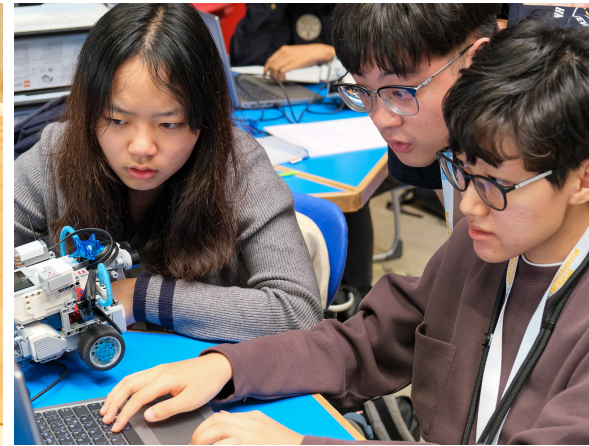
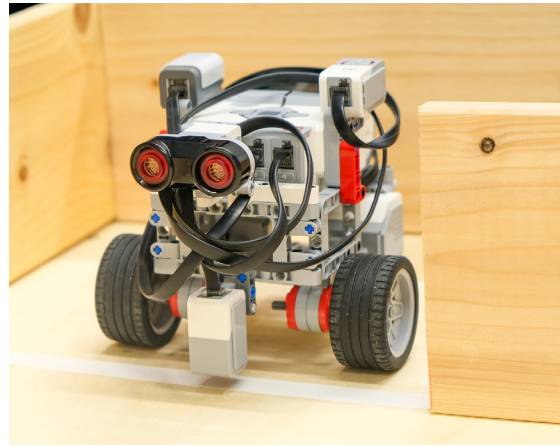


Build a robot with your teammates and win our contest!

Robotics & Communication Networks



Expect these Contents

In this Short Course, you get to program a robot education cell in a team and make your robot compete! Master the main areas of robotics: robotic systems, kinematics and dynamics. Study the history of information theory, understand challenges and focus on practical examples of solving problems in modern communication technology. Plus, you learn about mechatronics and how to change or add an element in order to ease innovation processes.

- Programm a robot education cell and its sensors with Java
- Come up with innovative changes to a real-life mechatronic systems by considering its fragmentation and functions
- Learn about the components and applications of robotic systems from industrial robots to lightweight robots
- See application examples of information theory and communication technology like power control in wireless networks

Quick Facts

 **2 weeks**

 **On-campus or blended**

 **RWTH Certificate with 3 ECTS (approx. 75 hours)**

 **Price upon request**

 **Supporting Program**

 **Accommodation included**

All programs can be customized with regards to duration, teaching format and content.

Blended Learning

This Short Course consists of two different phases. In the first stage, which will take place online, over a period of one week a preparatory unit will provide you with a range of theoretical contents to equip you with the necessary knowledge for the next part. In the second phase, you will travel to Germany to experience the practical part on campus for 2 weeks. This includes various visits to institutes and practical case studies based on the theory.



Robotics, Communication Networks Innovation (SEU) - 2025

TIME (CEST)	03 August Sunday	04 August Monday	5 August Tuesday	6 August Wednesday	7 August Thursday	8 August Friday	9 August Saturday	
08:00 - 08:30								
08:30 - 09:00								
09:00 - 09:30			Project Work Robo Scope					
09:30 - 10:00			Project Work Robo Scope					
10:00 - 10:30		Pick up & breakfast	Case Study Robo Scope	Case Study Robo Scope	Case Study Robo Scope	Project Work Robo Scope		
10:30 - 11:00			Case Study Robo Scope	Case Study Robo Scope	Case Study Robo Scope	Case Study Robo Scope		
11:00 - 11:30		Welcome Orientation	Case Study Robo Scope				Case Study Robo Scope	
11:30 - 12:00			Case Study Robo Scope				Case Study Robo Scope	
12:00 - 12:30		Lunch Break						
12:30 - 13:00		Lunch Break						
13:00 - 13:30		Lunch Break						
13:30 - 14:00			Case Study Robo Scope					
14:00 - 14:30			Case Study Robo Scope					
14:30 - 15:00	Collective arrival of participants	Get to know Aachen City Rally	Case Study Robo Scope	Case Study Robo Scope	Case Study Robo Scope	Self-study	Free time for excursions, sight-seeing and self-study	
15:00 - 15:30			Case Study Robo Scope	Project Work Robo Scope	Case Study Robo Scope	Self-study		
15:30 - 16:00				Project Work Robo Scope	Case Study Robo Scope	Self-study		
16:00 - 16:30				Project Work Robo Scope	Case Study Robo Scope	Self-study		
16:30 - 17:00								
17:00 - 17:30								
17:30 - 18:00								
18:00 - 18:30				BBQ				
18:30 - 19:00				BBQ				
19:00 - 19:30				BBQ				
19:30 - 20:00				BBQ				
20:00 - 20:30								
20:30 - 21:00								
21:00 - 21:30								
21:30 - 22:00								

Robotics, Communication Networks Innovation (SEU) - 2025

TIME (CEST)	10 August Sunday	11 August Monday	12 August Tuesday	13 August Wednesday	14 August Thursday	15 August Friday	16 August Saturday	
08:00 - 08:30								
08:30 - 09:00								
09:00 - 09:30								
09:30 - 10:00		IGMR			City Trip to Maastricht (The Netherlands)	Project Work Robo Scope		
10:00 - 10:30		IGMR	IGMR	INDA				
10:30 - 11:00								
11:00 - 11:30							Final Exam	
11:30 - 12:00								
12:00 - 12:30		Lunch Break						
12:30 - 13:00						Lunch Break		
13:00 - 13:30								
13:30 - 14:00								
14:00 - 14:30						Farewell		
14:30 - 15:00	Free time for excursions, sight-seeing and self-study	IGMR	INDA	INDA			Individual departure of participants	
15:00 - 15:30								
15:30 - 16:00								
16:00 - 16:30								
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