

Module description

Modu	le title				Abbreviation
Gener	ral Theo	ry of Relativity			11-ART-112-m01
Module coordinator				Module offered by	
Managing Director of the Institute of Theoretical Physics and Astrophysics				Faculty of Physics and Astronomy	
ECTS	CTS Method of grading Only after suc			compl. of module(s)	
4	nume	rical grade			
Duration		Module level	Other prerequisites	5	
1 semester		graduate	sessment. The lectrat the beginning of sidered a declaration dents have obtained the course of the sessment into effected to assessment sessment at a later	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					
ments gener	s of diffe al relativ	erential geometry; el vity; stellar models;		nple of a relativistic	ummary of special relativity; ele- gauge theory; field equations of nulation
Intended learning outcomes					
The students are familiar with the basic physical and mathematical concepts of general relativity. They have a mathematical understanding of the formulation of general relativity on the basis of differential forms. They are able to apply the acquired knowledge to problems of Astrophysics and cosmology.					
Courses (type, number of weekly contact hours, language — if other than German)					
V + R (no information on SWS (weekly contact hours) and course language available)					
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) 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					
Workload					
Teaching cycle					
Poferred to in LPO I (supplied in a supplied for the latest to the lates					
Referred to in LPO I (examination regulations for teaching-degree programmes)					



Module description

Module appears in

Bachelor' degree (1 major) Physics (2010)

Bachelor' degree (1 major) Physics (2012)

Master's degree (1 major) Physics (2010)

Master's degree (1 major) Physics (2011)

Master's degree (1 major) Mathematical Physics (2012)

Master's degree (1 major) FOKUS Physics (2010)

Master's degree (1 major) FOKUS Physics (2011)

Master's degree (1 major) FOKUS Physics (2006)

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