Module description

**Module title**
Theoretical Electrodynamics

**Abbreviation**
11-ED-092-m01

**Module coordinator**
Managing Director of the Institute of Theoretical Physics and Astrophysics

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

**ECTS**
8

**Method of grading**
Numerical grade

**Only after succ. compl. of module(s)**
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**Duration**
1 semester

**Module level**
Undergraduate

**Other prerequisites**
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**
Principles of electrostatics, magnetostatics, Maxwell equations, covariant formulation, electrodynamics and matter

**Intended learning outcomes**
The students have knowledge of the principles of classical electrodynamics 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, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified)

Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.

**Allocation of places**
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**Additional information**
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**Referred to in LPO I**
(examination regulations for teaching-degree programmes)

**Module appears in**
Bachelor’s degree (1 major, 1 minor) Physics (Minor, 2010)
Bachelor’s degree (1 major) Computational Mathematics (2013)
Bachelor’s degree (1 major) Nanostructure Technology (2012)
Bachelor’s degree (1 major) Computational Mathematics (2012)
Bachelor’s degree (1 major) Mathematics (2012)
Bachelor’s degree (1 major) Mathematics (2013)