

Module title		Abbreviation
Electrodynamics - Exercises		11-T-EA-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	--
Contents		
Exercises in electrodynamics according to the content of 11 T-SEV. Among others Mathematical tools, Maxwell's equations, electrostatics, magnetostatics, Maxwell equations in matter, dynamic electromagnetic fields, electromagnetic waves, special relativity, covariant electrodynamics etc.		
Intended learning outcomes		
The students are familiar with the mathematical methods of theoretical electrodynamics and are able to independently apply them to the description and solution of problems of electrodynamics and to interpret the results in a physical manner.		
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		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor' degree (1 major) Physics (2015) Bachelor' degree (1 major) Mathematical Physics (2015) Bachelor' degree (1 major) Mathematical Physics (2016) Bachelor' degree (1 major) Physics (2020) Bachelor' degree (1 major) Mathematical Physics (2020) exchange program Physics (2023) Bachelor' degree (1 major) Mathematical Physics (2024)		