Module title: Preparatory Course Computational Physics
Abbreviation: 11-A1VK-072-m01

Module coordinator: Managing Director of the Institute of Theoretical Physics and Astrophysics
Module offered by: Faculty of Physics and Astronomy

<table>
<thead>
<tr>
<th>ECTS</th>
<th>Method of grading</th>
<th>Only after succ. compl. of module(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>numerical grade</td>
<td>--</td>
</tr>
</tbody>
</table>

Duration: 1 semester  
Module level: undergraduate  
Other prerequisites: Admission prerequisite to assessment: successful completion of approx. 50% of exercises. Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.

Contents:
Introduction to two of the programming languages relevant for students of Physics and Engineering (C++, Mathematica, Java).

Intended learning outcomes:
The students have knowledge of the programming languages taught in university. They are able to implement simple algorithms in these languages.

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:
Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.

Additional information:

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

Module appears in:
Bachelor’ degree (1 major) Physics (2010)  
Bachelor’ degree (1 major) Physics (2012)