

# E-TEAM European Textile Engineering Advanced Master

## Background

AUTEX is the worldwide Association of Universities for Textiles. AUTEX currently has 39 members (29 from Europe, 1 from the US, 2 from Africa, 6 from Asia and 1 from Australia). It envisages strengthening academic education and research in the field of textiles. E-TEAM (European Textile Engineering Advanced Master) is the joint international master of AUTEX.



E-TEAM started 20 years ago. The programme is still unique in its concept. It offers students an exceptional level of mobility and high quality education :

- each of the 3 semesters are organised at a different location, the 4<sup>th</sup> semester students can carry out their master thesis at one of the AUTEX members, depending on their personal interest
- each course is taught full time during one week
- the lecturers are recruited from the pool of more than 200 qualified AUTEX professors.

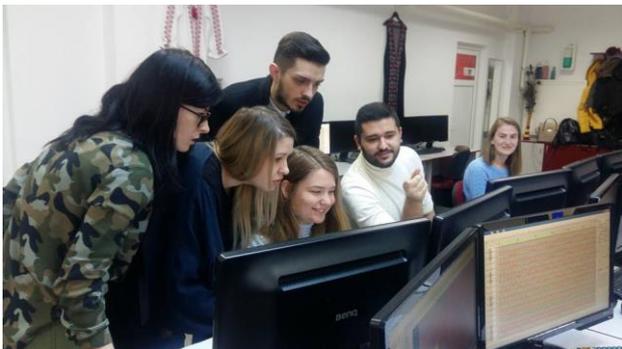
Bringing together the best students, offering them the best AUTEX professors in each field and giving them a multiple international experience adds to their education and personal development.

Global thinking is a main target. At the hosting universities students meet the international professors, local students and local staff. They learn about the expertise and facilities of the host institution as well as regional industry and culture.

The student groups are also diverse in terms of nationality and background. Local students and industry engineers may attend single courses.

No single university can offer the same level of expertise in all areas of textiles, nor the same international experience.

Industry is actively involved. They offer internships, real life cases, subjects for theses, educational materials and company visits. They support study visits and participation at international fairs.



Students can register at UGent or at any of the AUTEX members who accept the E-TEAM programme as a valid exchange programme for the full 4 semesters.

E-TEAM has acquired accreditation in Belgium, the Netherlands and France. An international programme board is responsible for quality surveillance.

## The programme

The edition 2018-2020 is scheduled as follows :

- semester 1: ENSAIT, Roubaix (France)
- semester 2: Lodz University of Technology, Lodz (Poland)
- semester 3: University of Borås, Borås (Sweden)

Semester 1: textile materials and structures (26 credits+3)

No.	Course	Instructor	Contact/ Study	CRDT
1	Advanced fibre and polymer technology	D. Dhooge, NN (UGent)	30/180	6
2	<u>Biomaterials</u>	NN (N. Abidi)	15/90	3
3	<u>Mechanics of Textile Materials</u>	Rimvydas Milasius (Kaunas)	15/90	3
4	<u>Instrumental Analysis</u>	C. Carr (Leeds)	15/90	3
5	Computation sciences and engineering principles for textiles (new)	Henry Yi Li/I. Ciesielska (Manchester/UGent)	25/150	5
6	<u>Industrial Information Systems</u>	Savvas Vassiliadis (Athens)	15/90	3
7	Composite materials	Mikael Skrifvars (Borås)	15/90	3
8	Elective course			3

Semester 2: manufacturing (27 credits+3)

No.	Course	Instructor	Contact/ Study	CRDT
1	<u>Advanced and Specialised Textile Processing - Mechanical</u>	Carmen Visconte Sigita Stanys (Torino/Kaunas)	45/270	9
2	<u>Advanced and Specialised Textile Processing - Dyeing and Finishing</u>	Jakub Wiener/K. Declerck (Lodz/UGent)	30/180	6
3	<u>Biotechnology</u>	V. Nierstrasz (Borås)	15/90	3
4	<u>Nanotechnology in the Textile Branch</u>	Rajesh Mishra (Liberec)	15/90	3
5	<u>Automation and Process Control</u>	Zbigniew Stempień (Lodz)	15/90	3
6	<u>Garment Technology</u>	Dominique Adolphe (Mulhouse)	15/90	3
7	Elective course			3
				30

Semester 3: applications of textiles (28 credits+3)

No.	Course	Instructor	Contact/ Study	CRDT
1	<u>Application of Technical Textiles</u>	Izabella Krucinska/Ada Ferri/NN (Lodz/Torino)	30/180	6
2	<u>Technical Textile Manufacturing Technology</u>	Cornelia Sennewald (Dresden)	15/90	3

3	<u>Innovative Methods for the Product Development Process for Garments and Technical Applications in the Ready-Made Industry</u>	Nazanin Ansari (Dresden)	15/90	3
4	Comfort of textiles	Izabela Ciesielska-Wrobel/H. Yi Li (UGent/Manchester)	15/120	4
5	<u>Intelligent Textiles</u>	Lieva Van Langenhove (UGent)	15/90	3
6	Sustainability in textiles	Bojana Voncina (Maribor)	15/90	3
7	<u>Management, Logistics and Distribution</u>	Rudrajeet Pal/J. Priniotakis (Borås/Athens)	30/180	6
8	Elective course			3

Master’s dissertation (30 credits)

Semester 4

Elective courses

The proposed programme foresees 3 credits of elective courses per semester. This enables students to follow elective courses in each of the hosting institutions, thus taking advantage of specific local expertise, or to attend a summer course or internship. Elective courses can also be offered by AUTEX members who do not want to teach every year or to prepare the implementation of new courses. Efforts will be made to include design and entrepreneurship. These fields are not the active research areas of AUTEX members, although several departments have links with it through joint projects.

Admission requirements

The programme targets academic engineering bachelor graduates with backgrounds in textiles, material science, chemistry, mechanics, bio, industrial design.

Admission of all other diploma’s will be looked at case by case. Possibly a preparatory programme will be proposed. Information on admission requirements and the administrative procedure for admission on the basis of a diploma obtained abroad, can be found on the following page: [www.ugent.be/admission](http://www.ugent.be/admission)

## Our alumni

The textile industry in Europe still is a significant sector, with a turnover of 165b€ in 2014, employing 1.6 million people. It is the second exporter worldwide after China.

In Belgium, the sector has grown again in 2016, after decades of decline. The Belgian textile sector has the highest turnover per employee in Europe.

More than 200 students from all over the world have successfully participated in E-TEAM. They



Annual award for the best E-TEAM student



are employed in all continents. Some are pursuing an academic career, others prefer industry careers. The main employment can be found in textile manufacturing, but also suppliers (chemicals, machines) and end users (medical, construction, furniture, automotive, etc) are important sectors of employment. Having a generic background in engineering, our alumni also find jobs in the chemical industry, food, safety, education, public services and so on.

### Testimonials

**Bram Van Genabet**, graduated in 2010, Industrial digitalisation lead at Barry Callebaut

*The ETEAM programme has had an important positive impact on the course of my life, both professionally and privately. The cooperation between universities, combined with the modular teaching method allows to intensively focus on a broad range of subjects taught by the best professors in their respective fields. Furthermore, the international experience and network resulting from attending the programme is highly valued by future employers. The programme has helped me to build a rewarding and strongly internationally oriented career.*

**Müge Atagun**, Country Manager of Etam Groupe in Turkey and the Middle East region

*This programme has contributed me a lot in terms of personal skills, relationships and leadership.*

**Laura Veldenz**, National Composites Center, UK

*I completed my E-TEAM master in the summer of 2014 and it equipped me with valuable knowledge and the skills to start my PhD directly after. Looking back, it has been a fantastic experience to travel around Europe to visit different Universities. We were exposed to many different insights into research areas presented by different, internationally renowned Professors, this is invaluable and unique to this course. I have met incredible people along the way and this has been a great experience, both professionally and personally.*

**Lakshmi Palaniappan** (India, graduated in 2016)

*I studied in Belgium, France and Turkey. We moved as a class which brought us together over the semesters. Professors came from varying universities in and around partner universities which presented a huge networking opportunity. Through industrial visits in each country, I also came to learn about the culture of European industries.*

*E-TEAM is a perfect option for the student who has a passion for travelling and advancing in the textile industry. Overall, the program was an enlightening experience and one that is so hard to forget.*



Dinner with E-TEAM alumni