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| <b>Module title</b>  |                          | <b>Abbreviation</b>                                |
| Modern Bio Analytical Methods (Lecture and practical course)   |                          | o8-FU-MAM-152-mo1                                  |
| <b>Module coordinator</b>  |                          | <b>Module offered by</b>                           |
| degree programme coordinator Funktionswerkstoffe (Functional Materials)  |                          | Chair of Chemical Technology of Material Synthesis |
| <b>ECTS</b>  | <b>Method of grading</b> | <b>Only after succ. compl. of module(s)</b>        |
| 5  | numerical grade          | --   |
| <b>Duration</b>  | <b>Module level</b>      | <b>Other prerequisites</b>                         |
| 1 semester   | undergraduate            | --   |
| <b>Contents</b>  |                          |  |
| Fundamental principles of spectroscopic methods (UV-VIS, IR, Raman, emission, fluorescence, NMR, etc.), polymer analysis, bioanalytics, imaging methods.   |                          |  |
| <b>Intended learning outcomes</b>  |                          |  |
| Students are familiar with modern analytical and bioanalytical methods.  |                          |  |
| <b>Courses</b> (type, number of weekly contact hours, language – if other than German)   |                          |  |
| V (2) + P (2)  |                          |  |
| <b>Method of assessment</b> (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 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)<br>Assessment offered: Once a year, summer semester<br>Language of assessment: German and/or English<br>creditable for bonus |                          |  |
| <b>Allocation of places</b>  |                          |  |
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| <b>Additional information</b>  |                          |  |
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| <b>Workload</b>  |                          |  |
| 150 h  |                          |  |
| <b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)   |                          |  |
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| <b>Module appears in</b>   |                          |  |
| Bachelor' degree (1 major) Functional Materials (2015)   |                          |  |