

Course guide 210738 - EL - Space and Light

Last modified: 15/07/2024

Unit in charge: Teaching unit:	Barcelona School of Architecture 752 - RA - Departamento de Representación Arquitectónica. 753 - TA - Department of Architectural Technology.		
Degree:	MASTER'S DEGREE IN ADVANCED STUDIES IN ARCHITECTURE-BARCELONA (Syllabus 2015). (Optional subject).		
Academic year: 2024	ECTS Credits: 5.0 Languages: Spanish		
LECTURER			
Coordinating lecturer:	ISABEL CRESPO CABILLO - HELENA COCH ROURA		

Others:	Primer quadrimestre:
	HELENA COCH ROURA - AEMA1
	ISABEL CRESPO CABILLO - AEMA1

TEACHING METHODOLOGY

Go to Spanish or Catalan version

LEARNING OBJECTIVES OF THE SUBJECT

Go to Spanish or Catalan version

STUDY LOAD

Туре	Hours	Percentage
Self study	87,5	70.00
Hours large group	37,5	30.00

Total learning time: 125 h



CONTENTS

title english

Description:

The visual process. Physics of light. Magnitudes and qualities. Natural light-artificial light. Architecture night and day. Analysis of cases. Colour, light and architecture. The light and the lamp. Space, movement and light. Stories of light. Process of designing with light. Sun and shade: light is dark. Slightness and its parameters.

Specific objectives:

To obtain a deep knowledge of light behaviour in architectonic spaces and its repercussion on their user's perception and comfort. This course includes daylight and nightlight behaviour of buildings, and combined evaluation of natural and artificial illumination. The main objective is to make every participant able of reaching a perfect control of the analysis of light environments in architecture and its aesthetic and functional compounds. In this way, it's expected to be able to experiment, with good academic foundations, new approaches in light environments. At the same time, it's considered important to use properly representation techniques that fit on every case presented in the course.

Full-or-part-time: 125h Theory classes: 15h Laboratory classes: 30h Self study : 80h

GRADING SYSTEM

Continuous evaluation (%) Final evaluation (%) SE09 Individual practical exercises 60 SE07 Problem resolution tests 20 SE06 Public and oral presentation in class 20

Continuous evaluation of accomplished work, with a 20% for course's work, 60% for the final work and an additional 20% for attitude and expression capacity during the whole academic phase of the course.

BIBLIOGRAPHY

Basic:

- Rogora, A. Luce naturale e progetto. Rimini: Maggioli Editore, 1997. ISBN 9788838707438.
- Isalgué, A. Física de la llum i el so. Barcelona: Edicions UPC, 1995. ISBN 8476535449.
- Daylighting in architecture: a European reference book. London: James & James, 1993. ISBN 1873936214.
- Weigel, R.G. Luminotecnia: sus principios y aplicaciones. 3a tirada. Barcelona: Gustavo Gili, 1973. ISBN 8425201519.
- Hopkinson, R.G.; Kay J.D. The lighting of buildings. London: Faber & Faber, 1972.

Complementary:

- Kalff, L.C. Creative Light. London: Macmillan, 1971. ISBN 0333123395.
- Larson, L. Lighting and its design. New York: Whitney Library of Design, 1964.