Course syllabus

2D-tekniker
2D Techniques

IDEA05, 5 credits, G1 (First Cycle)

Valid for: 2023/24
Faculty: Faculty of Engineering, LTH
Decided by: PLED ID
Date of Decision: 2023-03-16

General Information

Main field: Industrial Design.
Compulsory for: KID1
Language of instruction: The course will be given in English

Aim

2D drawings and illustrations are an essential part of many contemporary industrial design processes. Upon completion of the course, students shall be confident to independently translate their design intent, using software, into 2D drawings and illustrations for design development and presentation purposes.

Learning outcomes

Knowledge and understanding
For a passing grade the student must

Develop a basic understanding of the fundamentals of 2D drawing and illustration through learning and practicing typical 2D drawing and illustration workflows.

- Mastering software user interfaces, i.e. menus, windows and hotkeys, etc.
- The principles of drawing and illustrating with Cartesian and Bézier geometry via points, lines, curves and closed shapes (Postscript based illustration) as well as image adjustment, retouching and illustrating with pixels (raster graphics based illustration)
- Illustrating with visual plasticity via highlights, shadows, shading and realistic textures
- Working with basic typographic tools
- Interaction between Postscript based illustrations and raster graphics based illustrations

- Image input and output sizes and formats for use in other software for on-screen or online presentation and printing purposes
- Creation and manipulation of PDF files
- Organising complex projects in layers
- Basic laser and water jet cutting of 2D data

Contents

The course consists of group lectures, complemented by individual supervision and homework exercises.

Examination details

Grading scale: UG - (U,G) - (Fail, Pass)
Assessment: 80 % attendance required. The assessment is based on the documentation of the individual assignments.

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.

Admission

The number of participants is limited to: No
The course overlaps following course/s: TNS100

Reading list

- Software manuals, on- and offline help functions, 3rd party websites, online user-forums and discussion groups.

Contact and other information

Course coordinator: Andreas Hopf, andreas.hopf@design.lth.se
Course homepage: http://www.ide.lth.se
Further information: The course contains lectures and individual computer supervision.