



www.academy.fraunhofer.de

www.uni-kassel.de/wes

AN OVERVIEW OF THE BENEFITS WE OFFER

- >>> Part time or full time studies and distance learning
- >>> Studies are carried out independent of time and location
- >>> Both institutions have extensive experience of education and training in the field of renewable energies
- >>> A deep view into the research and development in the field of wind energy
- >>> A modern eLearning environment
- >>> Scientific and high-tech application-oriented study
- >>> A highly flexible choice of modules



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ONLINE M.SC. WIND ENERGY SYSTEMS

Part Time
Course
of Study

MAKE USE OF OUR KNOWLEDGE ABOUT WIND ENERGY

Take the premium online Master program Wind Energy Systems (WES) and build your own professional career in the emerging field of wind energy systems. The Master course is not only taught by academic experts in wind power but it also establishes learning alliances with industrial companies. Master theses can be prepared in close connection to important players in the wind power sector. The main target groups for the Master program are natural scientists and engineers. Besides the fundamental academic modules, our students are offered individual specialization modules.

Prof. Dr.-Ing. habil. Detlef Kuhl
Wind Energy Systems Course Director
University of Kassel

Prof. Dr. Clemens Hoffmann
Director Fraunhofer IWES



Partner University

U N I K A S S E L
V E R S I T Ä T



EDUCATING WIND ENERGY ENGINEERS ONLINE

PROGRAM STRUCTURE

ENTRY REQUIREMENTS

“A need of educated engineers is be noted on all levels of the high growing on- and offshore sector. We would like to educate qualified engineers for the growing job market of the Wind Energy Sector.”

Dr. Kurt Rohrig, Deputy director of Fraunhofer Institute for Wind Energy and Energy System Technology (IWES)

A modular course structure

The study program consists of a selection of more than 30 modules. The modules are self-contained learning units. All modules are taught online. This enables career changers and professionals to take the academic training in the emerging research and business field of wind energy systems.

An interdisciplinary team of teachers

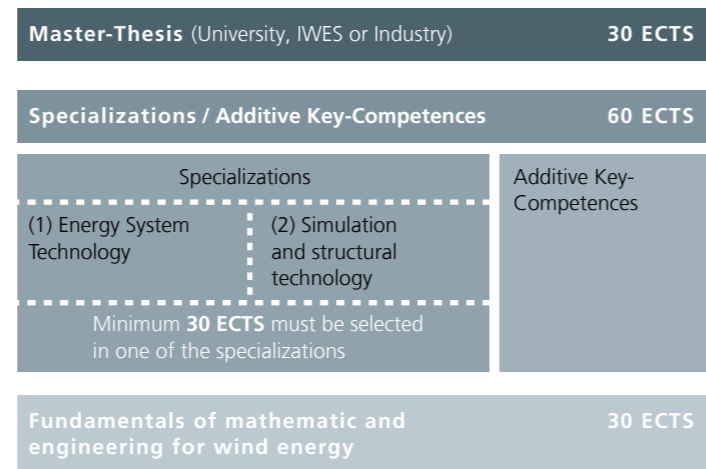
The participating teachers have a high level of interdisciplinarity. All professors of the University of Kassel are internationally recognized experts in wind energy system technology. The lecturers from Fraunhofer IWES are pioneers and leading experts on the energy system technology of wind turbines with a great deal of experience in research and industrial applications. As a member of important wind energy research associations (including DERlab, EUREC, EERA, EAWE), Fraunhofer IWES has an exceptional level of wind energy expertise. It provides the master students with a comprehensive learning environment that offers excellent possibilities for their further qualification and job opportunities in the field of wind energy systems at an internationally recognized level.

The learning platform Moodle

The learning units are provided through the learning platform Moodle. A professional support is provided during the online-based self-learning phases.

Curriculum

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



The participants: Target groups for the Master program Wind Energy Systems are scientists and engineers from research and industry who are seeking professional training in the scope of a full master degree or single specialization modules.

Degree: Successful participants are awarded a Master of Science (M.Sc.) degree from the University of Kassel. The degree title is “M.Sc. in Wind Energy Systems”. This degree qualifies for further postgraduate work towards PhD.

Accreditation: The Master’s program Online M.Sc. Wind Energy Systems is successfully accredited by the agency ASIIN in 2015.

Entry Requirements: The minimum entry requirements are a Bachelor in a relevant natural/engineering science plus work experience of at least one-year. Career changers are very welcome.

Study Period: The study duration is typically between four (full time) and seven (part time) semesters.

Application: The application procedure is described on the M.Sc. Wind Energy System website: www.uni-kassel.de/wes

Knowledge transfer from research to education

As a result of the technical cooperation between the University of Kassel and the Fraunhofer Institute for Wind Energy and Energy System Technology (IWES), the latest research findings are integrated into the teaching of the Online M.Sc. Wind Energy Systems.

The **University of Kassel**, which contributes to the Master program with professors from the departments of civil, mechanical and electrical engineering, as well as natural sciences and mathematics, has a long research history in the structural technology of wind energy systems. Research topics include mathematics, structural mechanics, aerodynamics, geotechnics, experimental and computational solid and fluid mechanics, and technological concepts for foundations, rotor blades and wind turbine towers.

The research activities of **Fraunhofer IWES** cover wind power and the integration of renewable energy into energy supply structures. The main areas of research are: Technology and operational management of wind turbines and wind farms; component development for rotors, drive trains and foundations, evaluation methods for wind turbines and components, environmental impact analysis of wind power generation, control and system integration, converters and storage systems.

