



Faculty of Fine & Performing Arts

KONA07, Introduction to 3D Modelling and Printing, 3 credits

Introduktion till 3d-modellering och 3d-utskrift, 3 högskolepoäng
First Cycle / Grundnivå

Details of approval

The syllabus was approved by Department Board of Malmö Art Academy on 2021-10-04 to be valid from 2021-10-04, autumn semester 2021.

General Information

Artistic techniques, Lund University, Faculty of Fine and Performing Arts, Malmö Art Academy.

Optional course for the BFA programme (KGFKO).

Language of instruction: English

Main field of studies

Fine Arts

Depth of study relative to the degree requirements

GXX, First cycle, in-depth level of the course cannot be classified

Learning outcomes

The course consists of instruction in appropriate artistic techniques.

The aim is to provide students with skills as well as technical and practical knowledge. Major emphasis is placed on the relevance of the technical training to the individual student's artistic work.

Course content

Co3D Printing is a method of creation that requires only some basic computer skills and a few rules of thumb. This class will allow students to discover for themselves the potential and limitations of 3D Printing through an intensive design project. Therefore this course will be an excellent option for someone who lacks skill or a fully equipped workshop but wants to formulate a basic prototype of their idea, artistic creation,

invention and supportive tools for other manufacturing methods.

The student will be able to

To gain knowledge and skills related to 3D printing technologies.

To know basic object scanning skills.

To learn the selection of material, equipment and development of a product.

To understand the various software tools, processes and techniques for digital manufacturing.

To apply these techniques into various applications.

Course design

Example Showcase

Design / Printing Process Overview

A Short History of Digital Manufacturing

Design for 3D Printing

Modelling : Working with Meshes

Modelling : Scanning Tools

Modelling : Editing Scanned Files

Modelling : Fixing Scan Bugs

Printing : Workflow

Printing : Calibration

Printing : Select Printing Material

Teaching is mostly in the form of laboratory work with continuous supervision. After an introductory technical review, the students conduct their own projects.

Assessment

For the grade pass the student needs to be at least 80% present at lectures, seminars and workshops and the grade pass on tasks, if any.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Subcourses that are part of this course can be found in an appendix at the end of this document.

Grades

Marking scale: Fail, Pass.

Entry requirements

General requirements for university studies in Sweden

Subcourses in KONA07, Introduction to 3D Modelling and Printing

Applies from H21

2101 Introduction to 3D Modelling and Printing, 3,0 hp
Grading scale: Fail, Pass