## **Course Catalogue Engineering and ICT**

## **EXCHANGE PROGRAMME**

Process Optimization 2025 - 2026



Course sur				
VOE Code: EDP			evel: Bachelor's degree (full-time	
Course Title	Project Process Optimization + Six Sigma			
Туре	Compulsory			
Learning				
competences	The student demonstrates the ability to	transform company	arablem into a	
Learning outcomes	design/implementation/monitor assignment through analysis in a Process optimization (PO) context. A reliable and valid research is conducted based on PO models. The research leads to a diagnosis in which the root causes of the problem are identified. Different solutions are compared and the choice of a definite solution is substantiated. The definitive solution is worked out in cooperation with stakeholders. The student knows how to convince stakeholders of the final advice.  The student explains how the learning experience from the project contributes to personal development.			
Course content	Throughout the project the student applies project management skills.  Doing research into the quality of a business process and to find improvements in a			
Diamand	structured way.			
Planned	Students work in small project groups o	n an improvement pro	oject in a company.	
learning activities				
and teaching				
methods				
Recommended	Gitlow, Levine (2012). Six Sigma for Gre	en Relts and Chamni	ons I Inner Saddle River New	
or required	Jersey, USA: Financial Times Press (Pea		ono. Opper dudate mvor, rvew	
reading and	Jordey, Cork. Financial Financial	113011)		
other learning				
resources /				
tools				
Prerequisites	You are required to have two years of Ba	achelor's study experi	ence in a relevant field and	
and co-	English-language skills at B2 level.			
requisites				
Level	Advanced			
Grading scale	1 up to 10, 1 dec.	T	T	
Assessment	Type of assessment	Grade	Criteria	
methods and criteria	P1 Project Process Optimization	weighting 0,7	Higher or equal to 5.5	
Cillella	P2 PPO Theme	0,7	Higher or equal to 5.5	
	T1 PPO Six Sigma		Higher or equal to 5.5	
Language of	-	0,3	Trigiler of equal to 5.5	
Language of Instruction	English			
Name of lecturer	For information about the lecturers you can contact Paul Touw			
Mode of delivery	Face to face			

Course content   Cour	Course sumi	mary			
Course Title   Lean/QRM   Type   Optional   Learning   competences   Learning   (QRM) and is able to identify the characteristics of Lean and Quick Response Manufacturing (QRM) and is able to identify the implications when implementing in practice and managing the operation with Lean and QRM.   In many organizations numerous improvement projects are started. The projects tie up people for considerable amounts of time on top of their normal responsibilities. Each individual project assesses a current problem within the organization as a whole. The question is, is there also improvement in the bottom-line performance of the organization after completing a project. If there is no process to address the constraint in the organization, there is also no focus which areas should be addressed.    In this course you will learn to setup a process to address the constraint in the organization and increase the performance of an organization as a whole using Lean, Value Stream Mapping and Quick Response Manufacturing Tooling.    Planned learning			Level	l: Bachelor's degree (full-time)	
Type   Optional		•			
Learning competences Learning   The student is able to identify the characteristics of Lean and Quick Response Manufacturing (QRM) and is able to identify the implications when implementing in practice and managing the operation with Lean and QRM. In many organizations numerous improvement projects are started. The projects tie up people for considerable amounts of time on top of their normal responsibilities. Each individual project assesses a current problem within the organization as a whole. The question is, is there also improvement in the bottom-line performance of the organization, there is also no focus which areas should be addressed.  In this course you will learn to setup a process to address the constraint in the organization, there is also no focus which areas should be addressed.  In this course you will learn to setup a process to address the constraint in the organization and increase the performance of an organization as a whole using Lean, Value Stream Mapping and Quick Response Manufacturing Tooling.  Planned learning					
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requisites       Level     Advanced       Grading scale     1 up to 10, 1 dec.       Assessment methods and criteria     Type of assessment     Grade weighting     Criteria       P1 Lean/QRM     1     Higher or equal to 5.5       Language of Instruction     English       Name of lecturer     For information about the lecturers you can contact Paul Touw	•	-		ice in a retevant neta ana	
Advanced   Grading scale   1 up to 10, 1 dec.		Ziigiioii taiigaago siittio at B2 tovoti			
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methods and criteria     weighting       P1 Lean/QRM     1     Higher or equal to 5.5       Language of Instruction     English       Name of lecturer     For information about the lecturers you can contact Paul Touw	Grading scale				
methods and criteria     weighting       P1 Lean/QRM     1     Higher or equal to 5.5       Language of Instruction     English       Name of lecturer     For information about the lecturers you can contact Paul Touw	Assessment	Type of assessment	Grade	Criteria	
Language of Instruction  Name of Instruction  For information about the lecturers you can contact Paul Touw	methods and		weighting		
Instruction  Name of lecturer  For information about the lecturers you can contact Paul Touw	criteria	P1 Lean/QRM	1	Higher or equal to 5.5	
lecturer		English			
		For information about the lecturers	s you can contact Paul Touw		
mode of delivery   Face to face	Mode of delivery	Face to face			

Course sun	nmary		
VOE Code: EDA	PS.21 ECTS credits: 5 Level: Bachelor's degree (full-time)		
Course Title	Advanced Planning & Scheduling		
Туре	Optional		
Learning competences			
Learning	Objectives:		
outcomes	The student shows how to apply planning and scheduling as forms of decision-making to play an important role in manufacturing and services industries. Detailed course objectives: see study guide.		

Course content	Lectures and main topics			
	Advanced Planning and Scheduling is an introduction to advanced planning and scheduling techniques. The course delves into advanced analysis and calculation techniques. These techniques aid in optimizing production and planning schedules, sales and operations management, economic lot sizing and the construction of reservation systems and personal rosters. The course requires a basic understanding of the use of heuristics and simple linear programming techniques.			
	The main topics of the course are:			
	<ul> <li>Sales and Operatins, Manufacturing models, NP Hard problems and Dispatching rules</li> <li>Characteristics of service industries, Project planning and scheduling.</li> <li>Linear Programming, Shifting Bottleneck Heuristic, Simulated Annealing, Tabu- and Beam Search</li> <li>Economic Lot Scheduling</li> <li>Interval scheduling, Reservation systems and time tabling, Personnel scheduling problems</li> </ul>			
Planned learning activities and teaching	<ul><li>Courses</li><li>Assignments</li></ul>			
methods Recommended	Pinedo, Michael L. ().			
or required	Planning and Scheduling in Manufacturing and Services. : Springer			
reading and	r tarming and Scheddling in mandracturing and Services Springer			
other learning				
resources /				
tools				
Prerequisites	You are required to have two years of Bachelor's study experience in a relevant field and			
and co- requisites	English-language skills at B2 level.			
Level	Advanced			
Grading scale	1 up to 10, 1 dec.			
Assessment	Type of assessment Grade Criteria			
methods and	weighting			
criteria	T1 Advanced Planning & Schedule 1 Higher or equal to 5.5			
Language of Instruction	English			
Name of lecturer	For information about the lecturers you can contact Paul Touw			
Mode of delivery	Face to face			

Course summary				
VOE Code: EDCS	SK.24	ECTS credits: 5	Level: Bachelor's degree (full-time)	
Course Title	Consultancy Skills			
Туре	Optional			
Learning				
competences				
Learning	The student is able to use consultancy skills (a combination of research & analysis methods,			
outcomes	advisory skills and appropriate project management skills) to enter into a change process with an external or internal client in which the underlying customer question or organizational problem is clarified and the appropriate solution-oriented change process is designed is based on provided (study) cases			

Course content	This course helps you to develop effective consultancy and communication skills. The aim of		
	this course is to challenge you to examine the assumptions and interpretations you have about		
	yourself and others. It helps you to examine the way you communicate to become		
	more effective in getting your message across as a consultant.		
Planned	<ul> <li>Lectures</li> </ul>		
learning	Coaching		
activities			
and teaching			
methods			
Recommended			
or required			
reading and			
other learning			
resources /			
tools			
Prerequisites	You are required to have two years of Bachelor's study experience in a relevant field and		
and co-	English-language skills at B2 level.		
requisites			
Level	Advanced		
Grading scale	1 up to 10, 1 dec.	T-	
	Type of assessment	Grade weighting	Criteria
Assessment	P1 Consultancy Skills Portfolio	1	Higher or equal to 5.5
methods and	P2 Consultancy Skills Assessment	1	Higher or equal to 5.5
criteria	P3 Consultancy skills - Attendance	0	Higher or equal to 5.5
Language of Instruction	English	·	
Name of	For information about the lecturers you can contact Paul Touw		
lecturer			
Mode of delivery	Face to face		

Course sum	nmary			
VOE Code: EDAS	SIM.24 ECTS credits: 5 Level: Bachelor's degree (full-time)			
Course Title	Advanced Simulation			
Туре	Optional			
Learning competences				
Learning outcomes	A student analyzes and designs business processes in a simulation of an industrial environment using learned methods and provides advice based on the results of the simulation and validates with the case. The advice is substantiated with relevant matters from Operations Management.			
Course content	Theory  Simulation: what, why and when? Inside simulation software. Simulation studies: an overview. Conceptual modelling. Developing the conceptual model. Data collection and analysis. Model coding. Experimentation: obtaining accurate results. Experimentation: searching the solution space. Implementation. Verification, validation and confidence.			

	To the original and the		
	Tutorial layout.		
	Enterprise Dynamics background.		
	First contact with Enterprise Dynamics.		
	Model building basics.		
	<ul> <li>Analysing the results.</li> </ul>		
	Playing with strategies.		
	After the introduction to Siemens Plant Simulation	n the student will	perform several case studies.
Planned	<ul> <li>Lectures</li> </ul>		
learning	<ul> <li>Practicals</li> </ul>		
activities			
and teaching			
methods			
Recommended	Software: Siemens Plant Simulation		
or required			
reading and			
other learning			
resources /			
tools			
Prerequisite	You are required to have two years of Bachelor's study experience in a relevant field and		
s and co-	English-language skills at B2 level.		
requisites			
Level	Advanced		
Grading scale	1 up to 10, 1 dec.		
Assessment	Type of assessment	Grade	Criteria
methods and		weighting	
criteria	P1 Simulation	1	Higher or equal to 5.5
Language of	English		
Instruction			
Name of	For information about the lecturers you can contact Paul Touw		
lecturer			
Mode of delivery	Face to face		