

	ÜRZBU		5 6 3 6	33 8 2 8	Module description
Module title					Abbreviation
Theoretical Physics 1 for Pre Service Teachers - Exercises					11-L-T1A-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		od of grading	Only after succ. compl. of module(s)		
5	nume	rical 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.		
Conten	ıts				
Exercises in Theoretical Mechanics and Quantum Mechanics. Among others Newton's laws Physical quantities and conservation laws, systems of mass points, reference systems, dimensional motion, Lagrange equations, applications, Hamiltonian dynamics; Schrödinger equation, one-dimensional quantum mechanics, quantum mechanics Abstract (operator formalism), angular momentum, spin					
Intended learning outcomes					
The students are able to independently apply the methods of Theoretical Physics to the solution of problems of theoretical mechanics and quantum mechanics 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					
this wi	ll be co ence 4	nsidered a declaration o ASPO (general academic	f will to seek admissi and examination reg	on to assessment puulations). If the mod	n for admission to assessment, ursuant to Section 20 Subsection ule coordinators subsequently nt, they will put the student's re-

gistration 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

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

§ 77 | Nr. 1 c)

Module appears in

First state examination for the teaching degree Gymnasium Physics (2015)



Module description

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