



Innovative Textiles (B.Eng.)

Bachelor's Program
Engineering Department



**Hochschule
Hof**

University of
Applied Sciences

Innovative Textiles – What is it all about?

Textiles have evolved beyond clothing and home fabrics, becoming a central component of cutting-edge technologies and industries. Innovative textile processing with new materials enhances functionality and sustainability. Their versatility is vital in medical, automotive, and aerospace sectors, from masks to vehicle construction and space suits.

Our Bachelor's program in Innovative Textiles is your entry into the fascinating world of technical textiles and textile chemistry. Learn innovative material science and processing technologies, from fibers to fabrics.

Our practice-oriented curriculum prepares you for engineering challenges and optimizing textiles while taking technical, economic, and ecological aspects into account. Gain expertise in technical fiber composites and modern textile chemistry to conquer industry challenges and innovate solutions.

Are you ready to be part of the future of the textile industry?



What do I gain with this B.Eng.?

With this Bachelor's program, you

- _ develop practical skills and problem-solving techniques essential for complex engineering tasks,
- _ gain sustainability awareness and contribute to a greener future,
- _ refine your technical and methodological knowledge as well as your intercultural competences.

In addition, you benefit from

- _ working effectively in teams to tackle complex tasks and develop innovative solutions,
- _ a well-equipped campus with facilities for weaving, braiding, nonwovens and knitting technologies as well as laboratories for pre-treatment, dyeing, chemical finishing and testing of textiles.

Further information is available on
www.hof-university.de



Fast facts



Degree awarded

Bachelor of Engineering (B.Eng.)



Duration

7 semesters in total

For degree-seeking international students:

5 semester (2.5 years) at Hof University (students take up their studies at Hof University from semester 3 after studying two years at their home university)



Language of instruction

Semester 1 - 2: taught in German language

Semester 3 - 6: taught in English language

Semester 7: Bachelor's thesis in German or English language



Tuition fees

No tuition fees; just an administrative fee of approx. € 130 per semester



Study location

Campus Münchberg and campus Hof



Services and support for international students

- _ organisational support before and during your studies at Hof University
- _ assistance in finding accommodation
- _ Orientation Week prior to the start of your studies
- _ social integration
- _ career-promoting activities such as intercultural trainings, field trips, and company visits
- _ free public transportation in the cities of Hof and Münchberg

Special features

Theory and practice closely linked through in-depth lab work in addition to the lectures

Individualized support thanks to small classes and active student participation in exercises and discussions during lectures

Future-oriented topics such as circular economy, materials made from renewable raw materials and resource-efficient processes in the textile industry are actively promoted

International environment through cooperation with various international partner universities to promote intercultural skills

Student research projects during the study program offer targeted specialization opportunities of your choice

Excursions to regional textile companies and relevant trade fairs, such as ITMA in Milan/Barcelona or Techtextil/ Texprocess in Frankfurt

Historic location with spacious, well-equipped laboratories and technical centers for teaching and research on an area of over 5,500 m²



What are the prerequisites?

Academic requirements

- _ **General higher education entrance qualification** or subject-linked university entrance qualification, University of Applied Sciences entrance qualification or professional qualification
- _ If you are not sure about your university entrance qualification, please check www.uni-assist.de and www.anabin.de
- _ For our degree-seeking program, successful completion of relevant basic studies at home university (4 semesters) is required.

Language requirements

International degree-seeking applicants usually start in the 3rd semester (when the language of instruction changes to English). In this case, you need to fulfil the following language requirements:

You need to prove your **proficiency in English**. This can be done with either of the following:

- _ TOEFL minimum 90
- _ IELTS 6.5 or above

In addition: **Basic language skills in German, minimum level A1**, proven by official test score documents.

When and how can I apply?

Online application

You register in our online portal Primuss and fill in the application form with your personal details. If you acquired your university entrance certificate abroad, **uni-assist** must 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 our application deadline.**



Application deadline

May 1 - July 15



Get your admission letter from Hof University

in June/July



Online enrolment

in September



Orientation Week in Hof

last two weeks of September



Start of your studies at Hof University

October 1

The study program provides practice-oriented theory in combination with small class sizes and individual support from faculty. The standard duration of this Bachelor's program is 7 semesters.

Semester 1 and 2: Orientation Phase

During the first two semesters, you will be taught the basics of textiles and engineering in German language. For degree-seeking international students, the basic studies usually take place at the student's home university in his or her local language.

Semester 3 to 6: Core Phase

In the core phase, your knowledge of textiles is expanded step by step. You will learn the industrial production of yarns and textile fabrics (woven, weft-knitted, warp-knitted and nonwoven fabrics) as well as finishing techniques through dyeing, printing, and coating. In the advanced semesters, the focus is on textile chemistry and the production and application of technical textiles. All modules are taught in English language on campus and include extensive laboratory exercises.

It is highly recommended for international students to take additional German language courses (available for free at different levels).

Semester 7: Practical Phase

In your final semester, you will complete an internship at a company of your choice (including a practical research project) and write your Bachelor's thesis. This allows you to apply your knowledge immediately, specialize and gain your first professional experience.

After successful completion of the program, Hof University awards the academic degree **Bachelor of Engineering (B.Eng.)**.

1 & 2	Mathematics for Engineers I	Basics of Textile Engineering	Computational Science for Practitioners	Textile Raw Materials	Methods of Textile Production	Introduction to Business Administration
	Basic Principles of Textile Finishing	Testing of Textiles	Chemistry and Environmental Technology	Basics of Material Science	Statistics	Basic Project Management
3 & 4	Elective I*	Quality Management	Project „Textile“	Spinning Technology	Knitting Technology	Chemistry II
	Technical Studies for Knitted and Woven Structures	Weaving Technology	Technology of Nonwovens	Analytical Chemistry	Textile Composite Materials	Circular Economy and Sustainable Polymer Engineering
5 & 6	Technical Textiles - Knitted Fabrics	Advanced Coloration	Textile Chemistry	Future in Textile Printing	Product Development	Customized High-Performance Textiles
	Elective II*	Technical Textiles - Woven Fabrics	Textile Coating and Industrial Fibres	Textile Finishing	Business to Business Marketing	Modern Methods of Material and Surface Characterization
7	Compulsory Internship with practical research project and Bachelor's Thesis					

Orientation Phase (taught in German; usually takes place abroad for international students)

Core Phase (completely taught in English)

Practical Phase (the thesis can be written in German or English)

* Electives: choose from a list of current topics.

You can take additional German or English language courses at different levels each semester.

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

In addition, our campus locations Hof and Münchberg are important centers for textile and materials research.



ifm

Institute for
Materials Science
at Hof University

Our **Institute 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.



Fraunhofer
ISC

The **Fraunhofer Application Center for Textile Fiber Ceramics TFK** is located on our campus Münchberg. It transfers textile processing techniques from conventional materials to ceramic, carbon and glass fibers in order to produce semi-finished textile products and end products. The TFK offers projects and services for the development of ceramic fiber composites along the entire process, from the fiber to the finished CMC component.

Become a student assistant and work on exciting research projects during your studies!

What are my career perspectives?

As a graduate, you...

- _ have career opportunities along the entire textile value chain from chemical fiber production to textile machine construction, as well as in related sectors.
- _ are in high demand by industry and government for a variety of careers in research, development, production, and management, both nationally and internationally.
- _ demonstrate effective engineering practices, entrepreneurial behavior, research, and leadership competences.
- _ can gain further qualifications with our specialized Master's in Sustainable Textiles or Sustainable Water Management and Engineering (both taught in English).

... Entry positions?

- _ Textile engineer
- _ Development engineer or product developer
- _ Project manager
- _ Technical buyer and sales representative
- _ Application engineer
- _ Technical consultant
- _ Quality manager
- _ Production manager



„Your new family is already waiting for you!“

Isabell Korn from Germany
B.Eng. Innovative Textiles student

How was your start at Hof University?

„When taking up my studies at Hof and Münchberg, I was cordially welcomed as a new member of the university and textile family right away. The university teachers impart their knowledge particularly with regard to practical applications and are always here to offer their help and support.“

What do you like about the program?

„The first year provides us with basic engineering and textile knowledge which is extended further in the following semesters, from then on in English. The combination of theoretical and practical knowledge along with various possibilities to establish a personal network makes me feel well prepared for my future workplace. Additional Master study programs such as Composite Materials or Sustainable Textiles are also offered at Hof University.

What about the spirit among students?

„Innovative Textiles is well known for its general spirit of co-working and support among its students who see themselves as team members, not rivals. The friendly atmosphere, low living expenses and having all local facilities nearby are definitely the main ace up the sleeve of the university location.“

Anything you want to shout out to future students?

„You are interested in finding solutions for current issues like sustainability or want to plunge deeply into the many-faceted world of technical textiles? Your new family is already waiting for you!“

student-centered innovative
green applied research **start-**
up culture fun **active student**
life 24h opening campus
university application-oriented
knowledge water and energy efficiency
focused on graduate
employability modern teaching
methods international **career**
promoting activities for students
open-minded and **friendly**
atmosphere modern architecture



Why choose Hof University?



At Hof University, you can expect

- _ a first-class, hands-on education,
- _ a safe, friendly and open-minded study environment, especially for international students,
- _ extensive personal support by our Welcome Center, International Office and Career Service.



In addition, you benefit from

- _ assistance in finding accommodation,
- _ Orientation Week prior to the start of your studies,
- _ additional activities such as intercultural trainings, field trips and company visits,
- _ 24-hours access to computer labs and library,
- _ free wifi on campus.



About Hof University

Founded in 1994 as a Bavarian state university, Hof University of Applied Sciences offers a very attractive study environment with its modern architecture and state-of-the-art facilities. Practice-orientation, internationalisation and graduate employability are at the heart of teaching and research at Hof University.

German students and international students from more than 60 countries learn together on our open-minded, intercultural campuses in Hof and Münchberg. Exciting student initiatives (e.g. eSports, Fairtrade Group or Formula Student) make student life even more interesting.

All professors and lecturers have a strong academic background as well as practical experience in the industry. As a result, graduates of Hof University are ideally prepared for the domestic and international labor markets.

Located at the top of Bavaria, Hof and Münchberg are safe and cozy towns in the heart of Europe with all amenities of a university town. Their green surroundings are ideal for all outdoor activities, and major cities like Berlin or Munich are within easy reach.



Who can I contact with further questions?



Head of Program

Prof. Dr. Claus-Ekkehard Koukal

claus-ekkehard.koukal@hof-university.de



Welcome Center

Carolin Huttner

Tel +49 9281 409-3319

welcome@hof-university.de



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Hochschule Hof
Campus Hof

Alfons-Goppel-Platz 1

95028 Hof/Saale

Germany

Phone +49 9281 409-3319

www.hof-university.de