| Module title | | | Abbreviation |
|---|---|---|---|
| **Functional Materials in Implantology** | | | 03-FU-IMPL-222-m01 |
| **Module coordinator** | | **Module offered by** | |
| holder of the Chair of Musculoskeletal Tissue Regeneration | | Chair of Chemical Technology of Material Synthesis | |
| **ECTS** | **Method of grading** | **Only after succ. compl. of module(s)** | |
| 5 | numerical grade | -- | |
| **Duration** | **Module level** | **Other prerequisites** | |
| 1 semester | -- | -- | |

**Contents**

Anatomy and physiology of the cardiovascular system, sensory organs, skeletal system, jaw incl. tooth structure as well as pathological processes leading to functional impairment or even loss of function. Materials and use of medical implants in the respective area.

**Intended learning outcomes**

Students receive in-depth basic knowledge in human physiology. They will also gain knowledge of pathological processes that can lead to the use of medical materials and implants. The students have knowledge of the application of implants in various organs and tissues and their compatibility and interaction with the organism.

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

V (3) + P (1)

**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) report on work placement (approx. 10 pages) or
b) presentation (approx. 30 minutes) or
c) written examination (approx. 60 minutes)
Language of assessment: German and/or English

**Allocation of places**

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**Additional information**

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**Workload**

150 h

**Teaching cycle**

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

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**Module appears in**

Master's degree (1 major) Functional Materials (2022)
Master's degree (1 major) Functional Materials (2025)