

## Preliminary schedule of Lectures and Exercise sessions. 2024

**Thu, 29 Feb** Lecture 1. Introduction. Chapter 1: What Is Light?

**Wed, 6 Mar** Exercise session (deadline Tue, 12 Mar)

**Teacher:**

Anton Kuzyk

[Anton.kuzyk@aalto.fi](mailto:Anton.kuzyk@aalto.fi)

**Thu, 7 Mar** Lecture 2. Chapter 2: Photons and Life

**Wed, 13 Mar** Exercise session (deadline Tue, 1 Mar)

**Teaching assistant:**

Mohammed Al Hussain

[mohammed.alhussain@aalto.fi](mailto:mohammed.alhussain@aalto.fi)

**Thu, 14 Mar** Lecture 3. Chapter 3: Color Vision

**Wed, 20 Mar** Exercise session (deadline Tue, 26 Mar)

**Thu, 21 Mar** Lecture 4. How Photons Know Where to Go

**Wed, 27 Mar** Exercise session (deadline Tue, 2 Apr).

**Teacher:**

Taylor Zachary

[zachary.taylor@aalto.fi](mailto:zachary.taylor@aalto.fi)

**Thu, 4 Apr** Lecture 5. Optical Phenomena and Life

**Wed, 10 Apr** Exercise session (deadline Tue, 16 Apr)

**Teaching assistant:**

Joel Lamberg

[joel.lamberg@aalto.fi](mailto:joel.lamberg@aalto.fi)

**Mon, 11 Apr** Lecture 6. Direct Image Formation

**Wed, 24 Apr** Exercise session (deadline Tue, 30 Apr)

**18<sup>th</sup> Apr Valikoe (first half of the course, i.e., lectures 1-5.)**

**Thu, 25 Apr** Lecture 7. Biophysical constraints and evolution of dim-light vision

**Mon, 29 Apr** Exercise session (deadline Tue, 7 May).

**Teacher:**

Gabriel Peinado Allina

[gabriel.peinadoallina@aalto.fi](mailto:gabriel.peinadoallina@aalto.fi)

**Thu, 2 May** Lecture 8. Phototransduction and the primary rod visual pathway

**Wed, 8 May** Exercise session (deadline Tue, 14 May)

**Teaching assistant:**

Tiihonen Jussi

[jussi.tiihonen@aalto.fi](mailto:jussi.tiihonen@aalto.fi)

**Fri, 10 May** Lecture 9. Chapter 7: Imaging as Inference

**Wed, 15 May** Exercise session (deadline Tue, 21 May).

**Teacher:**

Juho Pokki

[juho.pokki@aalto.fi](mailto:juho.pokki@aalto.fi)

**Tue, 16 May** Lecture 10. Chapter 8: Imaging by X-Ray Diffraction

**Wed, 22 May** Exercise session (deadline Tue, 28 May).

**Teaching assistant:**

Linda Srbova

[linda.srbova@aalto.fi](mailto:linda.srbova@aalto.fi)

**Thu, 23<sup>rd</sup> May** Q & A session (??).

**6<sup>th</sup> June Valikoe (second half of the course, i.e., lectures 5-10)**