



DEPARTMENT OF CONSERVATION

KUD101 Advanced Digital Tools for Heritage Conservation, 15 credits

Kulturarvsteknologier, 15 högskolepoäng

Second Cycle

Confirmation

This course syllabus was confirmed by Programme Council for Conservation Studies on 2016-02-18 and was last revised on 2019-05-29 by Department of Conservation to be valid from 2019-08-30, autumn semester of 2019.

Field of education: Design 25% and Science 75%

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 (N2KVP)

Main field of studies

Conservation

Specialization

A1N, Second cycle, has only first-cycle course/s as entry requirements

Entry requirements

Bachelor in Conservation (180 credits) or equivalent is required for entry. Students with other academic background relevant to the subject area of conservation, corresponding to at least a Bachelor Degree, can after consideration be given access to the course. English 6 / English B from Swedish Upper Secondary School or the equivalent level of an internationally recognized test, for example TOEFL, IELTS, is a requirement.

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.
- describe 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 aims to give the student knowledge of various technical visualization tools and methods for analyzing, documenting and conveying cultural heritage objects and environments. The course also provides tools for critically evaluating how these tools and methods are used in various current projects and how they affect our representations of the common cultural heritage. With a focus on cultural heritage, documentation and analysis, the course offers an orientation in software and technologies that have a prominent role in contemporary conservation. Time is given for the student to independently study one or more of these tools and methods in cases where supervision is available.

Based on a study of a complex cultural heritage object or a complex cultural environment, the student shall collect data for an individual project. The student is introduced and taught in the use of technologies for documentation, simulation and visualization of historical layers.

Form of teaching

The course consists of field studies, workshops, lectures, and seminars. Participation in the initial fieldwork and the literature seminars is mandatory.

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: Seminars (2.5 credits)

Examination 2: Workshops (2.5 credit)

Examination 3: Assignment (5 credits)

Examination 4: Individual assignment (5 credits)

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).

Examination 1, 2 and 3 are graded with Pass (G) or Fail (U).

Examination 4 is graded with Pass with Distinction (VG), Pass (G) and Fail (U).

For the grade Pass with Distinction (VG) on the whole course, the student needs to achieve the grade VG on Examination 4 and Pass (G) on the other three examinations.

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 in the computer studios or downloadable as freeware or time-limited trials. A personal laptop and camera will facilitate the course and continual individual learning.

The fieldwork may be located in locations that require at maximum two overnight stays.

Travel and accommodation are financed within the course but the students cover all meals.

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