

PRACTICE-ORIENTED LEARNING

- Lectures from scientific experts and expert working
 professionals
- Training documents tailored to the needs of its target
 audience
- Field trips

ADMISSION REQUIREMENTS

- Technicians with related work experience in the lighting industry and a degree from a technical college (e.g. HTL).
- Bachelor's or master's degree in electrical engineering, lighting engineering or architecture.
- Bachelor's or master's degree in unrelated disciplines (for example business studies) with appropriate job experience in the lighting industry.







FACTS AND FIGURES

UNIVERSITY COURSE COMPLETION TU Graz certificate

DURATION 2 weeks full-time

DATES

1 to 12 July 2019

COURSE VENUE Graz University of Technology

PARTICIPATION FEES € 3,900 (VAT exempt) including course materials, beverages during the breaks and excursions

REGISTRATION DEADLINE 15 May 2019

ORGANISATION & CONTACT Mag. Vera Poschauko +43 316 / 873 4932 vera.poschauko@tugraz.at

ACADEMIC DIRECTORS Univ.-Prof. MMag. Irmgard Frank Dr. Birgit Schulz, MSc Institute of Spatial Design

DETAILED INFORMATION > www.tugraz.at/go/LLL-Lighting

Partners





UNIVERSITY COURSE

SPATIAL LIGHTING DESIGN

From Technology to Spatial Perception



Spatial Design

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Figures:

SPATIAL LIGHTING DESIGN





FROM TECHNOLOGY TO SPATIAL PERCEPTION

Light is one of the main components of architecture. The wide range of possibilities to draw attention to, accentuate or perfectly illuminate space with lighting is an important factor in the design process.

The **Spatial Lighting Design university course** imparts basic knowledge of the physical principles of light as well as the significance of psychological and physiological parameters of its perception, technical innovations and the basic rules of lighting design. In a practice-oriented module that builds upon this knowledge, participants receive instruction in how to plan and work with light in space. Thanks to the interdisciplinary approach to light and the combination of theoretical input and practice exercises, university course graduates are capable of providing support with and developing architectural lighting solutions.

MODULES AND CONTENT

MODULE I PRINCIPLES OF LIGHT AND LIGHTING

- Principles of lighting technology, optics, the human eye
- Lighting systems and lamps
- Lighting technology of the future
- Lighting applied calculations, Basics
- Standards, light and energy
- Overview into lighting research

MODULE II LIGHT AND ITS EFFECTS

- Light directions and light quality in space
- Seeing and perceiving
- Interdisciplinary approach to light: Chronobiology, physiology, psychology, medicine and art

MODULE III LIGHT AND DESIGN

- Relationships between architecture, space and light
- Introduction to designing with light

MODULE IV PRACTICE

- Principles of light measurement technology in theory and practice
- Design of a lighting concept in a project with a final presentation

FURTHER INFORMATION

> www.tugraz.at/go/LLL-Lighting



Irmgard Frank Head of Institute of Spatial Design Graz University of Technology

Space, its materiality and light are causally linked to each other. – Thanks to the sun, we are spoiled by a multitude of light qualities. That is why we also make an effort to produce them with artificial light. As a result, a trained eye for causal relations and light quality is required as well as thorough basic knowledge of requirements and developments in lighting technology.





Michael Engel Managing Director XAL Holding GmbH

Everyday we experience how great lighting design can be when implemented well. In order to do that, a designer requires a broad set of knowledge from varying disciplines. We are happy to announce that we have found a perfect partner, the TU Graz, in order to share the knowledge of this diverse field in a compact format.