### Module title
Experimental Physics 4 (Physics of Atoms and Molecules)

### Abbreviation
11-E4-082-m01

### Module coordinator
Managing Director of the Institute of Applied Physics

### Module offered by
Faculty of Physics and Astronomy

### ECTS
6

### Method of grading
Numerical grade

### Only after succ. compl. of module(s)
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### Duration
1 semester

### Module level
Undergraduate

### Other prerequisites
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### Contents
Physical laws of Atomic and Molecular Physics.

### Intended learning outcomes
The students have knowledge of the basic contexts and principles of Atomic and Molecular Physics (atoms: Quantum mechanical atom model, one/multi-electron atoms, electronic dipole transitions, atoms in B field as well as molecules: Bonding models and elementary excitations: rotations, vibrations, electronic excitations)

### Courses
V + Ü (no information on SWS (weekly contact hours) and course language available)

### Method of assessment
Written examination (approx. 120 minutes)

### Allocation of places
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### Additional information
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### Referred to in LPO I
(examination regulations for teaching-degree programmes)

### Module appears in
Bachelor’s degree (1 major) Physics (2008)
Bachelor’s degree (1 major) Nanostructure Technology (2008)
Bachelor’s degree (1 major, 1 minor) Physics (Minor, 2008)