

AGILE INNOVATION: PRODUCTION DESIGN MEETS ENGINEERING



Agile Innovation: Product Design meets Engineering Engineering Summer School

Our Summer School courses in Mechanical Engineering and Management offer international students the opportunity to take part in excellent science and research at RWTH Aachen University. The University is highly acclaimed internationally for its development of innovative answers to the most pressing global challenges. As a result, numerous research institutions, companies, R&D departments and start-ups have settled in and around Aachen, making RWTH the ideal setting for aspiring students.



Program Objective

The core area of study of the Summer School is agile innovation. The lectures provide students with insights into cutting-edge methods and processes of product innovation and development including conventional and agile methods using rapid prototyping technologies. A case study featuring the analysis and improvement of real life products complements the program.



Applicant's Profile

This program is specifically tailored for B.Sc./B.E. students enrolled at top universities. Applicants need proficient knowledge of the English language and should be studying Mechanical Engineering or a related field. Completion of the first academic year is mandatory. The minimum age to participate is 18 years.



Application Information

We will evaluate applications based on the cover letter, the completion of the special requirements of each program, the overall strength of your academic record, and extracurricular experiences.



Academic Staff

The Summer School is conducted by a visiting professor of Bergische Universität Wuppertal, who worked at RWTH Aachen University for several years. The professor is well connected within research and the industry, allowing for a unique teaching experience covering the best of both worlds.



Quickfacts

Study format	Summer School
Qualification	Certificate
Language	English
Course Fees*	EUR 1,990
Duration	2 weeks
Workload	60 Teaching Units

*All Summer Schools are co-funded by the RWTH International Academy in cooperation with RWTH Aachen University.



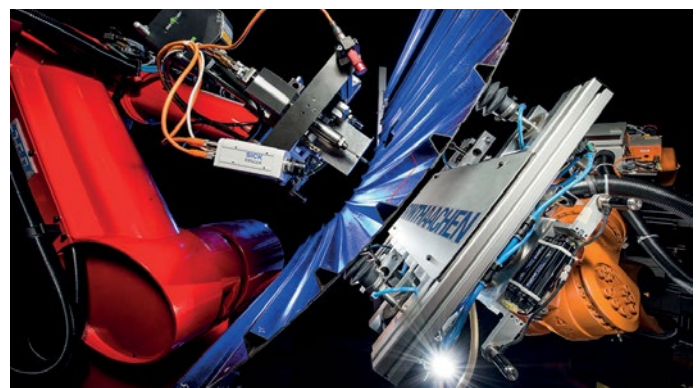
Academic Content

Modules: Lectures and Exercises	Teaching Units
Strategies in Product Planning and Requirements Engineering	2
Requirements Analysis	2
Function Based Design	2
Functional Analysis	2
Product Architecture	2
Product Disassembly and Structural Analysis	2
Synthesis of Solution Principles	2
Generation of Solution Principles	2
Project: Goal Definition and Concept Development	2
Concept Evaluation and Rating	6
Project: Concept Development	2
Principles of Embodiment Design	2
Project: Engineering Design	2
Project: Final Concepts and Action Plan	2
CAD Modelling and Methods	2
Inspection and Assembly of 3D-Printed Parts	2
Scientific Documentation and Presentation	6
Project: Documentation and Presentation	2
Presentation and show session: Final concepts	6
Cave Event / Holodeck - VPE	6
Modules: Company Visits and Culture	Teaching Units
Intercultural Workshop	4
Sum of Teaching Units	60



RWTH Aachen University

RWTH Aachen University is one of Germany's universities of excellence. It is a place where the future of our industrialized world is thought out. The university is proving to be a popular spot with increasing international recognition where innovative answers to global challenges are developed.



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