### Introduction to the Physics of Functional Materials

**Abbreviation**: 11-TMS-212-m01

**Module coordinator**: Managing Director of the Institute of Applied Physics

**Module offered by**: Faculty of Physics and Astronomy

**ECTS**: 5

**Method of grading**: Only after succ. compl. of module(s)

**Duration**: 1 semester

**Module level**: 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**

V (3) + R (1)

Module taught in: German or English

**Method of assessment**

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.

Assessment offered: Once a year, summer semester

Language of assessment: German and/or English

**Allocation of places**: --

**Additional information**: --

**Referred to in LPO I**

(examination regulations for teaching-degree programmes)

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**Module appears in**

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

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