Short Courses Program Structure

What makes Short Courses at RWTH special

Experiencing international teaching, a career boost and fun at the same time!



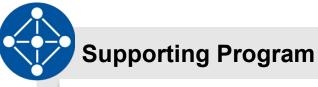
Lectures

Exercises

Hands-on Case Studies

Learning Platform





Institute/Company Visit(s)

Excursions

Lab Tours

Expert Talks





(Virtual) Social Events

City Trips / Exploring Aachen

Mentor Program

Career Center







"Agile Innovation" Online Winter Course



Academic Content

Product Ergonomics

Design Methodology

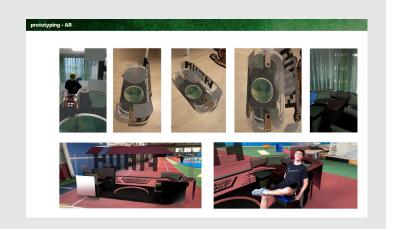
Sustainable Product Planning

User Centric Value

Agile Product Design

In this Online Course students

- gain insights into cutting-edge methods and processes of agile product innovation
- make use of virtual product design tools like
 CAD and implement rapid prototyping strategies
- analyze and improve existing real-life products
- learn about market research & product life-cycles













Tentative weekly schedule

Online Course "Agile Innovation"

Week 1 - Japanese time zone (UTC +9)

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
TIME	Feb 27	Feb 28	March 01	March 02	March 03	March 04	March 05
9:30-10:00 10:00-10:30 10:30-11:00		L00 - Strategies in Sustainable Product Planning and	L01 - Product disassembly and structural analysis	L03 - Function based design	L05 - Product architecture	L07 - Generation of solution principles	
11:00-11:30 11:30-12:00 12:00-12:30		Requirements Engineering E00 - Self Introduction	L02 - Product ergonomics and behavior	L04 - Functional analysis	L06 - Synthesis of solution principles	L08 - Intro to sustainable design	
12:30-13:00 13:00-13:30 13:30-14:00							Free time for self-study
14:00-14:30 14:30-15:00 15:00-15:30							
15:30-16:00 16:00-16:30 16:30-17:00							
17:30-17:00 17:30-18:00 18:00-18:30		Welcome Orientation	E01 - Product ergonomics and behavior / Product detachment	E02 - Requirement Analysis	E03 - Function based design	E05 - Product architecture	Escape Room
18:30-19:00		Break		Break			
19:00-19:30 19:30-20:00		Digital City Tour of Aachen		Intercultural meet-up	E04 - Functional analysis	E06 - Solution principle	
20:00-20:30 20:30-21:00							



Prof. Dr. Manuel Löwer & Dr. Tim Katzwinkel

Institute for Machine Elements and Systems Engineering

Research areas: Product Innovation, Product Quality, Machine Design

legend:	live events	asynchronous learning			
	live lectures via Zoom		pre-recorded lectures: to be prepared before respective live lectures		
	live conduction of experiments		self-study according to individual needs		
	live organizational and social events via Zoom				





Tentative weekly schedule

Online Course "Agile Innovation"

Week 2 - Japanese time zone (UTC +9)

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
TIME	March 06	March 07	March 08	March 09	March 10	March 11	March 12
9:30-10:00							
10:00-10:30							1
10:30-11:00		LOO Agilo Mothodo	Agile Development Sprint	Agile Development Sprint			1
11:00-11:30		L09 - Agile Methods	Creating User Value I	Creating User Value II			1
11:30-12:00							
12:00-12:30							
12:30-13:00							
13:00-13:30							
13:30-14:00							
14:00-14:30							
14:30-15:00	Free time for						
15:00-15:30	self-study						
15:30-16:00							
16:00-16:30							
16:30-17:00							
17:00-17:30						Study at RWTH	
17:30-18:00		E07 - Product innovation	Sprint Planning	Sprint Planning	Final Sprint	Info-Event	
18:00-18:30			Moderation	Sprint 2		Break	
18:30-19:00			Team Communication	Op.iii. 2	Deculte precentation	Farewell Event	
19:00-19:30		E08 - CAD introduction	Review Planning	Sprint Review	Results presentation		
19:30-20:00							
20:00-20:30							
20:30-21:00							



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