

# **ELEC-E8701 Lighting Technology and Applications (5 cr)**

spring 2019

**LECTURES:** Tuesdays, 10:15 –12:00  
Weeks: 9-22 (26.2. – 28.5.)  
Lecture room: TU7  
Place: TUAS-building, Maarintie 8, 02150 Espoo

**LABORATORY ASSIGNMENTS:** Weeks: 13 and 17

**COURSE EXAMINATION:** Tuesday, 28.5.2019, 9:00 – 12:00  
Lecture room TU7

**LITERATURE:** Handouts (theory, exercises and lecture slides)

**REQUIREMENTS:** Examination, assignments (i.e. seminar work and laboratory exercises) and attendance to lectures

**WWW:** [mycourses.aalto.fi](http://mycourses.aalto.fi)

**RESPONSIBLE TEACHER:** D.Sc. (Tech.) Paulo Pinho, University Lecturer  
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spring 2019

<u>Week</u>	<u>Day</u>	<u>Date</u>	<u>Time</u>	<u>Room</u>	<u>Topic</u>
9	Tue	26.2.2019	10.15-12.00	TU7	Introduction to the course
10	Tue	5.3.2019	10.15-12.00	TU7	LED applications
11	Tue	12.3.2019	10.15-12.00	TU7	Horticultural lighting
12	Tue	19.3.2019	10.15-12.00	TU7	Visual and non-visual aspects of lighting Energy-efficient lighting
13	Tue	26.3.2019	10.15-12.00	TU7	Optics
14	Tue	2.4.2019	10.15-12.00	TU7	Lighting control (Helvar Oy) Human centric lighting (Helvar Oy)
15	Tue	9.4.2019	10.15-12.00	TU7	<u>NO LECTURE</u> (Evaluation week)
16	Tue	16.4.2019	10.15-12.00	TU7	Sustainable lighting - life-cycle approach Exercise – Life cycle assessment
17	Tue	23.4.2019	10.15-12.00	TU7	Future of colorimetry Exercise – Colorimetry
18	Tue	30.4.2019	10.15-12.00	TU7	<u>NO LECTURE</u> (May Day eve)
19	Tue	7.5.2019	10.00-12.00		Excursion to Ensto Lighting Oy Hepolammentie 25, Lohja
20	Tue	14.5.2019	10.15-12.00	TU7	Road and street lighting
21	Tue	21.5.2019	10.00-12.00	TU7	Seminar presentations Course wrap up
22	Tue	28.5.2019	09.00-12.00	TU7	<u>EXAMINATION</u>