**Module title**  
Advanced and Computational Data Analysis

**Abbreviation**  
11-P-FR2-152-m01

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

**Module offered by**  
Faculty of Physics and Astronomy

**ECTS**  
2

**Method of grading**  
Only after succ. compl. of module(s)

**Duration**  
1 semester

**Module level**  
undergraduate

**Other prerequisites**  
Students are highly recommended to complete module 11-P-FR1 prior to completing module 11-P-FR2.

### Contents

Advanced methods of data analysis and error calculation. Distribution function, significance tests, modelling. Computerised data analysis.

### Intended learning outcomes

The students have advanced knowledge of the analysis of measuring data and error calculation. They have mastered methods of computerised data analysis are able to apply them to self-obtained measuring data and to discuss the results.

### Courses

<table>
<thead>
<tr>
<th>Type</th>
<th>Number of weekly contact hours</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>V</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Ü</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

### Method of assessment

Exercises (successful completion of approx. 50% of approx. 10 exercise sheets)  
Assessment offered: Once a year, summer semester

### Allocation of places

--

### Additional information

--

### Referred to in LPO 1 (examination regulations for teaching-degree programmes)

--

### Module appears in

- Bachelor’ degree (1 major) Physics (2015)
- Bachelor’ degree (1 major) Nanostructure Technology (2015)
- Bachelor’ degree (1 major) Mathematical Physics (2015)
- Bachelor’ degree (1 major) Mathematical Physics (2016)