IL?LUMINACIO D'ESPAIS

Michela Mezzavilla

Supervising Teacher: Michela Mezzavilla

Group: 1
Code: 105726
Credits: 6 ECTS
Course:
Semester: 2
Typology: Optative
Subject: Design Processes
Schedules:

Group	Schedules	Teacher
1	Dimarts 12:00 - 15:00	Michela Mezzavilla

Eina Centre Universitari
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Disseny Art Barcelona

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Teaching Guide Index

EINA

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Subject Presentation

Brief Description:

The subject is organized in two blocks. In the initial block (the first 8 weeks, until the Easter break) the basics of the technical knowledge necessary to begin to understand the behavior and language of light, develop the light imagination, be able to represent light, be able to specify lights and luminaires and define technical characteristics of light will be addressed.
In the final block, from April until the end of the course, the knowledge acquired in the initial block will be applied to develop a lighting project in all phases, from the concept to the specification of lighting solutions.

Training Objectives:

Develop a curious and analytical look at light, behavior and the relationship with spaces and materials.
Be aware of the power of light in visual perception and the configuration of spaces.
Know the language of light, both at the terminology level and at the graphic and representation level.
Learn the basics of lighting technology and lighting design tools.
Develop the light imagination.
Learn the main lighting strategies for different types of spaces
Ultimately, the objective of the course is to provide students with the basic knowledge necessary to independently approach the conception of lighting projects.

Recommendations

No prior knowledge of lighting and lighting technology is required. What is important is to be open to learning a new language, the language of light, open to experimenting with new tools, and willing to start looking at spaces with a new, more curious and attentive eye towards light.

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Contents and Methodology

Brief Description:

Introduction to the subject. The areas of knowledge linked to lighting design.

The language of light. The representation of light.

Properties of materials. Luminaires: history, evolution, types, application cases, reference manufacturers.

Light sources: history, types, characteristics, applications.

Light: physical principles, magnitudes, foundations of light technology. Quantity and quality.

Notions of lighting calculations.

How to make a lighting plan. How to consult a lighting catalog.

Types of lighting projects (for example, residential, workspace, commercial space, hospitality, other possible ones depending on the students' interest.)

The world of lighting. Overview of manufacturers, associations, professions.

Project tutorials.

Teaching methodology:

Theoretical classes will be combined with more practical and experimental sessions, visits to manufacturers and lighting projects carried out. There will be 4 training activities that will correspond to 4 assessments.

Training activities:

ACT 1: Analysis, language and representation of light (25%) (individual -
Theory and representation)

- 18% Presentation (oral and written) and documentation: precision in the use of vocabulary and language, coherence and order in the use of representation systems.
- 6% Active participation in work sessions
- 1% Assistance

ACT 2: Changing space with light (25%) (workshop and project, groups)
- 12% Presentation (oral and written) and documentation: precision in the use of vocabulary and language, coherence and order in the use of representation systems.
- 12% Skill in experimentation and in resolving the briefing.
- 1% Assistance

ACT3: Development of a lighting project (45%) (individual or groups of maximum 2 people depending on the project)
- 12% Lighting concept (coherence, innovation, representation)

- 20% Project development (precision in the use of lighting tools)

- 12% Presentation (oral, written and final documentation)

- 1% Assistance

ACT4: Theory test: 5% (individual)

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Evaluation

General evaluation regulations

A student will be considered "Not Assessable" (NA) if they have not submitted all the learning evidences or have not attended 80% of the classes without justifying their absences. In case of a justified absence, the student must contact the teacher at the time of rejoining to determine the recovery of the activities they missed.

If the student commits any irregularity that may lead to a significant variation in the grade of an evaluation act, that evaluation act will be graded with 0, regardless of the disciplinary process that may be initiated. If several irregularities occur in the evaluation acts of the same subject, the final grade for that subject will be 0.

Continuous evaluation system

The evaluation system of EINA and UAB is a continuous assessment system, the objective of which is for the student to know their academic progress throughout their educational process to allow them to improve it.
The continuous assessment process must include a minimum of three evaluative activities, of two different types, distributed throughout the course, none of which can represent more than 50% of the final grade.

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Review process

If the minimum level of the theoretical and practical tests is not reached, they can be supplemented during the school review period.

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Learning outcomes of the subject

Knowledge

Identify the similarities and differences between a design project and other comparable projects within the current market context. (KT01)

Skills

Apply research and evaluation methodologies specific to the professional design sector targeted by the project. (ST10)

Learning outcomes of the degree program

Skills

Propose design solutions (or solutions in related areas) clearly and precisely, using appropriate vocabulary and techniques of expression and representation.

Competencies

Propose creative, socially and environmentally sustainable design solutions, aligned with the Sustainable Development Goals (SDGs).

Bibliography and Resources

Materials and references to the content covered in class will be shared through presentations and links to websites.

If the student is interested in going deeper, the essential classical reference bibliography is indicated below:

Torres, Elias. Zenithal light. COAC,2005

Valero Ramos, Elisa. The intangible matter. General Construction Editions, 2004.

Junichiro Tanizaki. Praise of the Shadow Leete's Island Books, 1977

Spears & Major: Made of Light: Art of Light and Architecture. Birkhäuser, 2007