KURSPLAN

Design metodik i industriell design projekt, 7,5 högskolepoäng

Design Methodology in Industrial Design Project, 7.5 credits

Kurskod:	TDMS22	**Utbildningsnivå:**	Avancerad nivå
Fastställd av:	VD 2021-03-01	**Utbildningsområde:**	Tekniska området
Reviderad av:	Utbildningschef 2024-10-15	**Ämnesgrupp:**	DE1
Gäller fr.o.m.:	2025-01-01	**Fördjupning:**	A1F
Version:	3	**Huvudområde:**	Produktutveckling

Lärandemål

After a successful course, the student shall;

The student will gain an in-depth knowledge in design methodology and design history. The student will gain a historical perspective to be able to analyze current and future trends. The assignments are intended for the student to practice the influence of form, colors, and shape in human psychology.

Kunskap och förståelse
- display knowledge of color schemes , color schemes and product graphics
- display knowledge of photo render digital models
- demonstrate comprehension of understanding of shape and form problems
- demonstrate comprehension of how to present and communicate designs orally.

Färdighet och förmåga
- demonstrate the ability and skill, without supervision, sketch and illustrate product suggestions.
- demonstrate the ability to give shape proposals and solve form problems
- demonstrate skills of rendering digital models.
- demonstrate the ability to develop 3D models of the FFF machines.

Värderingsförmåga och förhållningssätt
- demonstrate the ability to create their own expressions and mannerisms.

Innehåll

The course includes the mixture of theoretical and practical elements. Focus of the course is to give students the ability to visualize your design through sketches, illustrations, rendered images and physical models.

The course includes the following elements:
- Color Theory

- Animation
- Imaging
- Model Technique
- Aesthetics
- Design Methodology
- Product Methodology
- Sketching
- Rhetoric and Communication

Undervisningsformer

The course is implemented through lectures, supervision, assignments and projects.

Undervisningen bedrivs på engelska.

Förkunskapskrav

The applicant must hold the minimum of a bachelor's degree (i.e., the equivalent of 180 ECTS credits at an accredited university) with at least 90 credits within the major subject Mechanical Engineering or Civil Engineering (with relevant courses in construction and design), and 15 credits Mathematics, or equivalent. Passed the course Advaced CAD 7.5 credits. Proof of English proficiency is required.

Examination och betyg

Kursen bedöms med betygen Underkänd eller Godkänd.

Poängregistrering av examinationen för kursen sker enligt följande system:

Examinationsmoment	Omfattning	Betyg
Inlämningsuppgifter	3 hp	U/G
Projektarbete	4,5 hp	U/G

Kurslitteratur

The literature list for the course will be provided 8 weeks before the course starts.