

| Module title | | Abbreviation |
|---|-------------------|--|
| Theoretical Physics 2 for Pre Service Teachers - Exercises | | 11-L-T2A-152-m01 |
| Module coordinator | | Module offered by |
| Managing Director of the Institute of Theoretical Physics and Astrophysics | | Faculty of Physics and Astronomy |
| ECTS | Method of grading | Only after succ. compl. of module(s) |
| 5 | numerical grade | -- |
| Duration | Module level | Other prerequisites |
| 1 semester | undergraduate | Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester. |
| Contents | | |
| Exercises in Statistical Physics, thermodynamics and electrodynamics. Among others: Maxwell equations, electrostatics, magnetostatics, dynamic electromagnetic fields, special theory of relativity; heat, entropy, thermal equilibrium, measured variables, efficiency, thermodynamic potentials, phase transitions | | |
| Intended learning outcomes | | |
| The students are able to independently apply the methods of Theoretical Physics to the solution of problems of thermodynamics, electrodynamics and Statistical Physics and to interpret the solutions. | | |
| Courses (type, number of weekly contact hours, language — if other than German) | | |
| Ü (2) Module taught in: Ü: German or English | | |
| Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus) | | |
| written examination (approx. 120 minutes) Language of assessment: German and/or English | | |
| Allocation of places | | |
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| Additional information | | |
| Registration: If a student registers for the exercises and obtains the qualification for admission to assessment, this will be considered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (general academic and examination regulations). If the module coordinators subsequently find that the student has obtained the qualification for admission to assessment, they will put the student's registration for assessment into effect. Only those students that meet the respective prerequisites can successfully register for an assessment. Students who did not register for an assessment or whose registration for an assessment was not put into effect will not be admitted to the respective assessment. If a student takes an assessment to which he/she has not been admitted, the grade achieved in this assessment will not be considered. | | |
| Workload | | |
| 150 h | | |
| Teaching cycle | | |
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| Referred to in LPO I (examination regulations for teaching-degree programmes) | | |
| § 77 I Nr. 1 c) | | |
| Module appears in | | |
| First state examination for the teaching degree Gymnasium Physics (2015) | | |

