Syllabus

Name:							
Advanced Operations & Logistics Management							
Responsible:							
Professor Richard Pibernik, Chair of Logistics and Quantitative Methods							
Program:		Туре:	Term:		ECTS:		
Master		Lecture	Summer		6 CP		
Contents & Objectives:							
This lecture equips students with important, relevant practical methods and tools in Operations/Logistics Management. The understanding and application of modern analytical approaches used by manufacturing and service companies is the core of this lecture. Particular concentration is placed on matching supply with demand in a volatile environment.							
Among others, the following topics are discussed: Forecasting, Inventory & Capacity Management under uncertainty, Revenue Management, Integrated Sales & Operations Planning. The analytical approaches are illustrated based on planning problems in practice and their understanding is deepened with case studies, simulations, etc. Moreover, specific management problems in applying these approaches are examined.							
Prerequisites:							
The course is designed for students in the Master's program with a basic knowledge of production and logistics and working knowledge in quantitative methods and statistics. International exchange students from Bachelor programs may attend this course if they have good quantitative skills and some background in production and logistics.							
Wook	Contont						
1	Content						
2				505			
	 fundamentals Time series models for stationary demand 						
3	II Forecasting (cont.)						
	- Models - Extensio - Case	with trend, seasonal ons	ity				
4	III Consensus Forecasting & Integrated Sales and Operations Planning (S&OP)						
5	IV Inventory Mar	nagement under unce	ertainty				
	- Introdu - Newsve	ction ndor Model					
6	IV Inventory Mar	nagement under unce	ertainty (cont)				
	- Perform - Multi-P - Cases	nance Measures eriod models (QR-, sS	S-Policies)				
7	V Capacity Mana	gement under uncer	tainty				
	- Fundam - Introdu	nentals ction to Queuing The	ory				
8	V Capacity Mana	gement under uncer	tainty (cont)				
	- Queuin	g Theory continued					

	- Case/Simulation Benihana			
9	VI Order Fulfillment			
10	VII Revenue Management			
11	VIII Further Concepts			
12	Wrap-up, Q&A			
Literature:				
[1] A pao van Mieg chapter	kage of reading materials (consisting of chapters from different Textbooks like Cachon/Terwiesch, shem, Nahmias, etc., and practice-oriented articles) will be made available on WueCampus for every	, /		

[2] Various case studies (Wilkins, Leitax, L.L. Bean, Paper and More, Benihana, and others)

Grading:

60-minute final written exam + optional bonus assignment

Contact:

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