

AI in your course: 41031 Industrial Design

PURPOSE:

How might we use AI in this course to:

- improve teaching
- improve learning
- improve learning outcomes
- improve evaluation

CURRENT LEARNING OBJECTIVES:

List all the learning objectives for your course

Describe and apply basic industrial design methodology

Identify design related problems and needs in target groups

Formulate design specifications accompanied by mood boards

Select and apply relevant visual communication tools in the different phases of the

Design a consumer product

Build a full scale plastic 3D model of a selected concept

Work independently on an individual design assignment

Argue for a selected design solution through text and illustrations

DESIRED OUTCOME:

Describe the main learning outcomes of this objectives. Be as detailed as possible.

- Develop a range of concept ideas, the broader the better.

- Select the most viable ideas based on design requirements and propose three possible concept directions

- Iterate and develop each concept in more detail

AI AFFECT ON OUTCOME:

How will the use of AI influence these outcomes?

Image generators can influence this activity.

- Positive:
- Create a huge variety of concepts
 - Inspire new ideas
 - Create better looking images compared to sketches
- Negative:
- Unrealistic concepts
 - Unrelated concepts
 - Might introduce bias

SHOULD AI BE USED TO SUPPORT THIS OUTCOME?

Weigh the pros and cons and decide if AI supports

Yes, image generators would be good to use during concept generation.

No, image generators should not be used during concept generation.

HOW SHOULD AI BE USED TO SUPPORT THIS OUTCOME?

Describe how AI can be used in detail.

Students should be introduced to using AI for concept generation

Students should be made aware of the pros & cons

Blah blah blah

WHAT NEEDS TO HAPPEN TO MAKE THIS WORK?

I need to provide a lecture on the use of image generators during concept development

We should have a review session in class to discuss some examples the students generated

Blah blah blah

HOW WILL AI AFFECT THE EXAM / EVALUATION OF THIS LEARNING OUTCOME?

The students are evaluated on their concept SELECTION and argumentation for selecting, not on the process of GENERATING concepts. No changes in the evaluation are necessary for this step, but more emphasis should be put on concept SELECTION.

CRITERIA FOR SUCCESSFUL IMPLEMENTATION

We might consider exploring how many diverse concepts students create using AI vs. manual and consider if the use of AI is leading to more or less creative ideas