

GEOMETRIA DESCRITTIVA – BASIC DESIGN – A.A. 2014/2015

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Disegno1 - Basic Design

Training objectives and expected learning outcomes

Appropriation of the two-dimensional space.

The goal of the course is to provide the theoretical principles of design and operational tools to design and communicate the two-dimensional form.

Essential points of teaching are:

- a) Ownership of the tools have always belonged to the designer such as pencil and pen, teams and compasses, brushes and colors, but also those that are the new tools such as computer programs dedicated to graphics.
- b) To provide students with the theoretical and practical principles for the solution of problems that belong to the geometry of the plane.
- c) Analysis of dynamic tensions inherent in the confined space of the two-dimensional compositional field: Survey and analysis on the tensions established through graphic
- d) Survey on the meanings design balance of symmetry and proportion.

In particular, the teaching concerns the correct formation of the designer capable of handling the tools of forms with rigor and creativity to arrive at a conscious design of the two-dimensional compositional space. There will be a subject of common use which will be carried out on the various exercises.

Course progression and topics lessons

1 Exercise. Freehand representation of an object of use.

2nd Exercise. Representation through the methods of representation of the object chosen.

3rd Exercise. Two-dimensional and three-dimensional graphical representation of the object transformed.

Disegno 2 - Geometria Descrittiva

Training objectives and expected learning outcomes

Appropriation of the methods of representation.

Objective of the course is to provide the theoretical and operational instruments to communicate with the techniques of traditional drawing a 'design concept, both as a synthetic, is exhaustive, for the production.

Course progression and topics lessons

Teaching the essential points are:

- a) Appropriation of the intuitive method of representing space. Survey on mutual relationships between geometric entities. Problems of intersection, construction of solid and their intersections. The shadows as a result of a projection from a center or misuse.
- b) Appropriation of the method of oblique and orthogonal axonometric ..
- c) Appropriation of the method of double orthogonal projections.
- d) Appropriation of the method of perspective.

The course aims to provide the theoretical and operational capabilities to project two-dimensional space of a three-dimensional piece of paper - real or mental - and then communicate the exact formal and technical characteristics of the object.

Learning assessment procedures

The course provides for the allocation of exercises for each topic addressed during the lecture in addition to the work done on the topic chosen by each student.

The examination will take place through a theory test time to explore the preparation and the level of maturity reached by each student and during this trial will evaluate the work of the students themselves.

You will enter the exam after verification during the appropriate revisions.

Reference Texts

R. Arnheim - Arte e percezione visiva – 17 ed – Feltrinelli, Milano 2002; A. Marcolli - Teoria del campo – Sansoni, Firenze R 1986 ; R. Bodei - Le forme del bello - Il Mulino, Urbino 2004.

A. Casale - Geometria creativa - Nuovi quaderni di applicazioni della geometria descrittiva, Edizioni Kappa Roma 2010; R. Migliari e AAVV, Geometria descrittiva, De

Agostini editore, Milano 2009. Vol. 1; R. Migliari - Geometria dei modelli, Nuovi quaderni di applicazioni della geometria descrittiva, Edizioni Kappa, Roma 2003.