

Light Up Your Future!

Master's in Optics & Photonics



KSOP

Karlsruhe School of Optics & Photonics

Why Optics & Photonics - Why KSOP



Optics & Photonics are key technologies for the 21st century.

As enabling technologies for high-end industrial applications, they drive research in physics, chemistry, biology and engineering.

In 2006, the Karlsruhe School of Optics & Photonics (KSOP) was founded as the first Graduate School of the Karlsruhe Institute of Technology (KIT) under the **German "Excellence Initiative"**. In 2021, KSOP became sustainably funded through the KIT by the Federal Ministry of Research and Education (BMBF) and the State of Baden-Württemberg.

KSOP provides a multidisciplinary environment for first-class research and education as well as for the generation of innovative technologies in Optics & Photonics. Comprising both Master's and Doctorate programs, the educational concept is designed to qualify graduates for accelerated careers at world leading academic institutions and in high-tech industries.

Today, KSOP's membership is comprised of almost 1,000 Master students, doctoral researchers and alumni from 70 different countries.



More about the KSOP M.Sc. Program: www.ksop.kit.edu/msc_program.php

International Orientation



Interdisciplinarity



Research



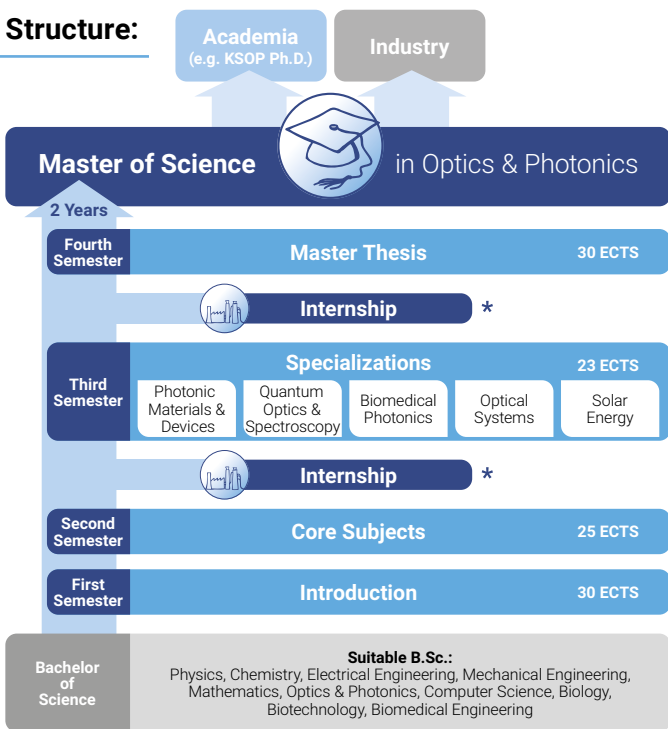
Study with the Best



An Interdisciplinary Master's Program

The 2-year Master's program in Optics & Photonics **is taught in English**. Applicants are required to hold a Bachelor's degree in engineering or natural sciences to become a part of the interdisciplinary Master's program. After completing the fundamental introductory courses and core subjects in the first two semesters, each student chooses a research specialization.

Structure:



* An eight-week internship will take place either between the second and third semester or between the third and fourth semester. This internship is optional and is credited with 12 ECTS.

The research and educational concept reflect the multidisciplinary research among natural scientists and engineers.



More about KSOP M.Sc. curriculum: www.ksop.kit.edu/curriculum.php

Publications



Patents



Awards



Hall of Fame



The Industry Network

The close cooperation to industry partners is of high value for industry, KSOP students, and doctoral researchers. KSOP students and researchers have an exclusive access to leading optics and photonics companies. Through industry lectures, internships, events, and master's thesis opportunities KSOP students gain valuable insight into industry and what it's like to work in Germany.

Our Current Premium Partners:



Benefits for KSOP Students:

+ Practical Experiences & Industry Insights

+ Soft Skills & Cultural Integration

+ Building Career Networks



More about industry benefits: www.ksop.kit.edu/students_industry.php

Voices of Students & Alumni



Image © Carl Zeiss AG

»I really like the internationality of the program. The fact of having colleagues from so many different science and/or engineering backgrounds and having the opportunity to work with them and learn how they approach finding solutions enhances my expertise all the time.«

Javier Mauricio Bruges Martelo
completed his master's thesis at ZEISS



Image © Polytec GmbH

»What I like about the program is the combination of theory and practice. Practical experience is highly important as all the theory is worth nothing if you can not apply it to something real.«

Lisa Kadner
is now working at
Polytec GmbH
as Application Engineer

Perfect Location



Campus Housing



Strong Industry Network



Study & Career Guidance



2022 Employability Ranking



#1

#10

#46

GERMANY
EUROPE
WORLDWIDE

Key Data & Benefits



2-year International Master's Program

Prerequisites: B.Sc. Degree in Optics & Photonics, Natural or Engineering Sciences



Specializations

Photonic Materials & Devices, Quantum Optics & Spectroscopy, Biomedical Photonics, Optical Systems, Solar Energy



Benefits

Industry Internships, Networking, Intensive Lab Training, Language Courses & Business Etiquette Training



KSOP Scholarship Program

Scholarships Available for Outstanding Applicants



Program Language **English**
Start **October**



Ph.D. Opportunity

Graduates of the Master's program can apply for the **KSOP Ph.D. Program** to gain the scientific and technical knowledge, leadership and management skills which are often required for a successful career in industry.

More about the KSOP Benefits: www.ksop.kit.edu/reasons-for-ksop.php



International Orientation



Research



Scholarships



PhD Program



Apply from December - September each year!

NEW: Students can now benefit from applying during one of the three early deadlines as well as the regular admission deadlines for a start in October of each year. **This increases the chance to be admitted earlier, allowing ample time to secure a visa, accommodation, finances, and more!**



Contact:

If you have any inquiries, you can reach us at:

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Edition 01 / 23 - Content might be subject to change