UNIVERSITY OF GOTHENBURG

DEPARTMENT OF CONSERVATION

KUD112 Advanced Digital Tools for Heritage Conservation, 15 credits

Avancerade digitala verktyg för kulturarvsdokumentation, 15 högskolepoäng

Second Cycle

Confirmation

This course syllabus was confirmed by Department of Conservation on 2020-09-25 to be valid from 2021-01-21, spring semester of 2021.

Field of education: Science 75% and Design 25%
Department: Department of Conservation

Position in the educational system

The course can be part of the following programmes:

1) Digital Humanities, Master Programme (H2DHU),
2) Master of Science in Conservation (N2KUV) and
3) Conservation with Specialization in Conservation of Cultural Heritage Objects, Master's Program (N2KUV)

The course is also given as a single subject course.

The course can be part of the following programmes: 1) Digital Humanities, Master Programme (H2DHU), 2) Master of Science in Conservation (N2KUV) and 3) Conservation with Specialization in Conservation of Cultural Heritage Objects, Master's Program (N2KVP)

Main field of studies	*Specialization*
Conservation	A1N, Second cycle, has only first-cycle course/s as entry requirements

Entry requirements

Appliciants must have a Bachelor of Arts or Bachelor of Science degree (180 hp).

Applicants must prove knowledge of English by an internationally recognized test, for example TOEFL, IELTS, the English proficiency should be equivalent to the level of

English 6/English Course B from Swedish Upper Secondary School.

Learning outcomes

On successful completion of the course the student will be able to:

Knowledge and understanding

- describe how scientific and technological visualisation tools and methods are used in current national and international projects within the field of heritage conservation.
- descibe and evaluate research on scientific and digital documentation and visualisation in the field of heritage conservation.

Competence and skills

- independently complete an analysis, documentation and visualisation of a heritage object or environment utilising digital technologies.
- account and argue for the suitability of different tools in specific situations.

Judgement and approach

- make clear and communicate in speech, imaging, and writing the relationship between scientific knowledge and digital representations of cultural heritage.
- identify, exemplify, and critically analyse ambiguities and ethical problems in computer based documentation and visualisation of cultural heritage.

The course is sustainability-related, which means that at least one of the learning outcomes clearly shows that the course content meets at least one of the University of Gothenburg's confirmed sustainability criteria.

Course content

The course objective is to develop hands-on skills and in-depth understanding of scientific authentication of computer-based documentation and visualisation in the field of heritage conservation. Students are trained to carry out digital documentation of heritage objects, buildings or environments, and to model, simulate and visualise 3D interpretations and associated research data. The course gives the student opportunities to specialize in the tools and methods that the course introduces through specialization and application in an individual project work.

Form of teaching
The course consists of project work, workshops, lectures, and seminars.

Language of instruction: Swedish and English
All lectures will be held in English. Individual instructions may be given in English or Swedish.

Assessment
Examination 1: Assignment, 3 HEC (U-G)
Examination 2: Project Design, 4.5 HEC (U-VG)
Examination 3: Final Project, 7,5 HEC (U-VG)

During which time the assessment of the various examinations take place is stated in the Course Guide.

If there are special reasons, the examiner may allow a different form of examination than what is stated above. In order to Pass the course, or one of the Examinations, supplementary assignments can be offered after assessment and decision by the examiner.

If a student, who has failed the same examined component twice, wishes to change examiner before the next examination, a written application shall be sent to the department responsible for the course and shall be granted unless there are special reasons to the contrary (Chapter 6, Section 22 of Higher Education Ordinance).

In cases where a course has been discontinued or has undergone major changes, the student shall normally be guaranteed at least three examination occasions (including the ordinary examination) during a period of at least one year from the last time the course was given.

Grades
The grading scale comprises: Pass with Distinction (VG), Pass (G) and Fail (U).
To achieve the grade Pass (G) on the entire course, the student needs Pass (G) on examinations 1, 2 and 3.
To achieve Pass with Distinction (VG) on the entire course, the student needs to achieve the grade G on examination 1 and grade VG on examination 2 and 3.

Course evaluation

The evaluation is performed individually through a form at the learning platform and collectively by a scheduled discussion. The result of the course evaluation and any changes in course structure are archived, and will be available at the Department within a reasonable time frame after the course completion and should be handed on to future students the next time the course is offered.

Additional information

All software applications used are available for students on campus or downloadable as freeware or time-limited trials. Access to a personal computer (Mac or Windows) and camera is required.

The language of instruction is in English and Swedish. All seminars and lectures are held in English.

To be able to follow and pass the course the students will need a high level of generic computer skills.