



# B.Eng. in Innovative Textiles



## About the course

Today, the term “textiles” is not considered a synonym for clothing and home furnishings alone. Modern textiles are utilized in a multitude of area of applications, ranging from automotive to medicine to aerospace. The field of textiles has advanced to become one of the hitech sectors of the global industry during recent years. Their versatile functionality has rendered innovative materials indispensable for technical applications.

This Bachelor degree program on Innovative Textiles, offered by Hof University of Applied Sciences in partnership with PSG Institute of Advanced Studies, provides students with in-depth knowledge in innovative materials (fibres, yarns, knitted, woven and non woven fabrics, finishing chemicals etc..) and modern processing technology (surface engineering, finishing) etc., With this know-how as foundation, students master in textile material, manufacturing and finishing processes of textiles considering technical, economic and ecological aspects. The opportunities for textile engineering are vast and its potential is yet to be explored, with an interdisciplinary approach as the key.

This program has an interdisciplinary curriculum, drawing on diverse science and engineering principles. The program's core subjects, which include extensive laboratory exercises, are complemented with appropriate electives to provide a broad base for fundamental engineering courses. Participation in laboratory work by students is an integral part of the studies. Students develop a unique background which allows them to pursue undergraduate research, internships and design projects. All classes are small and personal attention from faculty is guaranteed. All lectures and laboratory exercises take place on the Munchberg campus, a traditional centre for textiles for more than 150 years. “Innovative Textiles” deals with the application of scientific and engineering principles to the design and control of all aspects of fiber, textile and apparel processes, products and machinery. The students gain knowledge in the areas of production, quality control and design & development of textile products. With an emphasis on production technologies, the students are familiarized with the selection of process and machines for economic production and optimization of textile parameters, particularly with respect to technical textiles. Students participate in extensive practical and laboratory training assignments and complete one mandatory practical semester. Students learn to apply their knowledge and skills to complex or novel tasks and to solve problems independently. Students are developed in team management, interpersonal competence and time management which make them to become effective members of project groups.

## About the Program

This international Bachelor program has duration of 9 semesters (4.5 years) including an internship phase of 18 weeks and a thesis phase of 12 weeks. Four basic semesters are to be completed at PSG Coimbatore. Subsequently four consecutive semesters are completed at the Munchberg campus of Hof University of Applied Sciences, Germany, including the core studies and the specialization area. The internship phase and the thesis phase may be completed at either location. After successful completion of all assignments, students are awarded the Bachelor of Engineering Degree (B.Eng) from Hof University of Applied Sciences. There is a possibility for the students to get employment in Germany.

Semester Number	1 2 3 4	5 6	7 8	9
Basic Studies (4 semesters / 2 years)	<ul style="list-style-type: none"> <li>Mathematics for Engineers, Statistics, Mechanical Design, Organic Chemistry, Textile Raw Materials, Testing of Textiles, Analysis, Business Administration for Engineers, Statics and Strength of Materials, Principles of Information Technology, General and Inorganic Chemistry, Textile Production</li> <li>Intensive German language training</li> </ul>	Core Studies (2 semesters / 1 year) <ul style="list-style-type: none"> <li>Analytic Chemistry, Technical Studies for Knit Structures, Product Design, Teamwork and Time Management, Non Wovens, Weaving, Basic Material Science for Engineers, Presentation and Communication, Quality Management, Knitting, Principles of Textile Finishing, Spinning</li> <li>Intensive German language training</li> </ul>	Areas of Specialisation (2 semesters / 1 years) <ul style="list-style-type: none"> <li>Textile Finishing, Coating and Industrial Fibres, Coating Technology for Thin Layers, Textile Dyeing, Textile Composites; Mechanical Properties and Testing Methods, Conditioning of Polymer Surfaces, Textile Chemistry, Technical Textiles - Knitted Fabrics, Textile Printing, Textile Dyeing, Extrusion Technology, Project work</li> <li>Intensive German language training</li> </ul>	Internship and Thesis (1 semester) <ul style="list-style-type: none"> <li>Project work (18 weeks)</li> <li>Bachelor thesis (12 weeks)</li> </ul>
	PSGIAS Coimbatore	Hof University of Applied Sciences		Germany Industry or Hof University or India

## Why study at Hof University?

- Hof University is one of the few German universities offering Textile education and has an excellent reputation
- Strong practice-orientation and integrated internship
- Well equipped laboratories, state-of-the-art machinery and modern classrooms
- Ideal student - teacher ratio
- Intensive personal support
- Large Indian student community
- Low cost of living yet high quality of life
- Affordable accommodation in hostels
- Excellent location to explore Germany and Europe

## Professional Perspective

- Excellent job opportunities in textile engineering and related fields
- Opportunity to work in Germany
- Possible salary up to Euro 35000 per year

## Student Life

### Campus

Hof campus offers a variety of events, ranging from international evenings or interdisciplinary lectures to parties and movie nights.

### Sports facilities

Hof University provides a wide range of leisure sports, offering diversification, fun and the opportunity to create balance in the demanding lives of students. Sports facilities like a double-size gym, tennis court, all-weather pitch, bowling alleys, a beach volleyball court, a fitness training room and fitness equipment can be used by all students. In addition, many sports classes are offered.

### Student clubs

Apart from the Students' Union, which represents the interests of the students, there are several student-run associations on the campus. The International Team, for instance, supports international students during their stay in Hof and organizes events such as parties, dinners and excursions.

Website: [www.hof-university.com](http://www.hof-university.com)

Apply online : [www.psgias.ac.in](http://www.psgias.ac.in)

