

# Artificial Intelligence in Industrial Applications (SEU) - Winter School 2024 on campus

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Week 1	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
Date	21 January	22 January	23 January	24 January	25 January	26 January	27 January	
Room		Manfred-Weck Haus	Manfred-Weck Haus	Manfred-Weck Haus	Manfred-Weck Haus	Manfred-Weck Haus		
08:00-08:30	Collective arrival						Free time for excursions, sight-seeing and self-study	
08:30-09:00					Pick-up			
09:00-09:30				Industry 4.0 + KDD Session 1	Python fundamentals and Jupyter Notebooks Programming Session 1	City Trip to Maastricht (The Netherlands)		Python: Data Visualization Programming Session 4
09:30-10:00								
10:00-10:30		Pick up						
10:30-11:00		Welcome Orientation	Industrial Internet of Things Session 2	Data Types and Coding Guidelines in Python Programming Session 2	Python: Interactive Exercise Programming Session 5			
11:00-11:30								
11:30-12:00		Lunch Break at Mensa Vita						Lunch Break at Mensa Vita
12:00-12:30								
12:30-13:00								
13:00-13:30		Pick up		Hands-On: Data Mining Session 3	Group Work			Group Work
13:30-14:00		Get to know Aachen City Rally						
14:00-14:30			WZL - Labtour	Python: Numpy und Pandas Programming Session 3	Theory Artificial Intelligence Session 4			
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								
18:30-19:00								
19:00-19:30								
19:30-20:00								
20:00-20:30								
20:30-21:00								

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Week 2	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Date	28 January	29 January	30 January	31 January	01 February	02 February	03 February
Room		Manfred-Weck Haus	Manfred-Weck Haus	Manfred-Weck Haus	Manfred-Weck Haus	Manfred-Weck Haus	
08:00-08:30	Free time for excursions, sight-seeing and self-study						Collective departure
08:30-09:00			Pick up				
09:00-09:30		<b>Supervised Learning 1</b> Session 5	Company Visit Lindt	Group Work	<b>Deep Learning</b> Session 9	Preparation for Exam	
09:30-10:00							
10:00-10:30		<b>Data Challenge 1: Predictive Quality</b>		Cloud and Big Data in Manufacturing Session 7 NMT	<b>Data Challenge 3: Wear Monitoring</b>	Final Exam	
10:30-11:00							
11:00-11:30		Lunch Break at Mensa Vita		Lunch Break at Mensa Vita			
11:30-12:00							
12:00-12:30		Group Work		Unsupervised Learning Session 8	Group Work	Farewell Event	
12:30-13:00							
13:00-13:30		<b>Supervised Learning 2</b> Session 6		Data Challenge 2: Fault Detection	Preparation for Exam		
13:30-14:00							
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				Dinner Night			
18:30-19:00							
19:00-19:30							
19:30-20:00							
20:00-20:30							
20:30-21:00							