Syllabus

Decisi			
Decisi	on Support Systen	ns	
Responsi	ble:		
Professo	r Christoph M. Flath, Assis	stant Professor for Operations	Management
Programme:		Term:	ECTS:
Master		Winter	5
Contents	& Objectives:		i
After such • • • • • • • • • • • • •	are leveraged to design an ccessfully completing the o Understand the structure Isolate key elements from models Solve different classes of stochastic) Implement spreadsheet-b se loosely builds on top o	nd implement decision support course, students should be able of classic business decision pro a general problem descriptions optimization problems (linear, pased decision support systems	oblems and convert them to quantitative decision network, integer, multi-objective, non-linear,
	-	mming" by Birge and Louvreau	ux as well as "Mathematical Applications for the
Manager Prerequis	ment, Life, and Social Scien	-	ux as well as "Mathematical Applications for the nolds.
Manager Prerequis	ment, Life, and Social Scien ites: e is designed for Master stud	mming" by Birge and Louvreaunces" by Harshbarger and Reyr	ux as well as "Mathematical Applications for the nolds.
Manager Prerequise The course	ment, Life, and Social Scien ites: e is designed for Master stud	mming" by Birge and Louvreaunces" by Harshbarger and Reyr	ux as well as "Mathematical Applications for the nolds.
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Manager Prerequise The course Course St Week 1-3	ment, Life, and Social Scient ites: e is designed for Master stud ructure: Content Linear Programming	mming" by Birge and Louvreaunces" by Harshbarger and Reyr	ux as well as "Mathematical Applications for the holds. h quantitative methods. Literature / Chapter Ch. 1-3
Manager Prerequise The course Course St Week 1-3 4	ment, Life, and Social Scient ites: e is designed for Master stud ructure: Content Linear Programming Sensitivity Analysis	mming" by Birge and Louvreau nces" by Harshbarger and Reyr dents with a working knowledge ir	Literature / Chapter Ch. 1-3 Ch. 4
Manager Prerequise The course Course St Week 1-3 4 5-6	ment, Life, and Social Scient ites: e is designed for Master stud ructure: Content Linear Programming Sensitivity Analysis Network Modeling	mming" by Birge and Louvreau nces" by Harshbarger and Reyr dents with a working knowledge ir	Literature / Chapter Ch. 1-3 Ch. 4 Ch. 5
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Manager Prerequise The course Course St Week 1-3 4 5-6 7 8-9	ment, Life, and Social Scient ites: e is designed for Master stud ructure: Content Linear Programming Sensitivity Analysis Network Modeling Stochastic Programming (Mixed) Integer Program	mming" by Birge and Louvreau nces" by Harshbarger and Reyr dents with a working knowledge in g ming tiple Objective Optimization	Literature / Chapter Ch. 1-3 Ch. 4 Ch. 5 Birge & Louvreaux Ch. 6
Manager Prerequise The course Course St Week 1-3 4 5-6 7 8-9 10	ment, Life, and Social Scient ites: e is designed for Master stud ructure: Content Linear Programming Sensitivity Analysis Network Modeling Stochastic Programming (Mixed) Integer Program Goal Programming, Mul	mming" by Birge and Louvreau nces" by Harshbarger and Reyr dents with a working knowledge in g ming tiple Objective Optimization	Literature / Chapter Ch. 1-3 Ch. 4 Ch. 5 Birge & Louvreaux Ch. 6 Ch. 7

## Literature:

[1] Ragsdale, Cliff T. Managerial decision modeling. South-Western, Cengage Learning, 2011.

Exam:

60-minute final written exam

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