Syllabus
BIS 2041 Business Process Management and Transactional Process Systems (BPMT)
Prof. Dr. Joachim Schuler
Winter Semester 2021

Level	Bachelor
Credits	4
Student Contact Hours	4
Workload	Students have to prepare before classes according to thetimetable. During class the students gain a deeper understanding by explanations, examples and the application of methods and tools. In addition, the students work continuously during the semester on exercises and on case studies in teams of three to four persons. The following workload estimate can be derived:

Preparation	15 hours
Contact	60 hours
Exercises	15 hours
Case studies	15 hours
Exam preparation	15 hours
In total	**120 hours**

Prerequisites	Proof of English language skills
Time	See schedule
Room	W1.2.03
Start Date	See schedule

Lecturer(s)		
	Name	Prof. Dr. Joachim Schuler
	Office	W2.2.04
	Virtual Office	Microsoft Teams
	Office Hours	https://www.hs-pforzheim.de/profile/joachimschuler
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Summary

This course provides on the one hand an insight on basic business functions, processes and data requirements like sales and delivery and materials management and emphasis using SAP ERP SD and MM. On the other hand foundations in business process management, business modeling using BPMN, principles of business process management, process analysis and process optimization

Outline of the Course

- the role of enterprise applications (ERP, CRM, SRM, SCM, and PLM) in a business context and corresponding opportunities for process optimization using IT systems

- a general overview of Enterprise Systems (ES) using SAP ERP software

- foundations of SAP ERP like organizational units and master data within the area of logistics

- a real case study cementing the theoretical foundation of the system and business processes by putting theory into practice using integrated business processes

- fundamental concepts for business process design as well as current trends in this area

- methodic approaches for modeling, analysis, and optimization of business processes

- foundations in business process management, business modeling using BPMN, principles of business process management and business process excellence life cycle, process analysis and process optimization as well as business process management within an enterprise

Course Intended Learning Outcomes and their Contribution to Program Intended Learning Outcomes / Program Goals

Program Intended Learning Outcomes		Course Intended Learning Outcomes	Assessment Method
	After completion of the program the students will be able…	After completion of the course the students will be able…	Term Paper
			100%
			Collective
1	**Expert Knowledge**		
1.5	...to demonstrate profound expert knowledge in their field of specialization.	model processes in BPMN for subsequent implementation in Business Process Management and Processes in Procurement and Sales and the support withSAP ERP.	X
2	**Digital Skills**		
2.1	...to know and understand relevant IT software tools used in business and their features and have a solid understanding of digital technologies.	to use SAP S/4HANA as ERP system for real-life case in sales and procurement,have an according understanding and to use. a BPMN Tool to model wirh BPMN	X
2.3	...to effectively use digital technologies to interact, to collaborate and to communicate.	to cooperate remotely and commonly solve a case study by using communication platforms.	X
3	**Critical Thinking and Analytical Competence**		
3.1	...to implement adequate methods in a competent manner and to apply them to complex problems.	to critically analyse processes in procurement and sales.	X
3.2	...to critically reflect and interpret findings and to develop comprehensive solutions for complex problems.	to reflect on KPIs and how to optimize processes.	X
4	**Ethical Awareness**		
5	**Communication and Collaboration Skills**		
5.2	...to demonstrate their oral communication skills in presentations.	to condense their knowledge in an appropriate manner to present their project results in an easily understandable way in the system.	X
5.3	...to work successfully in a team by performing practical tasks.	to cooperate in (virtual) teams to solve a common task during the case-study phase.	X
6	**Internationalization**		
6.2	...to articulate themselves in a professional manner in international business.	to explain their findings in English using correct terminology.	X

Teaching and Learning Approach

This course follows a holistic approach to teaching and learning. During the lectures, the content will be presented supported by in-class discussions. Additionally, an obligatory case study is used to deepen the students' understanding for SAP ERP and BPMN. The case studies has to be worked on in teams. The project aims to develop and present an integrative process live on SAP ERP and a complex business model.

Literature and Course Materials

	Dumas, M., La Rosa, M., Mendling, J, Reijers, H.Fundamentals of Business Process ManagementSpringer-Verlag 2013.
	Simha R. Magal, Jeffrey WordIntegrated Business Processes with ERP SystemsJohn Wiley & Sons Inc, 2010
	Weske, M.Business Process Management:Concepts, Languages, Architectures.(Second Edition). Springer, 2012
	Jeston, J.; Nelis, J.Business Process Management: Practical Guidelines to Successful ImplementationsButterworth-Heinemann, 2006

Lecture slides, case material, and any additional resources will be provided through the e-learning platform

Assessment

All students will work on a project in teams and present their results. The assessment will be made on the project results and the presentation. The presentation has to be submitted (as advised) before the due time. Team work is to be shared equally among members of the group. All team members will get the same grade. Possible exceptions will be discussed individually.

Schedule (tentative & subject to change)

5.10	Tue	15.30 -17:00	W2.2.01	Kick-Off, Intro
8.10	Fri	11:30 - 13:00	W3.2.01	Navigation SAP, MM Intro, Start MM Case
12.10	Tue	15.30 -17:00	W2.2.01	Lecture Processes, ERP
15.10	Fri	11:30 - 13:00	online	Start SD Case
19.10	Tue	15.30 -17:00	W2.2.01	Lecture Processes, ERP
22.10	Fri	11:30 - 13:00	online	Start own masterdata, Tasks for groupwork
26.10	Tue	15.30 -17:00	W2.2.01	Lecture BPM
29.10	Fri	11:30 - 13:00	online	Coaching 1
2.11	Tue	15.30 -17:00	W2.2.01	Lecture BPM
5.11	Fri	11:30 - 13:00	online	Coaching Q&A
9.11	Tue	15.30 -17:00	online	Coaching 2
12.11	Fri	11:30 - 13:00	W3.2.01	Lecture BPM
16.11	Tue	**14.00 -18:00**	W2.2.01	Aseco Workshop
19.11	Fri	11:30 - 13:00	online	Coaching 3
23.11	Tue	15.30 -17:00	W2.2.01	Lecture BPM
26.11	Fri	11:30 - 13:00	W3.2.01	BPMN Exercice
30.11	Tue	15.30 -17:00	W2.2.01	BPMN Workshop
3.12	Fri	11:30 - 13:00	online	Coaching Q&A
7.12	Tue	15.30 -17:00	W2.2.01	Lecture BPM
10.12	Fri	11:30 - 13:00	online	Coaching 4
14.12	Tue	15.30 -17:00	W2.2.01	Lecture BPM
17.12	Fri	11:30 - 13:00	online	Coaching 4
21.12	Tue	15.30 -17:00	W2.2.01	Lecture BPM
24.12	Fri			
28.12	Tue			
31.12	Fri			
4.1	Tue			
7.1	Fri			
11.1	Tue	15.30 -17:00	online	FAQ Presentation
14.1	Fri	11:30 - 13:00	W3.2.01	Lecture Summary
18.1	Tue	15.30 -17:00	W2.2.01	Lecture Summary
21.1	Fri	11:30 - 13:00	W3.2.01	Final Presentation
25.1	Tue	15.30 -17:00	W2.2.01	Final Presentation
28.1	Fri	11:30 - 13:00	W3.2.01	Feedback

Code of Conduct for online Teaching

[Link to the Code of Conduct for online Teaching](#)

Additional Information

Communication:

In support of this course, an e-learning platform will be used which offers several advantages. Firstly, teaching material will be made available via this platform. Secondly, questions that might arise can be discussed among the students through the use of this platform. Finally, general questions can be

answered transparently by the lecturer, i.e. all students will be able to see the answers. For specific questions, you may always contact the lecturer in person or via email.

Organization of the student team work:

- The instructions for the presentation are given during class. The presentation needs to be prepared in groups.
- Students must attend all presentations and discussions of the team work, too, as they are relevant to the exam as well.
- More details regarding organisation will be announced during class.