## Hands-on Seminar: Experimental Optics and Atomic Physics (E/A) - physics740

$\overline{Course}$	Hands-on Seminar: Experimental Optics and Atomic Physics (E/A)
Course No.	physics740

		Teachi	Teaching		
Category	Type	Language hours	$\mathbf{CP}$	Semester	
Elective	Laboratory	English 2	3	WT/ST	

## Requirements for Participation:

**Preparation:** Fundamentals of optics and quantum mechanics

Form of Testing and Examination: Credit points can be obtained after successful carrying out the experiments and preparing a written report on selected experiments

Length of Course: 1 semester

Aims of the Course: The students learn to handle optical setups and carry out optical experiments. This will prepare participants both for the successful completion of research projects in experimental quantum optics/photonics and tasks in the optics industry.

## Contents of the Course:

Practical training in the field of optics, where the students start their experiment basically from scratch (i.e. an empty optical table). The training involves the following topics:

- diode lasers
- optical resonators
- acousto-optic modulators
- spectroscopy
- radiofrequency techniques

Recommended Literature: Will be given by the supervisor

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