CSP LIGHTING FOR RETAIL AND COMMERCIAL SPACES
Technical file

Credits:
15

Language:
English
Courses in English require an intermediate level, corresponding to TOEFL or IELTS 6.5.

Duration:
from January 16th 2020
to April 24th 2020
The enrolment will be active from January 7th 2020, until the official submission of the student’s records, which will be executed on December 31st 2020.

Timetable:
Monday, Wednesday and alternate
Fridays from 6.30pm to 10.40pm

The educational planning of all IED Master courses is based on the criteria set by the European Higher Education Area (EHEA). IED Master employs a system of credits that follows the structure of the European Credit Transfer and Accumulation System (ECTS). IED issues its own exclusively private Master’s degrees. Some sessions may take place outside these hours in the case of making up for missed classes or extra activities.
Introduction

Whether natural or artificial, light has a strong connection with people and the way they experience the space around them: acting on perception and sensations, and influencing people’s comfort, activity and the choices they make.

Lighting design is, therefore, a crucial part of the design of any space and experience. In Commercial Spaces, it is especially essential, as it determines the overall look and feel of the environment and the well-being and behaviour of the actual users of that space. In hospitality, retail and offices, lighting is closely linked to the brand image, making it a key element to design a complete and consistent user experience, meeting all the commercial requirements. The Lighting for Retail and Commercial Spaces study program teaches how to use light as a powerful tool for design and expression in commercial spaces, an increasingly competitive and changing sector. Artificial lighting technology is nowadays in constant evolution, requiring specific knowledge and expertise in order to fully master its potential.

Christmas Window Display, project by Milena Clausi
General course Objectives

- Acquire a general vision of the art and technique of lighting design.
- Develop complete lighting design projects, from concept through development and execution, with a special focus on commercial spaces.
- Know the available lighting systems, products, and technologies.
- Train in lighting calculation and representation tools.
- Put into practice the knowledge, through workshops, testing, and lighting mock-ups.
- Know the current professional lighting landscape and its multidisciplinary ecosystem.
- Be able to generate powerful projects and communicate them.

Learning Outcomes

These are the theoretical and practical skills acquired throughout the course, including the knowledge, skills and attitude required to perform a specific career activity.

- Understand lighting design culture, terminology, technique, and market.
- Know lighting project typologies.
- Master lighting project tools (calculations, representation, mock-ups).
- Apply lighting design process and methodologies.
- Effectively communicate projects visually and orally.
Target Audience

Graduates in Architecture, Fine Arts, Product Design, Interior Design and Engineering, and other design related profiles who want to get the necessary knowledge for the development of a lighting design project, both under an aesthetic and a technical point of view.

Career Outlook

- Professional Lighting Designers.
- Lighting Design responsible within an architectural, interior design, landscape or engineering office.
- Lighting projects responsible within a lighting manufacturer or distributor firm.
IED Master school provides continuing training, qualifications, specialisations and the chance to keep up-to-date with all aspects of design, backed by the rich historic and cultural heritage of Italian design.

Our strategy for the future is always in tune with social, environmental and financial macrotrends, and we keep a watchful eye on the changes that our cities and surroundings will need to adapt to over the coming 30 years. We believe that we can provide answers and solutions through design.

Our teaching here at IED Master is based on the four scenarios we consider crucial to face the needs of the future: design for sustainable development, design for new business models, design for new media and design for people.

Our goal is to train professionals who are capable of harnessing cultural values and design tools to not only overcome the challenges of the future, but create and drive innovation. We want our students to take responsibility for their training path and learn how to steer it with the support and tutoring of experts and professionals.

At IED Master, we see the School as a laboratory where students can be innovative, enterprising and a driving force; where they are free to experiment and create.
Collaboration with companies

For the students to develop Final Project in the real context of the labour market, we have the collaboration of companies selected by IED Master. The IED Barcelona Master school has collaborated in different lighting projects with companies like Hotel Arts, Osram, Rosco, Dialux, LEDScontrol, LEDCOM, iGuzzini, ERCO, Simon Lighting, Fluvia, Viabizzuno, LAMP, SALVI, Marset, Santa & Cole, JVV, Escenotecnic.
Teaching Programme Content

HISTORY OF LIGHTING
- Brief history of natural and artificial lighting through examples.
- Brief history of representation of light.
- Brief history of the sources of light.

LIGHT CULTURE
- Feel, understand, express the light through its interaction with us and with the objects around us.
- Become aware of light in a more intuitive and spontaneous way.
- Role, interpretation and metaphors of light and shadow.
- Light language: objectives and characteristics of lighting: direction, color, intensity, temporality.

LIGHT AND VISION
- Characteristics of waves, frequency spectrum, dual nature of light.
- The human eye and the vision: properties of the eye, visual process, creation of images, curve of sensitivity of the eye.
- Optical properties of matter: reflection, absorption, refraction.
- Color: theory and symbolism of color, classification of colors, color temperature, chromatic reproduction index, psychic effects of color and its harmony.

LUMINOUS MAGNITUDES
- Fundamental principles of Illuminance: the law of the inverse of the squared distance, the cosine law.

LAMPS
- Thermo radiation and luminescence.
- Conditions that lamps must gather.
- Incandescent lamps, discharge lamps, LED.
- Considerations on consumption, maintenance and sustainability efficiency in lighting solutions.

LUMINAIRES AND THEIR CLASSIFICATIONS
- Classification according to regulations, photometry, or according to the distribution of the luminous flow.
- Constructive features, materials, optics, accessories, filters, effects.

LIGHTING PROJECT
- Analysis of spaces and lighting typologies for different spaces.
- How different lighting solutions affect space.
- Criteria to establish the most suitable lighting system.
- Expression and representation of light: Sketch, studies, renders, images of reference.
- The technical documentation of the lighting project.
- Engineering notions of facilities.
- Electricity notions: how does electricity work in a building, how it is planned and performed in work.
- Calculation programs and simulation of light levels: practical workshop in which the students will learn the basics for using a light calculation program.
- Normative aspects, and notions of professional practice: introduction to the applicable regulations and inherent issues in the professional practice.
- Development of exercises and application on intermediate projects.
- Development of a complete final lighting project.

Please bear in mind that the management board of the Istituto Europeo di Design reserves the right to change the curriculum in accordance with any requirements that may arise as regards its educational objectives.
Coordinator

Michela Mezzavilla

Michela Mezzavilla, architect and lighting designer (APDI) based in Barcelona, Spain, is one of the founders of studio reMM, dedicated to architecture and lighting design. In her carrier she designed all sorts of lighting projects, with various magnitudes and approaches: from big assignments for renowned architect firms such as Rogers Stirk Harbour + Partners or Atelier Jean Nouvel, to small budget projects with clever solutions; from cutting edge installations to low tech artistic set ups. Actively committed to promoting the culture of light through articles, workshops, talks and cultural initiatives, she is the director of the Lighting courses at IED Barcelona and also lectures in several design and architecture universities. Her works have been selected at lighting design Awards such as FAD and Lamp, Iluminet and Panorama.

www.remm.es/remm-lighting-design

At IED Master, a whole range of courses are taught to cover all kinds of training needs: Masters, Postgraduate Courses and Continuing Study Programs. Courses are organised in terms, and can last 3, 6, 9 or 12 months. This means that some courses can be combined within one academic year, while others may be divided depending on how demanding and specialised they are.

**Masters**

60 credits

Top quality courses to specialise in a certain field of design, communication or management. Students gain the know-how, tools and skills to provide professional solutions.

**Postgraduates**

30 credits

An opportunity for all kinds of design professionals to become better qualified.

**Continuing Study Programs (CSP)**

15 credits

These courses are a chance for professionals to update and broaden their knowledge of design and creative methodologies.

**Summer Courses**

In July, IED Barcelona offers students the chance to live an intensive training experience thanks to its broad range of summer courses. Coming to our Summer School is an experimental journey through different courses in which to learn and have fun in an international, multicultural environment. The courses are divided into different levels depending on the student’s profile: Professional, Advanced and Introductory.
The opportunity To combine Courses
Our Partners

IED Barcelona has special relationships with institutions and small, medium and large companies, which take an active part in projects, workshops, talks and activities, with the aim of providing the students with knowledge, communicating experiences and sharing both creative and theoretical aspects with them. All the final thesis are carried out as part of a collaboration with a company, giving the students training in their future profession and helping them develop relationships in the labour market.
IED barcelona has collaborated with more than 100 national and international companies and institutions
# IED community services

## STUDENT CENTER
The aim of the Student Center is to offer a welcome and consultation service to students who need this. It pays particular attention to foreign students, helping them to adapt to their new environment. The department wants to be a place that helps to improve and enrich the experience of being a student at the school in every way possible.

## CAREER SERVICES
This section offers students the possibility of course-related and extracurricular internships with companies in their sector. It also facilitates contacts with the labour market for students who have completed their studies. It enters into direct contact with companies in the different sectors: fashion, design, communications, management, marketing, etc. in order to create collaborative links and offer opportunities of internships and jobs.

## PERSONAL COACHING
Possibility of personal and confidential assistance by an expert psychologist.

## FACILITIES
Practical work is essential in IED Barcelona training, so its premises have basically been divided into classrooms, workshops and laboratories adapted to each area. The school’s facilities include: 26 classrooms, 6 multimedia labs equipped with PCs and Macs, 4 product, interior and transport design workshops, 9 fashion workshops, one printing centre and one photo and video studio.

## IEDTOOLS
Exclusive tools for the IED Community.

Adobe
School’s students can use the software included in the Adobe Creative Suite, without any additional cost, both in the school’s computers and their own laptops. Therefore, all throughout their years enrolled in the school, students can enjoy for free the following applications: Adobe Photoshop® CC, Adobe Illustrator® CC, Adobe InDesign®

Office
All the students can also download the Microsoft Office 365 for free. It includes the software Word, Excel and PowerPoint

Autodesk
School’s students can use Autodesk, world leader in 3D design software for entertainment, manufacturing, engineering, etc. Therefore, the students can enjoy for free applications such as AutoCAD, Maya or 3ds Max, etc.

Emerald, another tool currently used in the most outstanding universities in the fields of management, marketing and communication, is a worldwide editor that connects research and practice for the benefit of society. Students can access to more than 290 magazines and 2,000 books.

## WGSN
The whole IED Community, from computers in the Library, can freely access to WGSN, the leading online platform to analyse and forecast trends in current lifestyles and consumption.

Vogue Italia
Harper’s Bazaar
Digital records of famous magazines, including practically every edition from the very first issue to the most recent ones. All of the content has been indexed and can be accessed via the library computers.

Material ConneXion
The whole IED Community, from computers in the school, can freely access to Material Connexion, the world’s leader database in material innovation.

Gmail
The whole IED Community has an unlimited Gmail account.
General entry requirements

Students must provide the following information:

- Copy of DNI (Spanish students) or passport (foreign students).
- Copy of university degree (bachelor’s, degree or equivalent).
- Letter of motivation in the language of the Master’s degree course.
- CV in the language of the Master’s degree course specifying language and IT skills.
- Language certificate: Courses in English require an intermediate level, corresponding to TOEFL or IELTS 6.5. Courses in Spanish require a B2 language level. If a prospective student has neither of these certificates, his or her language skills will be assessed in a face-to-face interview or via a Skype call.
- Portfolio for creative Master’s degree courses and/or admission exercise if required.

Fees

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<td><strong>Total:</strong></td>
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For information about reductions on the Tuition Fee amount for Anticipated Enrolment please contact the Orientation and Admissions Department.