## Module title

**FOKUS Research Module Type VMK14N Nanostructure Technology**

### Abbreviation

11-FM-VMK14N-072-m01

### Module coordinator

cmpass

### Module offered by

Chairperson of examination committee

### Faculty of Physics and Astronomy

### ECTS

14

### Method of grading

Numerical grade

### Only after succ. compl. of module(s)

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### Duration

1 semester

### Module level

Graduate

### Other prerequisites

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### Contents

Specific and advanced knowledge of independent scientific work in a current research area, especially in the field of nanostructure technology, reproduction of knowledge, acquisition of social and methodological competencies. Application of the acquired professional knowledge and methods to new scientific questions in a mini research project (e.g. experiments, case studies etc.).

### Intended learning outcomes

The students have special and advanced knowledge of independent scientific work in a current research area, especially in the field of nanostructure technology, and are able to reproduce the acquired knowledge, to apply the acquired methods, to summarise a sub-area of the current research area in an oral presentation and to successfully implement the acquired knowledge and methods in a mini research project.

### Courses

<table>
<thead>
<tr>
<th>Module title</th>
<th>Type</th>
<th>Weekly contact hours</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOKUS Einführungsmodul Nanostrukturtechnik</td>
<td>V</td>
<td>3</td>
<td>German or English</td>
</tr>
<tr>
<td>FOKUS Kompaktseminar Nanostrukturtechnik</td>
<td>S</td>
<td>2</td>
<td>German or English</td>
</tr>
<tr>
<td>FOKUS Miniforschungsprojekt Nanostrukturtechnik</td>
<td>P</td>
<td>2</td>
<td>German or English</td>
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</table>

### Method of assessment

This module has the following assessment components

1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages)
2. Seminar: talk (approx. 30 to 45 minutes)
3. Research project: project report (approx. 8 pages)

Assessment components 1 through 3 will be offered in German or English.

Students must register for assessment components 1 through 3 online (details to be announced).

Details on when assessment components 1 through 3 will be offered to be announced.

To pass this module, students must pass each of the assessment components 1 through 3.

### Allocation of places

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### Additional information

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### Referred to in LPO I (examination regulations for teaching-degree programmes)

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### Module appears in

Master’s degree (1 major) FOKUS Physics - Nanostructuring Technology (2010)

Master’s degree (1 major) FOKUS Physics - Nanostructuring Technology (2006)