

# COURSE LED LIGHTING DESIGN

## IX EDITION



### AWARDING BODY

**Laboratorio LUCE**  
Department of Design  
Politecnico di Milano  
Direction: prof. Maurizio Rossi  
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### MANAGEMENT

**Poli.Design** consortium  
of Politecnico di Milano  
[formazione@polidesign.net](mailto:formazione@polidesign.net)

### DURATION

8 hours

### DATE

18 November 2015

### WEBSITE

[www.luce.polimi.it](http://www.luce.polimi.it)

### TEACHERS

Maurizio Rossi  
**Politecnico di Milano**  
Diego Quadrio  
**Studio Quantis**  
Paola Bertoletti  
**Philips**

### TARGET

The course is for students, technicians, graduated and non graduated professionals who wish to know the working principles of solid-state lighting.

### REGISTRATION FEE

Cost of the course is 180 € +IVA. For more info, please contact the Secretariat. Discount of 10% for the members of AIDI, APIL, ASSIL, ASSODEL and ASSOLUCE.

### LANGUAGE

The course can be followed in Italian or English.

### CONTENT OF THE COURSE

Aim of the course is to give notions of fundamentals on Lighting Design with LEDs and of the lighting applications in which the use of LEDs can improve the value of the project. The course starts from an introduction of basic photometry and colorimetry for LEDs light sources and then follows a more specific

discussion on LED technology, needed to evaluate correctly of technical and practical lighting advantages other than the problematic of thermal dissipation and power supply. Afterwards, after presenting the issues related to optics in LED products, the course will deepen the methods for obtaining white light. Particular attention is also dedicated to the analysis of the management opportunities and the dimming of LEDs systems, for their emotional aspects with colored RGB light and for applications that are more functional and related to architecture, with the use of white light with different color temperature. During the course several examples of system obtained with new technology will be shown, addressing aspects of design, plant engineering, aesthetic, decorative and management in indoor and outdoor spaces.

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