

INTERNATIONAL MASTER OF SCIENCE IN TEXTILE ENGINEERING

PROGRAMME JOINTLY OFFERED BY GHEENT UNIVERSITY, UNIVERSITY OF WEST ATTICA, POLYTECHNIC UNIVERSITY OF VALENCIA, UNIVERSITÉ DE HAUTE-ALSACE, UNIVERSITY OF BORÅS, KYOTO INSTITUTE OF TECHNOLOGY

120 ECTS CREDITS - LANGUAGE: ENGLISH

WHAT

The International Master of Science in Textile Engineering is a two-year master's programme in the field of textile engineering. The programme is supported by the European Commission as an Erasmus Mundus Joint Master Degree. It was and still is a unique programme offering advanced education in Textile Engineering in which the latest developments in the textile field as well as contemporary teaching methods are incorporated.

The most renowned specialists from all over the world in the multidisciplinary domain of textiles are brought together and contribute to the educational activities. The programme's objectives are acquisition of advanced knowledge in textile science and engineering, personal development and international networking. Knowledge addresses textile materials, processes and applications. Horizontal learning lines include digital technologies, scientific thinking, entrepreneurship and sustainability. Intensive mobility, multicultural student groups and immersion in local cultures guarantee the development of Intercultural competences. Upon completion of the programme, students are awarded a master degree from the universities where they have spent a semester.

STRUCTURE

The programme of the MSc in Textile Engineering is a full-time two years programme, organised at different locations, lectured in English. The first three semesters are hosted in a different universities (semester 1: Ghent University-Belgium semester 2: rotates between University of West-Attica-Greece, Polytechnic University of Valencia-Spain and University of Haute Alsace-France and in semester 3 students can chose between University of Borås-Sweden and Kyoto Institute of Technology-Japan). The fourth and last semester is dedicated to the dissertation at one of the participating universities. Local and visiting professors teach specific knowledge in course modules that usually cover one or two weeks.

Elective courses allow students to take an international internship or summer school or to follow specialist courses at one of the hosting universities. Next to the traditional lecturing methods, active methods are used such as blended learning, case studies, projects, practical work in laboratories etc. To link theory with practice, industry is actively involved.

Master's Dissertation

The master's dissertation is a requirement for every candidate to obtain a master's degree. The master's dissertation is an original piece of research work. It aims to

develop and strengthen the research capacity skills of the students. The student selects a topic and is given guidance by a promoter or supervisor. The master's dissertation consists of a literature review part, a theoretical reflection and an original analysis of the topic. Students can chose amongst topics proposed by the participating universities. Supervision is guaranteed by three tutors from three participating universities.

LABOUR MARKET

The international degree MSc in Textile Engineering can lead to different careers involving textile knowledge in the broadest sense of the word. Students obtain a thorough understanding of all aspects related to textiles and are hence well-prepared for jobs requiring elaborate knowledge in textiles. Graduates go for a career in academia or industry.

The jobs imply technical functions, R&D functions and (general) management functions mainly in three types of sectors:

- the textile and clothing industry;
- sectors that supply textile companies with raw materials, chemical products and machines;
- end users such as transportation (cars, planes, trains), medical products, furniture and many more.

Employment has an explicit international dimension thanks to the international and global character of the programme itself.

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TOELATINGSVOORWAARDEN VOOR HOUDERS VAN EEN VLAAMS DIPLOMA

1 Na onderzoek van de bekwaamheid van de student om de opleiding te volgen:

- a opleidingen nieuwe structuur:
- Bachelor in de bio-ingenieurswetenschappen
 - Bachelor in de ingenieurswetenschappen, afstudeerrichting: chemie en materialen
 - Bachelor in de ingenieurswetenschappen, afstudeerrichting: chemische technologie
 - Bachelor in de ingenieurswetenschappen, afstudeerrichting: chemische technologie en materiaalkunde
 - Bachelor in de ingenieurswetenschappen, afstudeerrichting: materiaalkunde
 - Bachelor in de ingenieurswetenschappen: chemische technologie en materiaalkunde
 - Master in de industriële wetenschappen: chemie
 - Master in de industriële wetenschappen: industrieel ontwerpen
 - Master in de industriële wetenschappen: textieltechnologie
 - Master of Chemical Engineering Technology
 - Master of Chemistry, op voorwaarde dat het curriculum van de student een major Materials Chemistry omvat
- b opleidingen oude structuur:
- Industrieel ingenieur in chemie
 - Industrieel ingenieur in textiel

2 Op voorwaarde van toelating door de inrichtende faculteit: na het met succes voltooien van een voorbereidingsprogramma:

aantal studiepunten te bepalen door de faculteit

- a opleidingen nieuwe structuur:
- Bachelor in de bio-industriële wetenschappen
 - Bachelor in de industriële wetenschappen: chemie
 - Bachelor in de industriële wetenschappen: elektromechanica
 - Bachelor in de industriële wetenschappen: kunststofverwerking
 - Bachelor in de industriële wetenschappen: textieltechnologie
 - Bachelor in de ingenieurswetenschappen (KMS)
 - Bachelor of Engineering Technology, afstudeerrichting: Chemical Engineering
 - Bachelor of Engineering Technology, afstudeerrichting: Electromechanical Engineering
 - Een diploma van 'Master in Engineering

- Technology'
- Een diploma van een opleiding 'Bachelor of Science in de ingenieurswetenschappen' (met inbegrip van 'architectuur')
 - Een diploma van een opleiding 'Master of Science in de industriële wetenschappen'
 - Master in de wiskunde
- b opleidingen oude structuur:
- Een diploma van 'Industrieel Ingenieur'

Additional Information on Admission (Flemish Degree)

Holders of one of the above-mentioned diplomas who wish to follow the program must present themselves to the Management Board of the program before June 1 of the previous academic year. They cannot be admitted after this date. Students wishing to apply for an Erasmus+ scholarship must apply to the Management Board by 1 March prior to the academic year of registration.

More information: <https://we-team.education/>

ADMISSION REQUIREMENTS FOR INTERNATIONAL DEGREE STUDENTS

The first eligibility criterion concerns the bachelor education of the applicant. Candidates must have at least a Bachelor degree (minimum 180 ECTS credits or equivalent) in the fields related to engineering or science (including but not limited to material science, textiles, chemistry, bioscience, mechanical engineering) including 15 ECTS in mathematics and a total of 10 ECTS pure or applied chemistry and physics or an equivalent level, from a recognised university or engineering college. For applications on the basis of a diploma issued in a country that ratified the Lisbon Recognition Convention, the principles of this convention will be honoured. Students who are about to complete their bachelor degree can be admitted under the condition of successful completion of the bachelor degree by the start of the intake.

For students having a background that does not fully meet the requirements concerning maths, physics and chemistry, the MB may design a preparatory programme that fills the gaps in their education so that upon successful completion of this programme the student meets the first criterion. In such case, the student must have fully completed the preparatory programme by the start of the WE-TEAM programme and successfully pass the full selection procedure for the other criteria.

Students should fill in the online application form and submit

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prior to the set deadlines. More information can be found at <https://we-team.education/the-procedure-in-5-steps/>

LANGUAGE REQUIREMENTS

Language requirements Dutch: no language requirements

Language requirements for this study programme differ from the required standard level for English taught study programmes as specified in the Ghent University Education and Examination Code:

English

- * B2 Cambridge Certificate or an equivalent level
- * IELTS Certificate (with a minimum overall score of 6.5 with at least 6 for writing) or an equivalent level
- * TOEFL Certificate with a minimum score of 570 (paper-based or 86 (internet-based) or an equivalent level
- * TOEIC Certificate with a minimum score of 1560 (calculated as Listening & Reading score + Writing & Speaking score multiplied by 2.5) or an equivalent level

Application Deadline (for International degree students)

Deadline (for all students, both Belgian as international):

For students who **need a visa** and/or **apply for a EMJMD grant**: before 1st of March

For students who **do not need a visa** or **who do not apply for a EMJMD grant**: before 1st of June

Tuition fee

More information is to be found on: www.ugent.be/tuitionfee

Contact

WE-TEAM Coordination Office

we-team@ugent.be

+32 (0) 9 264 57 35

Contact (for international degree students)

International Relations Officer

+32 9 264 36 99

international.ea@ugent.be

<https://we-team.education/>

PRACTICAL INFORMATION

Study programme

studiekiezer.ugent.be/international-master-of-science-in-textile-engineering-en/programma

Information sessions

Graduation Fair

afstudeerbeurs.gent/en/students/further-studies

Open Days

09 March 2024 09u00 - 14u00 - doorlopend - Campus Ardoyen, Technologiepark-Zwijnaarde 126, Gent

Enrolling institution

Ghent University, Kyoto Institute of Technology, University of West Attica, University of Borås, Université de Haute-Alsace, Polytechnic University of Valencia

Information on enrolment at Ghent University.