

# Smart Factory

A Hands-on Lecture on Planning, Controlling and Managing a Smart Factory

## New Course for Summer Semester 2025!

### General information

- Modern Course Consisting of a Mix of **Traditional Lectures**, **Practical Exercises** and **Hands-on Workshops** in the Global Production Learning Factory
- Course Language: **English**
- Aimed at **Bachelor's Students** in **Mechanical Engineering** and **Mechatronics**
- Practical Application of the Methods/Implementation with **Python**, among others
- **Limited Places: ~20**
- **4 ECTS**

### Course content

- Introduction to Production, Production Planning & Control and Lean Management
- Technological Foundations for Industry 4.0 and Smart Factories
- Digital Modelling of Production Systems
- Digital Methods of Factory Planning and Control

## Organizational

### Workload

- Presence Appointments: ~50 h
- Self-Study Time: ~70 h

### Registration

- **Deadline:** 29.04.2025, 23:55
- Send CV and Transcript to: [sebastian.behrendt@kit.edu](mailto:sebastian.behrendt@kit.edu)
- Further Information During Info Event on 23.04.2025, 17:30 in Building 50.36, Room 010

### Examination

- Colloquium
- Oral Exam

## Contact

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