

Module description

Module title					Abbreviation	
Nuclear and Elementary Particle Physics				11-KET-122-m01		
Module coordinator				Module offered by		
Managing Director of the Institute of Applied Physics				Faculty of Physics and Astronomy		
ECTS	Meth	od of grading	Only after succ. co	Only after succ. compl. of module(s)		
6	nume	erical grade				
Duratio	uration Module level		Other prerequisite	Other prerequisites		
			at the beginning of sidered a declarati dents have obtained the course of the s sessment into effected to assessment sessment at a late	sessment. 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.		
Conten	ts					
Nuclea	r mode	els. Structure of nucle	ei. Radioactivity and spe	ctroscopy. Nuclear e	on. Methods of Nuclear Physics. nergy. Radiation and matter. Acconteraction. Standard model.	
Intend	ed lear	rning outcomes				
	· .	understand the basi				

The students understand the basic connections between fundamental Nuclear and Elementary Particle Physics. They have an overview of the experimental observations of Particle Physics and the theoretical models which describe them.

 $\textbf{Courses} \ (\textbf{type, number of weekly contact hours, language} - \textbf{if other than German})$

V + Ü (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)

written examination (approx. 120 minutes)

Allocation of places

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Additional information

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Workload

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Teaching cycle

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$\textbf{Referred to in LPO I} \ \ (\text{examination regulations for teaching-degree programmes})$

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Module appears in

Bachelor' degree (1 major) Mathematics (2012)

Bachelor' degree (1 major) Mathematics (2013)

Bachelor' degree (1 major) Physics (2012)

Bachelor' degree (1 major) Mathematical Physics (2012)

Bachelor' degree (1 major) Computational Mathematics (2012)

Bachelor' degree (1 major) Computational Mathematics (2013)



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JMU Würzburg • generated 20.10.2023 • Module data record 115956