



Universität Ulm

Master of Science Physics (PO 2017)

Seminar How Physics brings Light into Biology

Code 8812875022

ECTS credits 3

Attendance time 2

Language of instruction English

Duration 1 Semester

Cycle irregular

Coordinator Dean of Physics Studies

Instructor(s) Prof. Dr. Jens Michaelis

Allocation of study programmes Physics M.Sc., elective
Physics and Management M.Sc., elective

Recommended prerequisites Fundamentals of biophysics or soft matter physics.

Learning objectives Advanced knowledge of biophysics methods.

Syllabus

- Tracking
- Super-resolution
- Nano positioning system
- Kinetics of molecular machines
- Forces at the nanoscale
- Microfluids

Literature -

Teaching and learning methods Seminar (2 hours per week)

Workload 90 hours

Assessment The credit points will be awarded once the colloquium (presentation and discussion) has been passed. No prerequisites are necessary for exam registration.

Grading procedure The grade of the module will be the grade of the exam.

Basis for Research in biophysics.
