

SmartFactory@Industry

Hands-on Industry Training

A Master's Program with Hands-on Experience

Take the chance and combine an international Master of Science in Optics & Photonics at one of the leading technical universities worldwide with training projects offered by some of the key players in German industries.



Integrated Industry Unit

- Program-specific block lectures
- Practical phases at the company's innovation labs
- Exclusive insights in aspects of industry 4.0



Direct Link to Industry

- Work with experts from the key players in German industries
- Gain additional management skills
- Get a sense for today's job market
- Obtain intercultural competences
- Opportunity to do the Bachelor's thesis with one of the industry partners



State-of-the-art Topics

- Human-Machine Collaboration
- Smart Factory & Smart Manufacturing
- Internet of Things
- 3-D-Printing
- Supply Chain
- Big Data Analysis
- Cloud Computing

Integrated Industry Unit



Work with Our Partners:



BOSCH

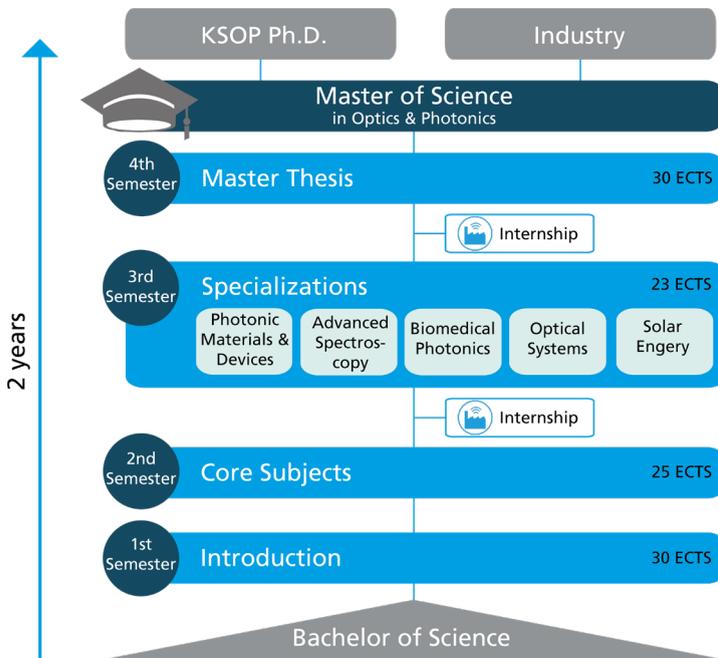
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ZEISS

Industry 4.0 and Smart Factories

The concept of **Industry 4.0** defines a new way of organizing factories, also called smart factories, aiming to better serve customers through greater flexibility of production and resource optimization. The key principles of Industry 4.0 include the collection and analysis of data and the use of networks of instant communication.

KSOP M.Sc. Curriculum



Hands-on Experience

In cooperation with industry partners, the Karlsruhe School of Optics and Photonics offers the integrated industry unit Smart Factory@Industry. This dual training program aims to enhance the technical and interdisciplinary profile of mechanical engineering students and also builds up networks with potential employers at a very early stage of their academic career.

Gain Exclusive Insights Into Aspects of Industry 4.0!

Get in Touch With Potential Employers!

Become an Expert in a State-of-the-Art Topic!

How to become part?

Apply for our Master Program in Optics & Photonics!



“What I enjoyed most while doing the project was working with the talented and experienced individuals like R&D engineers and Data Scientists. They gave me the opportunity to put up my skills and knowledge into the project.

Overall, I learned what industries are expecting from fresh graduates.”

Vinod Kumar, KSOP Alumni



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