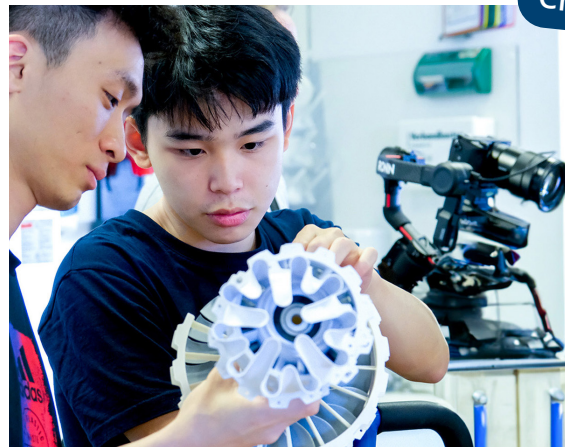Optimize production by considering materials, AI and smart factory concepts!

Production Technology meets Industry 4.0

Check out our website!

Expect these Contents

Explore fundamental areas of Industry 4.0 and acquire a better understanding of current and future requirements in production technology. Learn about Internet of Things and Internet of Production, discuss the role of robotics in automation and consider aspects of human-machine interaction. By considering different aspects of artificial intelligence you dive deep into the concept of smart factory.

- Experience the production chain with real-life machines and learn how to plan the layout of modern factories

- Gain valuable insights into Industry 4.0 technologies to improve human-machine interaction and succeed in future work places

- Understand artificial intelligence, big data and data mining

- Visit the „Smart Automation Lab" to see robots in action

- Work with various materials and lightweight design

Summer School

📅 **July 13 - August 2, 2025 (3 weeks)**

💶 **3,350 €**

🖥 **On-campus**

👥 **Supporting Program**

🎖 **RWTH Certificate with 4 ECTS (approx. 100 hours)**

🏠 **Accommodation included**

Production Technology meets Industry 4.0 in reality

Our long-standing partner, Henkel, is known for producing entirely according to the principles of Industry 4.0, having perfected the concept of smart factories. In past years, a visit to one of their state-of-the-art production facilities was a program highlight, offering insights into their cutting-edge processes.

INTERNATIONAL ACADEMY | **RWTH AACHEN UNIVERSITY**

Production Technology meets Industry 4.0 – Summer School*

TIME (CEST)	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
08:00 - 08:30							
08:30 - 09:00					Company Visit		
09:00 - 09:30		Pick up	Automation	Introduction & IT			
09:30 - 10:00		Welcome Orientation					
10:00 - 10:30							
10:30 - 11:00						RWTH Campus Tour	
11:00 - 11:30							
11:30 - 12:00							
12:00 - 12:30							
12:30 - 13:00		Lunch Break				Lunch Break	
13:00 - 13:30							
13:30 - 14:00	Individual arrival	Get to know Aachen City Rally	Smart Factory	Automation		IT	Free time for excursions, sight-seeing and 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							
17:00 - 17:30							
17:30 - 18:00							
18:00 - 18:30				Barbeque			
18:30 - 19:00							
19:00 - 19:30							
19:30 - 20:00							
20:00 - 20:30							
20:30 - 21:00							

- ■ Organizational and social event
- ■ Lecture, academic program
- ■ Academic supporting program (institute/company visit, scheduled self-study, group work, case study, project work)

*Exemplary Schedule (Information presented is subject to change. Errors and omissions reserved)

INTERNATIONAL ACADEMY | RWTH AACHEN UNIVERSITY

Production Technology meets Industry 4.0 – Summer School*

TIME (CEST)	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
08:00 - 08:30							
08:30 - 09:00				City Trip			
09:00 - 09:30		Production Technology	IT	City Trip	Robotics	Material Science	
09:30 - 10:00		Production Technology	IT	City Trip	Robotics	Material Science	
10:00 - 10:30		Production Technology	IT Group Project	City Trip	Robotics	Material Science	
10:30 - 11:00		Production Technology	IT Group Project	City Trip	Robotics	Material Science	
11:00 - 11:30		Production Technology	IT Group Project	City Trip	Robotics	Material Science	
11:30 - 12:00		Production Technology	IT Group Project	City Trip	Robotics	Material Science	
12:00 - 12:30				City Trip			
12:30 - 13:00	Free time for excursions, sightseeing and self-study	Lunch Break	Lunch Break	City Trip	Lunch Break	Lunch Break	Free time for excursions, sightseeing and self-study
13:00 - 13:30	Free time for excursions, sightseeing and self-study			City Trip			Free time for excursions, sightseeing and self-study
13:30 - 14:00	Free time for excursions, sightseeing and self-study	Visit of the Institute	IT	City Trip	Robotics	Visit of the Institute	Free time for excursions, sightseeing and self-study
14:00 - 14:30	Free time for excursions, sightseeing and self-study	Visit of the Institute	IT	City Trip	Robotics	Visit of the Institute	Free time for excursions, sightseeing and self-study
14:30 - 15:00	Free time for excursions, sightseeing and self-study	Visit of the Institute	IT	City Trip	Workshop at the DCC	Visit of the Institute	Free time for excursions, sightseeing and self-study
15:00 - 15:30	Free time for excursions, sightseeing and self-study	Visit of the Institute	IT Group Project	City Trip	Workshop at the DCC	Visit of the Institute	Free time for excursions, sightseeing and self-study
15:30 - 16:00	Free time for excursions, sightseeing and self-study	Visit of the Institute	IT Group Project	City Trip	Workshop at the DCC	Visit of the Institute	Free time for excursions, sightseeing and self-study
16:00 - 16:30	Free time for excursions, sightseeing and self-study	Visit of the Institute	IT Group Project	City Trip	Workshop at the DCC	Visit of the Institute	Free time for excursions, sightseeing and self-study
16:30 - 17:00				City Trip			
17:00 - 17:30				City Trip			
17:30 - 18:00				City Trip			
18:00 - 18:30							
18:30 - 19:00							
19:00 - 19:30							
19:30 - 20:00							
20:00 - 20:30							
20:30 - 21:00							

- Organizational and social event
- Lecture, academic program
- Academic supporting program (institute/company visit, scheduled self-study, group work, case study, project work)

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Production Technology meets Industry 4.0 – Summer School*

TIME (CEST)	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
08:00 - 08:30							
08:30 - 09:00							
09:00 - 09:30		Smart Interfaces	Smart Interfaces	Smart Factory	Material Science	Preparation for Exam	
09:30 - 10:00							
10:00 - 10:30							
10:30 - 11:00						Final Exam	
11:00 - 11:30							
11:30 - 12:00							
12:00 - 12:30	Free time for excursions, sightseeing and self-study						Individual departure
12:30 - 13:00		Lunch Break					
13:00 - 13:30							
13:30 - 14:00		Smart Interfaces	Smart Interfaces	Hiking tour to the Border Tripoint	Material Science	Farewell Event	
14:00 - 14:30							
14:30 - 15:00							
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20:00 - 20:30							
20:30 - 21:00							

- **Organizational and social event**
- **Lecture, academic program**
- **Academic supporting program** (institute/company visit, scheduled self-study, group work, case study, project work)

*Exemplary Schedule (Information presented is subject to change. Errors and omissions reserved)