

# Dynamic Visualization in New Media

## Basic information of the minor

**Code:** ARTS3048

**Extent:** 25 ECTS

**Language:** English

**Professor in charge:** Lily Díaz, Markku Reunanen, Rupesh Vyas

**Level of the Minor:** Advanced

**Teaching periods:** I-V.

**Target group:** only masters level students

**Quotas and restrictions:** 3-8 available places, no quota.

### Application procedure:

Students from Aalto:: [Instructions for applying](#). Applications only during spring application time.

Students from other Finnish universities apply during the JOOPAS application time in April 1-30 via <https://haku.joopas.fi>.

Needed attachments are a transcript of records and a motivation letter. In the letter the applicant describes his/her background and experience relating to the minor subject applied for as well as indicates his/her learning objectives. Experience in working with digital media is recommended. Selection criteria: 1) educational background relating to the minor subject, 2) working experience or other experience relating to the minor subject, 3) feasible learning goals relating to the minor subject.

**Prerequisites:** Please see application procedure and quotas and restrictions.

## Content and structure of the minor

### Learning outcomes:

From a practical point of view, this thematic area seeks to develop competence in visualization as a key aspect of digital design, with the objective of developing visual literacy and using this skill in the creation of effective information and communication products. From a theoretical point of view, the aim is to provide an understanding of the context of visualization as one involving dynamic processes that are of a biological as well as of a social and cultural nature. The course's focus is on the nature of these processes as well as the role of visualization within them.

### Content

Visualization involves the manipulation of abstract elements, since in many instances its objective is to provide knowledge about phenomena whose essence is not visual, or about artifacts that do not yet exist. For example, a map of its stations does not really resemble a metro itself but rather, outlines the different parts of the system, their location, as well as the process of moving from one part to another. Visualization is closely related to the notion of communication in contemporary culture. The idea of the artist or the designer as an expert in visualization, pre-supposes acquiring familiarity with the iconographic systems of diverse visual cultures. From this point of view the designer works like the anthropologist; s/he becomes familiar with the visual artifacts of the audience s/he is supposed to design for.

### Structure of the minor

Code	Name	Credits
These courses are obligatory in the DVD minor subject		
DOM-E2100	Information design I	3
DOM-E5103	Topics in visualization and cultural analytics	3-6
DOM-E5126	Dynamic visualization	6-8
Student can collect the rest of the needed 25 ECTS credits from these courses:		
DOM-E5108	From data to pixels	3

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DOM-E5111	Interaction design course	3-5
DOM-E5026	Dynamic visualization independent studies	3-6
DOM-E2102	Data now	3
DOM-E5003	Systems of Representation	3-6
DOM-E5025	3D User Interface Design	3-6

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