

Module description

Module title					Abbreviation	
Introduction to the Physics of Functional Materials					11-TMS-212-m01	
Module coordinator				Module offered by	Module offered by	
Managing Director of the Institute of Applied Physics				Faculty of Physics	Faculty of Physics and Astronomy	
ECTS	Method of grading		Only after succ. c	Only after succ. compl. of module(s)		
5	nume	nerical grade				
Duration Module level		Other prerequisit	Other prerequisites			
1 semester		undergraduate				
Contents						

Theoretical and practical principles of physical material properties and semiconductor process technology, dielectrics, metals and oxides. Principles of structuring technology, growth and coating procedures.

Intended learning outcomes

The students have knowledge of the theoretical and practical principles of physical material properties and technology for material synthesis.

Courses (type, number of weekly contact hours, language — if other than German)

V(3) + R(1)

Module taught in: 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)

- a) written examination (approx. 90 to 120 minutes) or
- b) oral examination of one candidate each (approx. 30 minutes) or
- c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or
- d) project report (approx. 8 to 10 pages) or
- e) presentation/talk (approx. 30 minutes).

If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.

Language of assessment: German and/or English Assessment offered: Once a year, summer semester

Allocation of places

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Additional information

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Workload

150 h

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's degree (1 major) Functional Materials (2021)

Bachelor's degree (1 major) Functional Materials (2025)

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