



# Fashion & Textile Technologies

4-year Bachelor programme | Enschede



**‘The future of fashion is materials’**, according to trend watcher Lidewij Edelkoort. This is exactly how Saxion’s Fashion & Textile Technologies (F&TT) programme distinguishes itself from other textiles and fashion programmes in higher education. Professionals from the fashion and textiles industries with a passion for textile materials will help you get ready for a rewarding job in this international sector.

Dutch education focuses on fostering student independence, team spirit and presentation skills. On top of that, Saxion’s programmes are known for interweaving theory with practical experience. Fashion & Textile Technologies forms an excellent basis for a career in the textile or fashion industry, whether in your home country or anywhere else in the world.

general

### Programme

The Fashion & Textile Technologies (F&TT) higher education programme is unique in its focus on the future. At the end of the programme, you will have obtained a Bachelor of Science degree and know exactly how to apply your knowledge and skills in the international fashion and textiles industry. The future is all about innovation – and when it comes to innovation, Saxion is at the cutting edge. The time to get serious about such themes as sustainability and corporate social responsibility is now. This programme will teach you everything you need to know about textile materials, innovative production methods, building a collection, buying, selling and – last but not least – entrepreneurship. Thanks to your knowledge of products and materials, you will be a vital link in the chain between designers, manufacturers

and consumers. Interior and fashion designers will rely on you for specialist knowledge and feedback. The future is also about new applications for materials, from solar cells in jackets to innovative re-use of textile waste. The future of fashion and textiles is yours – and so are a sustainable future and a healthy climate.

### What will you be learning?

The Fashion & Textile Technologies programme offers plenty of opportunities for you to discover and develop your talents, whether they lie in the field of materials (technology), collection (creativity) or buying (commercial). A broad foundation course will teach you all the ins and outs of textiles. You will then choose a specialisation with the help of a minor, internship, Smart Solutions Semester and graduation assignment. Your portfolio will focus on such topics as:

#### Materials (technology):

Which materials are required to manufacture these sporting goods? Can consumers wear them in wet weather? Do they allow them to charge their iPhones? How do I test this?

#### Collection (creativity):

How do I build a collection for a new police uniform? Which pieces will the uniform consist of? How can I make a police officer exude authority and yet look cool at the same time? Is the uniform comfortable to wear and nice to look at?

#### Buying (commercial):

Where will I buy these jeans or this carpet? How do I ensure I buy responsibly and sustainably? How much

## Master programmes

Would you like to continue your studies after the Fashion & Textile Technologies degree programme? No problem! You can choose from various master programmes, including Saxion's Master in Innovative Textile Development. It's also possible to study for a master degree in another European city, such as in Manchester or Aberdeen where you can choose a master programme specifically focused on the commercial, technical or creative aspects.

# graduated

should it cost? Does this guarantee the right levels of quality and customer satisfaction? For those of you who have a broad range of interests, this approach will allow you to create a combination of designs. However, you can also specialize in a specific area. Whatever you choose, textile materials form the common theme in this programme. This type of specialist knowledge will be your calling card for a multitude of companies both at home and abroad.

## More about the programme

During this four-year degree programme, you gain first-hand experience of working in the industry. You specialize by choosing a topic that is best-suited to your talents. The programme is varied, comprising a mix of lectures, seminars, practical sessions and projects, ensuring all the material covered is directly relevant to practical situations in the textiles business.

## First and second years

In the first two years, you start by laying a broad foundation for the rest of your studies. You set to work on projects related to Buying, Materials and Collections and attend a wide range of lectures on topics including textile basics, business management and marketing. You also work on your linguistic and financial skills.

## Top Talent Programme

From the second year onwards, you can apply for the Saxion Top Talent Programme. This gives you the opportunity to further develop your talents in preparation for an easier and smoother transition to a research university.

## Third and fourth years

In your third and fourth years you study your chosen topic of Buying, Materials or Collections in more depth by doing a minor, spending five to six months as an intern, and doing your Smart Solutions Semester (SSS). During this semester you work in interdisciplinary teams on assignments from companies or one of our research groups implementing technological developments in your field.

## The short degree programme

Have you already completed a three or four-year degree in your home country which is similar to Fashion & Textile Technologies? If so, you could be eligible for the short degree programme. Depending on your previous education, the short degree programme takes one or two years. Please note: This short degree programme is only available for students from partner universities. For more information about the programme content and the requirements for the short degree programme, take a look at [saxion.edu](http://saxion.edu).



Why I chose Fashion & Textile Technologies? I can't go into a store without touching the clothes and thinking about what I would make of that fabric and why. I can't help it. Fashion & Textile Technology challenges me to think beyond that. Exactly which materials are used in this fabric, what is the weave structure and what else could you use it for? By examining fabrics like this I developed a critical eye for other products and materials.

**Jan van Zuilen** Student



# Subject descriptions

## Basic Textiles

### I through VIII

During the first two years Basic Textiles will be taught every quarter. During Basic Textiles I the student learns how to identify fibre types (vegetable, animal and manmade) and learns about the properties and applications of the fibres and yarns. Spinning is also

part of this module. Basic Textiles II and IV consist of weaving/knitting. The student learns the basics of weaving/knitting on industrial machines. In Basic Textiles III nonwovens are covered as well.

During the second year Basic Textiles focuses on textile chemistry and finishing. During textile chemistry the student will acquire knowledge about atoms and

## Curriculum bachelor Fashion & Textile Technologies

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Year 1	Basic Textiles I (3 ECTS)	Basic Textiles II (3 ECTS)	Basic Textiles III (3 ECTS)	Basic Textiles IV (3 ECTS)
	Commerce I (3 ECTS)	Commerce II (3 ECTS)	Commerce III (3 ECTS)	Commerce IV (3 ECTS)
	Presenting and Maths (3 ECTS)	English Grammar (3 ECTS)	Research Outline (3 ECTS)	Business English (3 ECTS)
	Project Into the Future I (6 ECTS)	Project Collection I (6 ECTS)	Project Buying I (6 ECTS)	Project Materials I (6 ECTS)
Year 2	Basic Textiles V (5 ECTS)	Basic Textiles VI (5 EC)	Basic Textiles VII (5 ECTS)	Basic Textiles VIII (5 ECTS)
	Garment Construction Techniques I (3 ECTS)	Garment Construction Techniques II (3 ECTS)	English III (3 ECTS)	General Professional Development (3 ECTS)
	Project Buying II (7 ECTS)	Project Materials II (7 ECTS)	Project Into the Future II (7 ECTS)	Project Collection II (7 ECTS)
Year 3&4	Minor (30 ECTS) Smart Solutions Semester (25 ECTS) & Talent Development (5 ECTS) Internship (30 ECTS)			
	Final Thesis (last semester – 30 ECTS)			

## ‘During the first two years Basic Textiles will be taught every quarter.’

molecules, the periodic system, inter- and intramolecular forces, hydrocarbons, basics of the orbital and hybridisation theory, the basics of polymer chemistry, and structures and properties of textile polymers. During the finishing lessons the students will learn about the pre-treatment processes on several textile materials, colours, dyeing materials and methods, as well as printing coating and lamination. Mechanical and chemical finishing and Fashion Fabrics are part of Basic Textiles VII. During the knitting technology lessons knitwear (warp and weft), and application of knitwear in the technical sector (meditech, protech, mobitech, and Geotech) will be covered as well as knitwear in fashion applications. Last but not least sports fabrics and high-performance textile will be part of Basic Textiles VIII.

### **Commerce I – IV**

In the first year Commerce I-IV will be taught every quarter. In Commerce I the student learns how to set up balance sheets and income statements, will study economical terms, set up a financial plan and calculate and interpret financial ratios. During Commerce II the student learns to understand and describe different key elements of marketing, such as a marketing plan, competitor analysis and B2C buying situations. Besides the analysis of the Boston

Consulting Group, the student learns how to work with the value chain of Porter and the growth strategies. Commerce III is about calculating cost prices, waste and scrap values and defining types of costs. In the second part of the module, the student works with capital budgeting methods; payback period, average book rate of return and net present value. During Commerce IV the student learns to describe the elements of marketing, product and brand, pricing and distribution policies, as well as the elements of promotion and communication policies. The calculation of distribution ratios will be discussed during the second part of the course.

### **English, maths and research**

During the first two years there will be 4 modules which focus on English. During the first quarter of the first year, students will give a professional presentation supported by a PowerPoint presentation. The other part of the module will be a refresher course in maths. The second quarter consists of English grammar at B2 level. During the final quarter of the first year the student learns how to read and understand specialist literature in English during Business and Textile English. During the second year the student will formulate his/her own learning



goals in the field of English. During the module Research Outline in the first year the student will learn how to write a research proposal.

### Fashion

Basic garment construction techniques will be taught during the second year, in the modules Garment construction techniques I and II. The student learns the techniques of basic pattern drafting manually, combined with the execution of several designs on the sewing machine, as well as the concepts and techniques of the basics of digital pattern drafting translated into fitting (digitally and manually).

### Projects

#### Into the Future I and II

During Into the Future I (1st quarter of the first year) the student develops competencies, which are required for a responsible professional, such as how to reflect on your own actions, how to write a report and do proper research and how to organise an effective meeting. The students make a first plan version of their personal development plan. This plan will be updated and discussed four times a year each year. The student also works on basic skills in garment making, fashion history, weaving and knitting, how to work at a chemical and mechanical



laboratory, including safety measures, and Photoshop. Furthermore, the student visits two companies in textiles or fashion as a first contact with the professional field. During the practical lessons, the students work on their portfolio. This portfolio will be continued throughout the four years of the Bachelor Programme.

In Into the Future II (third quarter of the second year) the student learns to formulate a research question, based on the requirements of a company, design a research approach that matches the research question, make well-founded choices in the research process on 1) delineating the research topic, 2) formulating research questions, 3) operationalizing, 4) methods for data



## ‘During the practical lessons, the students work on their portfolio’

collection, 5) validation of conclusions, 6) oral and written presentation of results. The student also learns to carry out a research project in a group that is methodologically sound and is based on a specific research demand from the professional field, cooperate, ask focused question and process feedback and present research results.

### **Collection I and II**

In the first project the students learn how to develop a collection for a specific target group. The key element of Collection II in the second year is the coherence of design & styling, sourcing, retail marketing (sales) and visual merchandising of a global brand in a wide range of apparel products and related accessories. The student will learn to make a realistic collection. The collection needs to be translated visually and digitally into a webshop.

### **Buying I and II**

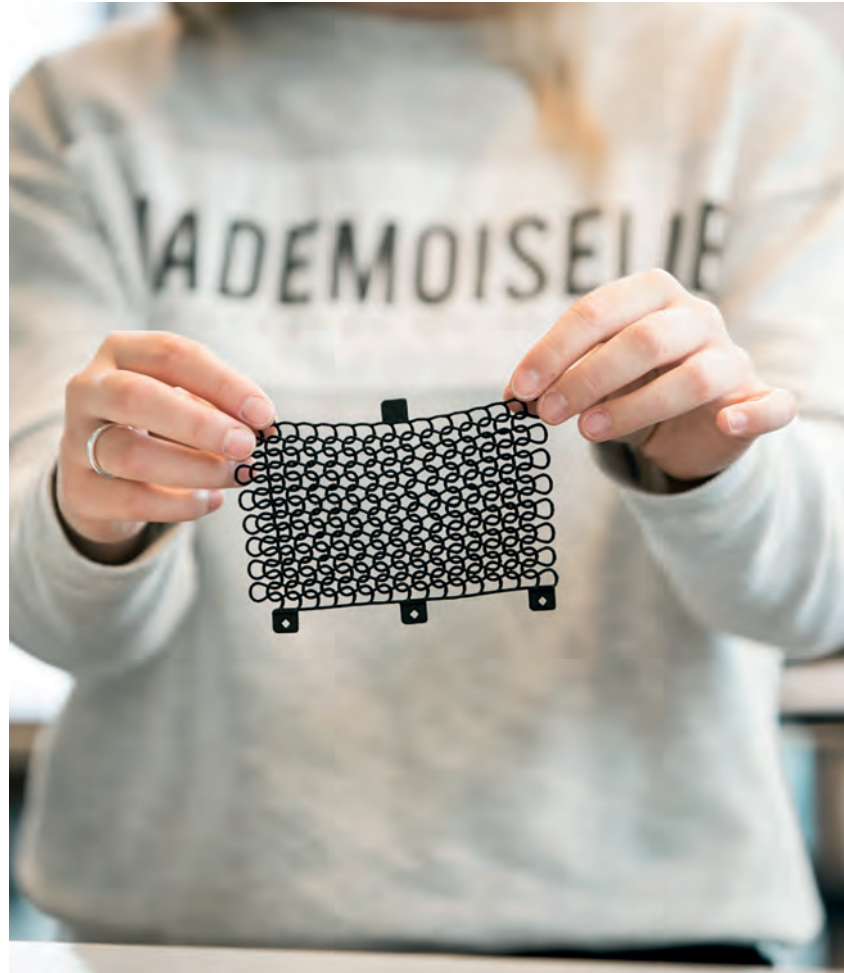
During Buying II the students make a start in how to become an international buyer. They learn about the basic rules of buying, intercultural communication, ethics, laws and regulations, costs and pricing and social responsibility. The supply chain and how to set up product specifications with software like Excel and Illustrator, and to check these specifications with the help of quality research are also part of this project.

During Buying II the students dive deeper into the field of buying. Based on their own product specifications, they will actually place an order with a foreign (fictive) supplier after price negotiation that will proceed with sample making. Within different professional roles, the project group will also develop a new collection including sourcing for material and accessories. Students will learn how to use a PDM system.

### **Materials I and II**

During the project Materials I the student will do research on a textile product of his/her choice. The first part of the project is all about questions and finding the answers. What is it made of? How is it made? Why is it made this way? What are the functional requirements of this product? Why does it look like it does and how was this achieved? Why...?

The second part is about innovation. What can you do to make this product better, different, more sustainable, etc.



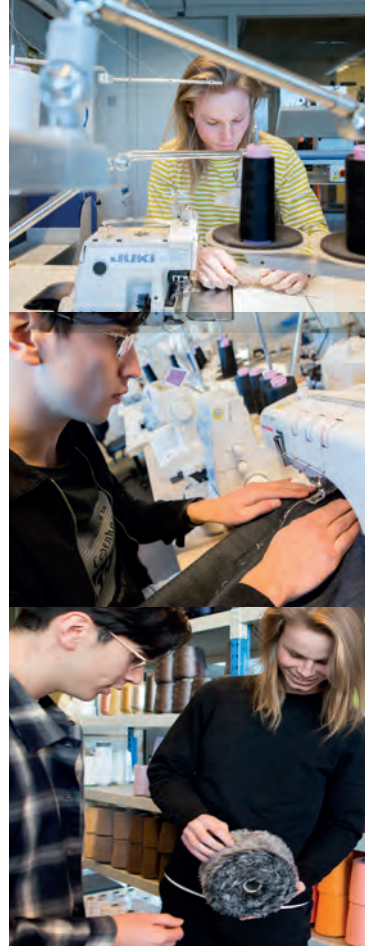
With the guidance of your instructors, the student will develop an innovative alternative for this product.

In Materials II the student takes an existing product and makes a Life Cycle Analysis of the product in order to get a clear insight into the production process. The two most polluting stages within the production process will be selected and a plan will be made to make them more sustainable, in order to achieve an improved ecological footprint. In the end the student delivers the new product and material and a renewed LCA. All of this is done in a methodologically sound manner.

In the third and fourth year, the students complete a minor (for example a semester abroad at one of our many partner institutes), a Smart Solutions Semester and an internship. In the last semester the students write their final thesis at a company or as a free assignment.

## About Saxion

With locations in Apeldoorn, Deventer and Enschede and approximately 26,000 students, Saxion is one of the largest institutes of higher education in the east of the Netherlands. Over the past few years, the number of English-taught programmes has grown considerably. Saxion currently has about 3,500 international students from all over the world: Germany, Finland, Spain, Russia, China and many other countries. Saxion Enschede and Deventer are both located next to the railway station, giving students easy access to all parts of The Netherlands and the rest of Europe. The locations are within walking distance from the city centres.



## Get Ready for a Smart World

Technological innovations have an impact not only on your social life but on your future professional life too.

At Saxion University of Applied Sciences, we teach you how these innovations impact your future professional field and how you can apply technology to perform your work even better, so no matter which programme you choose, you will be prepared for a world that is getting smarter.

Studying at Saxion also means growing as a person. Who are you as a person? Where do your talents lie and what do you want to excel at? We will help you develop a moral compass, build your self-confidence and broaden your horizon. You will learn a lot by doing a work placement or by taking a minor in another programme here, elsewhere in the Netherlands or abroad.

This way, you will learn to take responsibility and prepare yourself for a business endeavour or a challenging job. You are in control!

## More information

To enrol in Fashion & Textile Technologies, first of all you need to meet our general entry requirements. Please check [saxion.edu/entry-requirements](http://saxion.edu/entry-requirements) for more information. If you have any questions about the requirements or the programme itself, feel free to contact the School of Creative Technology:

E-mail: [e.f.w.eijkelenkamp@saxion.nl](mailto:e.f.w.eijkelenkamp@saxion.nl)

Would you like to apply? Start your application procedure at [saxion.edu/application-form](http://saxion.edu/application-form).

## Saxion Enschede

P.O. Box 70.000

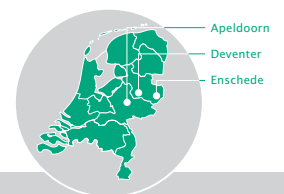
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## Saxion partners



# information

