

Field of study - engineering

Module Description IPE EO&BM

Official data						
Course of studies	Field of study			Specialisation		
International Program in Engineering	Production Systems Engineering			-		
Describtion of module		Language	No. of mod	No. of module		Responsible person of module
Engineering Operations & Business Management		English	T3IPE0002		0002 Dr. Kallis Marina Hettrich Dmitri Vnukov	
Engineering Operations & Business Management						

Placement of modules on studies				
Semester	Precondition for participation	Type of module	Duration of module	
1.	- no formal -	Local Profile Module	1 Semester	

Used learning and examination methods					
Teaching and learning methods	Examination performance	Graded yes/no	Duration of examination		
Methods: Lecture, Case Study, Seminar	 Exam (written) and/or Rated Seminar 	• yes	• 120 min		

Workload and ECTS				
Workload (per h, a multiple of 30)	In total: (divided in)	150 h	ECTS: 5	
	1.Attendance time (lecture and examination time)		-	
	2. self-study	90h	-	

Intention of qualifications and co	mpetences
Professional qualifications:	 Define, plan, execute and control projects with a technical background Identify, analyze, model, control and redesign processes Understand qualityto be a key factor in business success Learn about key concepts, methods, processes, technologies, and systems in project management, process management, and quality management Understand the importance of project-related and process-related data, and how to use this data for engineering management Learn about basics of business management in international context Case studies give an idea of key success factors and common pitfalls
Social and ethical competence:	 Understand how to solve problems in engineering management and with integrated projects within an interdisciplinaryteam of experts by applying a process-oriented view.
Personal competence:	 Improve problem solving skills by understanding systematic and process- oriented approaches as well as by applying engineering competencies.
Comprehensive professional competence:	 Apply and combine knowledge in engineering, computer sciences, math, and economics in order to solve problems and to support decisions
Feature	
Prerequisites:	

- Principles of math, statistics, computer science



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Teaching and learning units		Attention time	dance (h)	self- study(h)
(teaching and unit 1):	learning	Monitoring of industrial processes 25		40
English Term:		Monitoring of industrial processes		
Content (non-bi	nding guideli	ine)		
- Data Ar	alytics Conc	repts		
	g visual analy			
		ation Methods		
•		ware (Tableau)		
	ation Proces			
-		o Enhance Data		
		Analytical Environment		
	asnboardsto	o Create Insights		
Literature	TablaauVau	ur Datal Fact and Fact Mayol Analyzia with Tableau Software		
		ur Data! Fast and Easy Visual Analysis with Tableau Software splayof Quantitative Information		
		shboard Design: The Effective Visual Communication of Data		
		Numbers: Designing Tables and Graphs to Enlighten.		
		with Data: A Data Visualization Guide for Business Professionals		
	eterytering			
(teaching and unit 2):	learning	Project Management	25	40
	learning	Project Management Project Management	25	40
unit 2): English Term:		Project Management	25	40
unit 2): English Term: Content (non-bi - Goals a	nding guideli nd challenge	Project Management ine) es in project management	25	40
unit 2): English Term: Content (non-bi - Goals a - Case s	nding guideli nd challenge udy: why pro	Project Management ine) es in project management jects fail? Problems and solutions	25	40
unit 2): English Term: Content (non-bi - Goals a - Case s - PM: evo	nding guideli nd challenge udy: why pro plution of app	Project Management ine) es in project management jects fail? Problems and solutions proaches to getting things done	25	40
unit 2): English Term: Content (non-bi - Goals a - Case s - PM: eva - Key su	nding guideli nd challenge udy: why pro plution of app ccess factors	Project Management ine) es in project management jects fail? Problems and solutions proaches to getting things done s in AGILE and SCRUM	25	40
unit 2): English Term: Content (non-bi - Goals a - Case s - PM: eve - Key sue - Skills a	nding guideli nd challenge udy: why pro plution of app ccess factors nd competen	Project Management ine) es in project management jects fail? Problems and solutions proaches to getting things done s in AGILE and SCRUM ncies of a project manager	25	40
unit 2): English Term: Content (non-bi - Goals a - Case s - PM: eve - Key sud - Skills a - Leading	nding guideli nd challenge udy: why pro plution of app ccess factors	Project Management ine) es in project management jects fail? Problems and solutions proaches to getting things done s in AGILE and SCRUM ncies of a project manager	25	40
unit 2): English Term: Content (non-bi - Goals a - Case s - PM: eve - Key sud - Skills a - Leading Literature	nding guideli nd challenge udy: why pro olution of app ccess factors nd competen g change prin	Project Management ine) es in project management jects fail? Problems and solutions proaches to getting things done in AGILE and SCRUM ncies of a project manager nciples in PM		
unit 2): English Term: Content (non-bi - Goals a - Case s - PM: eve - Key sud - Skills a - Leading Literature - Eliyahu	nding guideli nd challenge udy: why pro- olution of app ccess factors nd competen g change prin M. Goldratt (Project Management ine) es in project management jects fail? Problems and solutions proaches to getting things done s in AGILE and SCRUM ncies of a project manager nciples in PM Critical chain https://www.amazon.com/Critical-Chain-Eliyahu-M-Goldratt/dp/08		
unit 2): English Term: Content (non-bi - Goals a - Case s - PM: eve - Key sud - Skills a - Leading Literature - Eliyahu - PMBOK	nding guideli nd challenge udy: why pro olution of app ccess factors nd competen g change prin M. Goldratt (Guide http://	Project Management ine) es in project management jects fail? Problems and solutions proaches to getting things done s in AGILE and SCRUM acies of a project manager aciples in PM Critical chain https://www.amazon.com/Critical-Chain-Eliyahu-M-Goldratt/dp/08 //www.pmi.org/		
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unit 2): English Term: Content (non-bi - Goals a - Case s - PM: eve - Key sud - Key sud - Skills a - Leading Literature - Eliyahu - PMBOK - AGILE - SCRUM - Barbee Compe	nding guideli nd challenge udy: why pro- olution of app ccess factors nd competen g change prin M. Goldratt (Guide http:// manifesto htt 1 guides http: Davis Agile p titive/dp/160-	Project Management ine) es in project management ijects fail? Problems and solutions broaches to getting things done a in AGILE and SCRUM incies of a project manager inciples in PM Critical chain https://www.amazon.com/Critical-Chain-Eliyahu-M-Goldratt/dp/08 //www.pmi.org/ tp://agilemanifesto.org/ ://www.scrumguides.org/ bractices for waterfall projects https://www.amazon.com/Agile-Practices-Water	3842715 fall-Proje	36 ects -
unit 2): English Term: Content (non-bi - Goals a - Case s - PM: eve - Key suc - Skills a - Leading Literature - Eliyahu - PMBOK - AGILE - SCRUM - Barbee Compe - Tom De	nding guideli nd challenge udy: why pro- olution of app ccess factors nd competen g change prin M. Goldratt (Guide http:// manifesto htt 1 guides http: Davis Agile p titive/dp/1604	Project Management ine) es in project management ijects fail? Problems and solutions broaches to getting things done in AGILE and SCRUM incies of a project manager inciples in PM Critical chain https://www.amazon.com/Critical-Chain-Eliyahu-M-Goldratt/dp/08 //www.pmi.org/ tp://agilemanifesto.org/ ://www.scrumguides.org/ critices for waterfall projects https://www.amazon.com/Agile-Practices-Water 4270837 lline: A novel about project management https://www.amazon.com/Deadline-N	3842715 fall-Proje	36 ects-
unit 2): English Term: Content (non-bi - Goals a - Case s - PM: eve - Key sue - Skills a - Leading Literature - Eliyahu - PMBOK - AGILE - SCRUM - Barbee Compe - Tom De Project	nding guideli nd challenge udy: why pro- olution of app ccess factors nd competen g change prin M. Goldratt (Guide http:// manifesto htt I guides http: Davis Agile p titive/dp/1604 Marco Dead Managemer	Project Management ine) es in project management ijects fail? Problems and solutions broaches to getting things done a in AGILE and SCRUM acies of a project manager aciples in PM Critical chain https://www.amazon.com/Critical-Chain-Eliyahu-M-Goldratt/dp/08 //www.pmi.org/ tp://agilemanifesto.org/ ://www.scrumguides.org/ bractices for waterfall projects https://www.amazon.com/Agile-Practices-Water 4270837	3842715 fall-Proje	36 ects -
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(teaching and learning unit 3):	International Business	10	10	
English Term:	International Business			
Content (non-binding guideline)				
As a result of this course, the students should be familiar with:				
- National Differences in Socio-Economic Systems, Economic Development and Culture				
- Principles and Practice of International Marketing				
- The Global Trade and Investment Environment				
- The Export and Import order process				



Baden-Württemberg Cooperative State University

Field of study - engineering

Module Description IPE EO&BM

- International Transport
- Custom Controls
- Risk Management
- International Payment
- Global Monetary System
- Global Entrepreneurship

Literature

Sherlock, Reuvid: The Handbook of International Trade, A Guide to the Principles and Practice of Export, 2nd edition, 402 pages, ISBN-13:978-1846730344

Hill, Charles and Hult, Thomas: International Business: Competing in the Global Marketplace, 12th Edition, ISBN-13: 978-1259929441