### Module description

<table>
<thead>
<tr>
<th>Module title</th>
<th>Abbreviation</th>
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<tr>
<td>Theoretical Physics 1 (Theoretical Mechanics)</td>
<td>11-T1-072-m01</td>
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</table>

**Module coordinator**

Managing Director of the Institute of Theoretical Physics and Astrophysics

**Module offered by**

Faculty of Physics and Astronomy

<table>
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<tr>
<th>ECTS</th>
<th>Method of grading</th>
<th>Only after succ. compl. of module(s)</th>
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<tbody>
<tr>
<td>8</td>
<td>numerical grade</td>
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**Duration**

1 semester

**Module level**

undergraduate

**Other prerequisites**

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### Contents

Newtonian mechanics, Lagrangian mechanics, Hamiltonian equation of motion, conservation laws.

### Intended learning outcomes

The students have knowledge of the principles of classical theoretical mechanics and the required calculation methods.

### 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

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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

- Bachelor' degree (1 major) Mathematics (2008)
- Bachelor' degree (1 major) Mathematics (2007)
- Bachelor' degree (1 major) Physics (2007)
- Bachelor' degree (1 major) Physics (2009)
- Bachelor' degree (1 major) Physics (2008)
- Bachelor' degree (1 major) Nanostructure Technology (2008)
- Bachelor' degree (1 major) Nanostructure Technology (2007)
- Bachelor' degree (1 major) Computational Mathematics (2009)
- Bachelor's degree (1 major, 1 minor) Physics (Minor, 2008)