



Fraunhofer
ACADEMY

Part-time Course of Study

ONLINE M.SC. WIND ENERGY SYSTEMS



Offered by

U N I K A S S E L
V E R S I T Ä T



STUDY AT THE CUTTING EDGE OF WIND ENERGY RESEARCH

Build your own career in the emerging wind energy industry with an online M.Sc. program in Wind Energy Systems.

Our lecturers are experts in wind power and are based at the University of Kassel, Germany's leading university in the field of sustainability, and at the Fraunhofer Institute for Energy Economics and Energy System Technology (IEE). In addition, we are a member of the mint.online educational alliance – a collaboration of universities and research institutes that has set itself the goal of educating tomorrow's experts in mathematics, computer science, natural sciences and technology, with a focus on sustainability.

Prof. Dr.-Ing. habil. Detlef Kuhl

Course director, Wind Energy Systems
University of Kassel

Prof. Dr. Kurt Rohrig

Deputy director, Fraunhofer IEE

YOUR BENEFITS

- ››› International Master's program with 100% online teaching
- ››› Study any place, any time, part-time or full-time, and in English
- ››› German Master's degree with scholarship opportunities
- ››› Extensive experience of both institutions, in education and research, in the field of renewable energies
- ››› Teaching by German experts in the field of wind energy
- ››› New job opportunities through engineering education in a booming occupational field
- ››› Access to an international network in the field of renewable energies
- ››› Participate in a voluntary project week in Germany
- ››› Highly flexible choice of modules with close tutoring



PROGRAM OVERVIEW

Our teaching team is highly interdisciplinary

The University of Kassel has a long history of research in the fundamentals, modelling, simulation and structural technology of wind energy systems. The lecturers of Fraunhofer IEE (Kassel) and IWES (Bremerhaven) are pioneers and leading experts in energy system technology for wind turbines. This will enable students to gain a highly relevant qualification in the field of wind energy systems at an internationally recognized level.

Design your career with us!

Take on the challenge of becoming a future expert in the field of wind energy. Our study program offers the opportunity to become a future-oriented expert on aspects such as:

- Managing the technical or economic integration of a large amount of wind energy into the energy supplier system.
- Designing and developing innovative concepts for individual components of the wind energy converter system, such as the nacelle system, the rotor blade or the support structures.

Use this knowledge for a career in a wind park planning company or public institution or become an expert on a single component in the development department of one of the world's leading producers.

GENERAL INFORMATION

Participants: Natural scientists and engineers are the main target group of this Master's program, which aims to educate specialists in relevant research and industry.

Duration: The standard period of study is generally four (full-time) to seven (part-time) semesters.

Degree: Master of Science (M.Sc.) degree from the University of Kassel. This degree qualifies for further postgraduate work towards a PhD.

Accreditation: The online Master's program (M.Sc.) in Wind Energy Systems is accredited by the agency ASIIN.

Admission requirements: Bachelor's degree with at least 180 credits in a relevant engineering/natural sciences field and at least one year's work experience.

Tuition fees: €14,000 (plus enrollment fee of approx. €140 each semester)

Application: Application deadline is July 15. The program starts in October. Further details at www.uni-kassel.de/wes





EDUCATING WIND ENERGY ENGINEERS ONLINE

Study at any place any time

The online M.Sc. in Wind Energy Systems is an internationally oriented, English-language Master's program with 100% online teaching that enables students to learn anytime, anywhere. This provides an opportunity for career changers and professionals to participate in academic training in the young research and business field of wind energy systems.

Online learning and teaching

Every module will be held online. We use the conference software Adobe Connect and the learning platform Moodle for teaching the modules, using, for example, PDFs, links, data files and videos. Learning activities take the form of forums, tests, tasks, homework and assignments. Furthermore, we offer professional and personal support by lecturers and mentors during the online lectures.

Student-oriented teaching and project phase

Methods and technological innovations are developed in problem-oriented learning alliances with industry and with a focus on practical examples close to Fraunhofer research projects. In addition, students are invited to a voluntary project week in Germany, where they have the opportunity to meet teachers and visit laboratories and companies in the wind energy sector in order to personally experience the famous German energy transition.

PROGRAM STRUCTURE

A modular course structure

Students can choose from a selection of more than 20 modules. This number is divided into fundamental modules, two specialization modules and additional key competence modules.

A total number of **120 ECTS** must be achieved in the master's program. It is taught in English and online. The gained qualification is a Master of Science (M.Sc.).

Master's thesis (university, IEE or industry)		30 ECTS
Specializations / Additive key competences		60 ECTS
Specializations in Wind Energy Systems: ----- Simulation and Structural Technology or Energy System Technology		Additive key competences (management and energy law)
Fundamentals of Mathematics and Engineering for Wind Energy Systems		30 ECTS



DO YOU HAVE ANY QUESTIONS FOR US?

About content-related issues?

About similar programs?

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