Master in Sustainable Textiles (M.Eng.) - Hof University — Hof University

Source: https://www.hof-university.com/studying-at-hof-university/our-degree-programs/sustainable-textiles-meng.html

In this Master's program, you will gain deeper knowledge about the challenges of the global textile industry today. It is about the quality of renewable and petrochemical based materials, responsible production and environmental production, legal regulation and labour rights.It is about about achieving transparency in the complex global value chain in order to create the future textile industry.

During your studies, you will acquire the skills needed to create (more) sustainable processes in textile chemistry, optimize production processes and conduct research on innovative fibres and finishings.

With this Master’s program, you

gain a deep understanding of the global challenges of the textile industry,

develop sustainable solutions and

implement and evaluate them in interdisciplinary teams.

In addition, you benefit from

an innovative and diverse mix of teaching methods - practical lab work, virtual learning, blended learning, and case studies besides regular lectures

a perfect interdisciplinary toolbox of knowledge and skills in responsible production, environmental protection and labour rights

development of your intercultural competence

excellent career perspectives

As a graduate, you ...

have excellent career opportunities, both in Germany and abroad

you are qualified for a variety of interesting positions in the global textile value chain, such as:Research & development (R&D;) in the textile chemistry industryProject manager or leading position in research and sustainability teams in textile industry (brand, retail, manufacturing, production)Project manager or leading position in development department in institutions/ organizations (governmental or nongovernmental)Cooperative PhD

Research & development (R&D;) in the textile chemistry industry

Project manager or leading position in research and sustainability teams in textile industry (brand, retail, manufacturing, production)

Project manager or leading position in development department in institutions/ organizations (governmental or nongovernmental)

Cooperative PhD

You are ready to work as

Head of Quality Assurance in textile industry or textile chemistry industry

Research and Development Manager

Quality Manager/ Certification officer

Technical Advisor

Compliance Manager

The Master’s program is based on a hands-on, interdisciplinary concept. Current topics like circular economy, materials made from renewable sources, and resource efficient processes are interconnected with classic technologies applied in textile production and textile chemistry. In addition, digitalization, innovation and international legal requirements for the textile value chain are considered.

Theory and practical training are closely connected. Our campus Münchberg is excellently equipped: on an area of over 5,500 m2, weaving, braiding, nonwovens and knitting pilot plants as well as laboratories for pre-treatment, dyeing, chemical finishing and testing of textiles are available.

Semester 1 and 2: Practice-oriented theory

Textile Technology / Textile ChemistryAdvanced Textile ProductionAdvanced Textile ChemistryEffect and Process AuxiliariesResource Efficient Application Technologies

Advanced Textile Production

Advanced Textile Chemistry

Effect and Process Auxiliaries

Resource Efficient Application Technologies

Management / International LawLegal Framework and Digitalization of the Textile Value ChainSustainable Project Management

Legal Framework and Digitalization of the Textile Value Chain

Sustainable Project Management

Sustainability and Renewable ProductsCircular Economy/ Certificates and Eco LabelsSustainable Functionalization and Surface Modification of TextilesRenewable Products for the Textile Industry (Fibers, Auxiliaries, Dyestuffs)

Circular Economy/ Certificates and Eco Labels

Sustainable Functionalization and Surface Modification of Textiles

Renewable Products for the Textile Industry (Fibers, Auxiliaries, Dyestuffs)

Electives (choose one)Project SimulationSustainable Products for Medical or Hygienic End-UseSimulation and Optimization

Project Simulation

Sustainable Products for Medical or Hygienic End-Use

Simulation and Optimization

Semester 3: Internship

practical work-experience

Master‘s thesis with a company

Academic requirements

Bachelor’s degreeor similarin engineering or natural sciencesproviding sufficient knowledge in textile technology and textile chemistry from an accredited university, at least 210 ECTS or equivalent (depending on home country);minimum grade 2,5according to the German grading system

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Sufficient knowledge means that you achievedat least 60 credits(or their equivalent)in textile technology and 20 credits in (textile) chemistryduring your first degree

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Applicants with less than 210 credits (ECTS) will be accepted but have to gain the missing credits by attending appropriate modules at Hof University. In this case, please calculate an additional (fourth) semester.

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Language requirements

Proof of English language proficiencyby either of the following options:TOEFL minimum 90IELTS 6.5 or above

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Proof of basic German language skillsfor applicants from abroad (Certificate forminimum level A1according to the Common European Framework for Languages (CEFR))

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All applications must be submitted online via ouronline application portal Primuss. If you acquired your university entrance certificate abroad,uni-assistmust assess the certificate before you can send it to Hof University. We advise you to send your documents to uni-assist at least 4 weeks before the application deadline at Hof University.

The application period for

winter semester is between April 15 and May 31.

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summer semester is between November 05 and November 30.

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The admission committee intensively validates all applications and decides about the final admission. You will receive your Admission Letter approx. 4 weeks after the application deadline.

If you have any questions concerning the application process, please contactadmission(at)hof-university.de.

Intensive support

Hof University offers a safe, friendly and open-minded study environment. Find out more about our intensive personal support for international students!

Sustainable Textiles

Winter semester: April 15 - May 31

Summer semester: November 5 - November 30

Info and services

Timetable

Here you find your timetable.

The campus Münchberg is located about 20 km south of our main campus. Here you will find a library, high-tech laboratories and our textile technical center.

More about Campus Münchberg

Hof University is part of several textile-related networks (e.g.TEGEWA e.V.or thePartnership for Sustainable Textiles). This is a unique opportunity for our students to establish business contacts with potential employees at an early stage, e.g. for internships and research topics for the Master‘s thesis.

Study excursions to innvative textile tech companies and discussions with experts from research and industry form a vital part of the Master‘s program.

Our campus locations Hof and Münchberg are important centers for textile and materials research. OurInstitute for Materials Science (ifm)develops innovative and sustainable products and processes by using the core competencies of mechanical engineering, system materials, textile technology, composites, textile design, industrial and environmental engineering. This interdisciplinary approach enables the creation of composites with improved qualities and special functionalities.

TheFraunhofer Application Center for Textile Fiber Ceramicsis located on our campus Münchberg and dedicated to processing carbon and ceramic yarns. The approx. 1,000 m2 technical center is equipped with stateof- the-art textile technology facilities for the production of 3D fabrics.

„With „Sustainable Textiles“, an outstanding Master‘s program was created on Campus Münchberg. The focus on the connection of textile chemistry and sustainability in the textile production chain is unique and future-oriented. Thus, graduates have great perspectives for their future careers. TEGEWA member companies are looking forward to your applications for internships as

well as topics for the Master thesis.“

TEGEWA e.V.

TEGEWA e.V. is a specialist association of the chemical industry, representing more than 100 producers of surfactants, cosmetic basic materials as well as additives and colourings for the textile, leather and paper industry.

Ankit from India

Liying from China

Head of Program

Head of Board of Examiners

Student Affairs - Program Manager

Prof. Dr.-Ing. Michael Rauch

Tuesday: 14:00 - 15:00only with prior registration via email

Prof. Dr. Anett Matthäi

Arrangement of appointments via email

Elisa Dähne

Please contact our Welcome Center.