Course Specifications
Valid as from the academic year 2020-2021

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
(nominal values; actual values may depend on programme)

<table>
<thead>
<tr>
<th>Credits</th>
<th>Study time</th>
<th>Contact hrs</th>
</tr>
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<tbody>
<tr>
<td>3.0</td>
<td>75 h</td>
<td>15.0 h</td>
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</tbody>
</table>

Course offerings and teaching methods in academic year 2020-2021

A (semester 2) Dutch Gent online lecture 0.0 h lecture 15.0 h

Lecturers in academic year 2020-2021

Adriaens, Mieke WE06 lecturer-in-charge
Vandenabeele, Peter WE06 co-lecturer
Vanhaecke, Frank WE06 co-lecturer

Offered in the following programmes in 2020-2021

<table>
<thead>
<tr>
<th>Master of Science in Teaching in Science and Technology (main subject Chemistry)</th>
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<tbody>
<tr>
<td>3</td>
</tr>
<tr>
<td>Master of Science in Chemistry (main subject Analytical and Environmental Chemistry)</td>
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<tr>
<td>3</td>
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<tr>
<td>Exchange Programme in Chemistry (master's level)</td>
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<td>3</td>
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Teaching languages
Dutch

Keywords
Archaeometry, scientific methods of analysis, spectroscopic analysis, materials identification, dating, provenance studies, conservation

Position of the course
Optional course in master of chemistry

Contents
- Position of the research field archaeometry and some typical questions that are encountered in this field. Inorganic materials in archaeology and art history
- Organic materials in archaeology and art history
- Dating techniques, provenancing and trade routes
- Conservation
- Conclusions

Initial competences
Accessible for students with a bachelor of science in chemistry.

Final competences
1. Being able to situate the research field archaeometry, as an interdisciplinary field.
2. Being able to formulate relevant research questions in the field of archaeometry.
3. Having the insight to select appropriate analytical techniques to answer archaeometrical research questions.
4. Insight into the basic operating principles of analytical methods deployable for the investigation of relevant objects / materials to answer archeometric research questions.
5. Understand which degradation phenomena may occur for specific (classes of) materials, and realize the implications.

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, online lecture

Extra information on the teaching methods
   Due to COVID19 alternate teaching methods may be implemented should these prove necessary.

Learning materials and price
   Estimated cost: 15.00 EUR
   Syllabus and presentation via Ufora.

References
   A reference list is present in the lecture notes.

Course content-related study coaching
   Contact with the lecturer, after appointment by email.

Evaluation methods
   end-of-term evaluation

Examination methods in case of periodic evaluation during the first examination period
   Written examination with open questions, written examination with multiple choice questions

Examination methods in case of periodic evaluation during the second examination period
   Written examination with open questions, written examination with multiple choice questions

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation
   not applicable

Extra information on the examination methods
   The examination consists of open questions and multiple choice questions, in which the emphasis is merely on understanding than on reproducing the course content.

Calculation of the examination mark
   written exam: 100%