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
-
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<thead>
<tr>
<th><strong>Teaching and learning methods</strong></th>
<th>Seminar (2 hours per week)</th>
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<tbody>
<tr>
<td><strong>Workload</strong></td>
<td>90 hours</td>
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<tr>
<td><strong>Assessment</strong></td>
<td>The credit points will be awarded once the colloquium (presentation and discussion) has been passed. No prerequisites are necessary for exam registration.</td>
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<td><strong>Grading procedure</strong></td>
<td>The grade of the module will be the grade of the exam.</td>
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<td><strong>Basis for</strong></td>
<td>Research in biophysics.</td>
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