



Visualization for Industrial Applications

By taking part in this course you will learn about the role of visualization in industrial applications with a specific focus on Industry 4.0. You will learn how to evaluate and develop production systems and processes that integrate visualization technologies, such as digital twins, virtual and augmented reality and are supported by artificial intelligence.

In this course, you will gain insights into digital technologies for industrial visualization, and their application in various real-world domains in the context of Industry 4.0. Specifically, you will gain an understanding of when industrial visualization using technologies such as digital twins, virtual and augmented reality, or artificial intelligence may be a good solution in the development of production systems and processes.

YOU WILL LEARN TO

- Evaluate technologies for industrial visualization such as digital twins, virtual and augmented reality, and artificial intelligence.
- Show understanding for how to develop production systems that include digital technologies for industrial visualization.
- Describe how to design and implement production processes which include industrial visualization.

TEACHER

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Leo Hatvani is a lecturer at MDH. He is currently teaching courses primarily focused on Industry 4.0 with specific focus on extended reality and artificial intelligence. His recent research has been focused on using artificial intelligence approaches to optimize manual testing processes.

DETAILS

STUDY PERIOD: Jan 18, 2021 – Mar 28, 2021

STUDY PACE: 33% (approx. 13 hours/week)

CREDITS: 5

For more information about the course and how to apply, visit

mdh.se/en/malardalen-university/education/further-training/smart-production

ENTRY REQUIREMENTS

40 credits in Engineering/Technology and at least two years' experience in full-time employment in a relevant area within industry. Since the course is given in English, you need knowledge of the English language. If you do not have the formal qualifications required, you can have your eligibility evaluated based on knowledge acquired in other ways, such as work experience, other studies etc.

PREMIUM

This course is part of the Premium project, which is co-funded by the Knowledge Foundation. Learn more about Premium at mdh.se/premium

MÄLARDALEN UNIVERSITY

Mälardalen University (MDH) is one of Sweden's largest HEIs, with 16 000 students reading courses and programmes in Business, Health, Engineering and Education. At MDH, research is conducted within all areas of education. MDH's close cooperation with the private and public sectors enables us to help people feel better and the earth to last longer.

**GET AHEAD.
STAY AHEAD.**