SAP Approach to Enterprise Computing • Chapter 3 – Enterprise Computing Basics • Chapter 6 – SAP ERP Operations • Chapter 10 – SAP Supply Chain Management • Chapter 17 – SAP Netweaver as an Enterprise Platform <p>Logistics with SAP ERP (Murray):</p> <ul style="list-style-type: none"> • Part I (Chapter 1-5) – Procurement and Logistics Execution • Chapter 6 – Production Planning - new

- Chapter 7 - Manufacturing Operations
- Chapter 10 – Sales Order Management
- Chapter 13 - Implementations

Essentials of Business Processes and Information Systems (Magal, Word):

- Chapter 1-6

Remarks	
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