

Basics of scientific presentation

Course Workload		Assessment form (examination/ graded test/ ungraded test)
ECTS	Hours	
3	108	Graded test

As part of this course, students will gain the experience of making a scientific presentation. This experience is important for a young scientist both to defend his diploma and to present his scientific results at scientific conferences. Students will gain experience in competently constructing a narrative, as well as conducting a scientific discussion.

Course structure:

1. Introduction to the course

1.1. Introduction to the course

2. Modern trends in nano-optics

- 2.1. 2D nanophotonics
- 2.2. Ultrafast nanophotonics
- 2.3. Hybrid nanophotonics
- 2.4. Material by design for nanophotonics
- 2.5. AI with nanophotonics
- 2.6. Data encryption with nanophotonics
- 2.7. Disease treatment with nanophotonics
- 2.8. Topological photonics
- 2.9. BICs
- 2.10. Optically resonant dielectric metamaterials
- 2.11. Photonic integrated circuits
- 2.12. Nonlinear photonics
- 2.13. Lab-on-Chip
- 2.14. Imaging Technologies
- 2.15. Biosensing
- 2.16. Nanolasers

3. Presentation of scientific results

3.1. Students' research topics