Course Specifications
Valid as from the academic year 2020-2021

Fibre Materials (EO69040)
Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

Course size
Credits 6.0
Study time 180 h
Contact hrs 60.0 h

Course offerings and teaching methods in academic year 2020-2021
A (semester 1) Dutch Gent practicum 30.0 h
lecture 30.0 h

Lecturers in academic year 2020-2021
De Clerck, Karen TW11 lecturer-in-charge
Daelemans, Lode TW11 co-lecturer

Offered in the following programmes in 2020-2021

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<tr>
<th>Programme</th>
<th>crds</th>
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<tbody>
<tr>
<td>Master of Science in Electromechanical Engineering (main subject Control Engineering and Automation)</td>
<td>6</td>
<td>A</td>
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<tr>
<td>Master of Science in Electromechanical Engineering (main subject Electrical Power Engineering)</td>
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<tr>
<td>Master of Science in Electromechanical Engineering (main subject Maritime Engineering)</td>
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<tr>
<td>Master of Science in Electromechanical Engineering (main subject Mechanical Construction)</td>
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<tr>
<td>Master of Science in Electromechanical Engineering (main subject Mechanical Energy Engineering)</td>
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<tr>
<td>Master of Science in Sustainable Materials Engineering</td>
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<tr>
<td>Master of Science in Materials Engineering</td>
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Teaching languages
Dutch

Keywords
Fibres / textile raw materials.

Position of the course
Making the students familiar with the main fibres as a basis for textile materials. Natural and synthetic fibres are dealt with, as well as their production, properties, use and ecological impact.

Contents
- General introduction: Overview
- Natural fibres: Natural fibres of vegetable origin, Natural fibres of animal origin, Natural fibres of mineral origin
- Synthetic fibres based on natural polymers: cellulose, proteins, biopolymers
- Synthetic fibres based on synthetic polymers: polyamide, polyester, polyvinyl derivates, polyolefins, polyurethanes, glass, metal, others

Initial competences
Basic knowledge of organic chemistry and polymers.

Final competences
1 Know the topics: fibres, textile raw materials.
2 Obtain a good knowledge of fibres: types, production, properties and applications.

Conditions for credit contract
Access to this course unit via a credit contract is determined after successful competences assessment (Approved)
Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Lecture, practicum

Learning materials and price

Slides, supporting course material

References

Course content-related study coaching

Evaluation methods

end-of-term evaluation and continuous assessment

Examination methods in case of periodic evaluation during the first examination period

Oral examination

Examination methods in case of periodic evaluation during the second examination period

Oral examination

Examination methods in case of permanent evaluation

Participation, job performance assessment, report

Possibilities of retake in case of permanent evaluation

Examination during the second examination period is possible in modified form

Extra information on the examination methods

non-periodic evaluation: presence, work attitude and reporting of the practica

Calculation of the examination mark

periodic evaluation: 17 marks out of the total 20, non-periodic evaluation: 3 marks out of the total 20