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| Module title | | Abbreviation |
| Structure and Properties of Modern Materials: Experiments and Simulations | | o8-MW-122-m01 |
| Module coordinator | | Module offered by |
| holder of the Chair of Chemical Technology of Material Synthesis | | 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 | graduate | -- |
| Contents | | |
| Material properties of metals and ceramics: correlation of structure/property relations through experiments and simulations. | | |
| Intended learning outcomes | | |
| Students gain an insight into the properties of modern materials: aerospace aluminium alloys and high-performance ceramics. They are introduced to measuring methods and calculation methods using numerical simulation. A special focus is on the relation between the micro/nanoscope structure of materials and the resulting properties. | | |
| Courses (type, number of weekly contact hours, language – if other than German) | | |
| V + S (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) talk (approx. 30 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) | | |
| Allocation of places | | |
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| Additional information | | |
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| Workload | | |
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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 (2012) | | |