

Introduction to i40 ***waiting for participants***

starting soon.

Introduction to Industry 4.0

Course Organization

Die Hannover Messe ist vom 20.-24. April und üblicherweise nehmen viele ITIM an der Exkursion teil. Ich weiß nicht, ob es in Konflikt mit dem Termin am 24.04 steht

Wenn ich es richtig weiß ist der Vortrag bei dir zu den Dingen auf der HMI. Sollte vielleicht hier dann betont werden oder im Plan hervorgehoben werden

Tue	Adler	Förster	
17.03.2026	Organization	Organization	
24.03.2026	Historical Introduction		
31.03.2026	Decision Support Systems		
07.04.2026	[Exercise] Introduction JavaScript		
14.04.2026		Technologies of i40 // Part 1	17.04.2026
21.04.2026	[Lab] JavaScript Part 2	AI in Product Live Cycle	24.04.2026
28.04.2026			01.05.2026
05.05.2026		Digital Twin & Simulation	08.05.2026
12.05.2026	[Lab] Dashboards with Node-Red		15.05.2026
19.05.2026		Examples from Hannover Fair	22.05.2026
26.05.2026			29.05.2026
02.06.2026	[Lab] Signal processing with Node-Red		05.06.2026
09.06.2026		IoT Part II: Cornerstone of i40	12.06.2026
16.06.2026			19.06.2026

Grading	
Regular active Participation	Presentation of Topics related to industry 4.0
Submission of programmed Tasks Tasks can be explained by participants Attestation 1	Attestation 2

Ich gehe davon aus, dass deine LV vollständig via Zoom erfolgen?

Lecture

- As far as we know: Students are in Wernigerode at least at 19.05.2026
- Lectures
 - Förster: Teams Sessions
 - Adler: 17.03. – 19.05. zoom and (maybe) hybrid lectures (hybrid: 5.203 + zoom)

Learning Goals

Lecture: Innovations, technology achievements and their influence on production management

Lab: Historical Understanding of i40 and its application to society.

- Development of Assistance Systems for industrial Environments (with JavaScript)

What is Industry 4.0, how to start with it, what is the perspective.

Zoom/ Teams Rules

Zoom and Hybrid lectures are more challenging for lecturers and students!

1. Use your full name in zoom
2. Close your microphone if you don't talk
3. Show your video – you see me, so I see you!
4. Be aware that you will be asked for participation → You have to react directly
5. If you have questions raise you (virtual) hand → Chat will be ignored
6. If you need to leave lecture for short indicate that with a status icon

Students that follow the lecture as “secondary activity” will be released to fully concentrate on their primary activity → they will be kicked from lecture for that appointment (and might loose attestation)

Exam FAQ

Einverstanden?

Ich will das schriftlich haben, weil ich diese Frage immer und immer wieder habe

- | | |
|-----------------------------|--|
| Is there a final exam? | No! The exam is part of your participation during the semester (Lab: Submissions, Lecture: participation) |
| I missed a lecture | Please inform us – we will reply to you |
| I am stuck with a task! | Ask for help in the lectures forum – please not via mail! |
| I am late with submission | You can retry next semester |
| Submission is incomplete | Submit anyway, try it, understand the solution and improve! |
| Can we use AI? | We can't recommend – if so use it to learn not to solve
→ If you can not explain your solution, you will fail |
| Can you record the lecture? | No. We don't want to support inactive participation and Binde Watching |

Exercise(s)

Requirements

1. Submit in Time! (send via Mail)
2. Filename because of automated testing / validation
 - Prefix with u-number
 - Avoid spaces and special chars in filenames
 - Example: u12345_lesson1.json u12345 Solution André Marvé.json

You will learn

- Basic Programming with JavaScript
- Realtime Data Processing and Communication

Appointments

Date	What
03.04.	Eastern
20.04. – 24.04.	Hannover Messe (Technology Trade Fair)
01.05.	Public Holiday
15.05.	Ascension Day (Public Holiday in Germany)
26.05-29.05	Project Week (no regular Lectures) → 26.05. no lecture

And you?

Please answer some questions to get to know each other better

Some Interactive Slides with Mentimeter

Mache ich dann mit denen um besser zu verstehen womit wir es zu tun haben

1. *Wo kommen die Studierenden her (Länder)?*
2. *Welche beruflichen Vorerfahrungen liegen vor?*
3. *Vorwissen zu i40*
4. *Vorwissen Programmierung*
5. *Offene Frage Anregungen und Vorschläge*



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Appointments on Request

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