

ELEC-E8701 Lighting Technologies and Applications (5 cr)

spring 2021

LECTURES: Tuesdays, 10:15 - 12:00
Weeks: 9 - 22 (3.3. - 1.6.2021)
Place: Online (Zoom)

**LABORATORY
ASSIGNMENTS:** Week 13 (29.3. - 1.4.)
Week 16 (19.4. - 23.4.)

**COURSE
EXAMINATION:** Tuesday, 1.6.2021, 9:00 – 12:00
(Online exam)

LITERATURE: Handouts (theory, exercises and lecture slides)

REQUIREMENTS: Examination and assignments (i.e. seminar work and laboratory exercises)

WWW: mycourses.aalto.fi

**RESPONSIBLE
TEACHER:** D.Sc. (Tech.) Paulo Pinho, University Lecturer
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<u>Week</u>	<u>Day</u>	<u>Date</u>	<u>Time</u>	<u>Room</u>	<u>Topic</u>
9	Tue	2.3.2021	10.15-12.00	Online	Introduction to the course
10	Tue	9.3.2021	10.15-12.00	Online	LED applications
11	Tue	16.3.2021	10.15-12.00	Online	Horticultural lighting Exercise – Horticultural lighting
12	Tue	23.3.2021	10.15-12.00	Online	Visual and non-visual aspects of lighting Quiz 1
13	Tue	30.3.2021	10.15-12.00	Online	Optics
14	Tue	6.4.2021	10.15-12.00	Online	Lighting control and human-centric lighting Quiz 2
15	Tue	13.4.2021	10.15-12.00	Online	<u>NO LECTURE</u> (Evaluation week)
16	Tue	20.4.2021	10.15-12.00	Online	Sustainable lighting: Life-cycle approach
17	Tue	27.4.2021	10.15-12.00	Online	Mesopic lighting Exercise – Mesopic lighting Quiz 3
18	Tue	4.5.2021	10.15-12.00	Online	Future of colorimetry Exercise – Colorimetry
19	Tue	11.5.2021	10.15-12.00	Online	Road and street lighting Quiz 4
20	Tue	18.5.2021	10.15-12.00	Online	Energy-efficient lighting Exercise – Life cycle assessment (Exercise – Road and street lighting)
21	Tue	25.5.2021	10.00-12.00	Online	Seminar presentations Quiz 5
22	Tue	1.6.2021	09.00-12.00	Online	<u>EXAMINATION</u>