Course xxx Digital Enterprise and Information Systems

<table>
<thead>
<tr>
<th>1</th>
<th>Course Number</th>
<th>Study Programme</th>
<th>Semester</th>
<th>Offered in</th>
<th>Duration</th>
<th>Course Type</th>
<th>Workload (h)</th>
<th>ECTS Points</th>
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<tbody>
<tr>
<td></td>
<td>xxx</td>
<td>TBB, TAB</td>
<td>6</td>
<td>WS SS</td>
<td>1 semester</td>
<td>Compulsory</td>
<td>120</td>
<td>4</td>
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2 Courses

<table>
<thead>
<tr>
<th>Teaching and Learning Forms</th>
<th>Contact Time</th>
<th>Self-Study Time</th>
<th>Language</th>
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<tr>
<td>Digital Enterprise and Information Systems</td>
<td>Lectures, lab exercises</td>
<td>(SWS) 4 (h)</td>
<td>60 (h)</td>
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3 Learning Outcomes and Competences

Once the course has been successfully completed, the students

Knowledge and Understanding

- are able to proceed standard processes in SAP Logistics Modules Materials Management (MM), Sales and Distribution (SD) and Production Planning (PP know which master data is basically necessary)
- know all steps starting from production/demand planning up to product delivery and customer paying understand the interaction of different modules together in an integrate ERP software
- learn about business processes supported by the software
- gain first experience in using the SAP user interface
- explain the basic procedure of the business processes and understand the connections within the software processes
- describe standard processes in terms of document flows in procurement, sales and distribution, product cost planning, production, billing
- know the understanding of SAP-processes in the context of industry 4.0
- know and understand approaches of digitalization in software processes with SAP like digital marketing for example
- understand the relationships between logistics and financials modules
- understand and explain typical features of ERP Systems i.e. availability check, SD pricing with condition technique
- know and understand the necessary steps of a SAP implementation

Use, Application and Generation of Knowledge

Use and Transfer

- recognize and classify connections to new ways of doing business (digitalization) – also w.r.t. ethical and sustainable aspects
- analyse problems occurring during processing application programs and find mistakes or missing inputs caused in master data
- Recognize the structure of master data and understand the cooperation between master data and application processes
- transfer the gained processing knowledge to other SAP modules and other business application software
- understand the basics of customizing
- understand the difference between customizing and programming
- develop SAP implementation or business applications software implementation plans

Scientific Innovation

- improve Business Application Systems
- develop concepts for the optimization of business processes with business applications software
- develop concepts for the digitalization of business processes with business applications software and apps

Communication and Cooperation

- use the learned knowledge, skills and competences to work out further applications and features of SAP and interpret them according to other business processes
- present methodical business contents and discuss them, i.e. methods for an optimization of purchase order quantity
- communicate and cooperate within the group in order to find adequate solutions for further digitalization of business processes

Scientific Self-Conception/ Professionalism

- derive recommendations for business process structuring decisions from a social and ethical perspective on the basis of the known possibilities and alternatives
- justify the application process solution theoretically and methodically

Methods

- Lecture, exercises in PC pool
- Independent work out of SAP applications
## Course xxx Digital Enterprise and Information Systems

### 4 Contents
- This course teaches details about enterprise resource planning with a focus on business application software (SAP). Basics about ERP Systems, Procurement Processes, Materials Management, Sales & Distribution, Production Cost Planning, Production, Quality Management, Accounting.
- The relation between value stream updating and stock updating/stock movement in different modules is shown. The special use of different business methods i.e. demand planning methods or optimization of procurement quantity in SAP are explained.
- New functions and apps to realize a digitalization of business process are discussed.
- The steps of the Implementation Roadmap of ERP-Systems are discussed and challenges and limits of customizing in ERP-Systems are discussed.

### 5 Participation Requirements
- recommended: Basic knowledge in Information Technology

### 6 Examination Forms and Prerequisites for Awarding ECTS Points
- Presentation graded

### 7 Further Use of Course
- Business Planning, Entrepreneurship

### 8 Course Manager and Full-Time Lecturer
- Prof. Dr. Uta Mathis

### 9 Literature
- [http://free.espresso-tutorials.com](http://free.espresso-tutorials.com)
- Capacity Planning with SAP, E-Book, Uwe Göhring. - Espresso Tutorials
- Guide to SAP In-House Cash (IHC), E-Book, Mary Loughran; Lennart Ullmann. - Espresso Tutorials
- First Steps in the SAP Purchasing Processes (MM) - 2nd edition, E-Book, Espresso Tutorials
- SAP MM Purchasing Simplified for Beginners (30+ Lectures), E-Video, Ulrika Garner. - Espresso Tutorials
- Value Flows into SAP ERP FI, CO, and CO-PA, E-Book, Espresso Tutorials
- First Steps in SAP Controlling (CO) / Ashish Sampat. - Espresso TutorialsE, E-Book
- First Steps in SAP Financial Accounting (FI) / Ann Cacciottoli. - Espresso Tutorials, E-Book

### 10 Last Updated
- 07.11.2019