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|--|--------------------------|---|
| <b>Module title</b>  |                          | <b>Abbreviation</b>                         |
| Topics in Bioinformatics   |                          | 07-MS2TBI-152-m01                           |
| <b>Module coordinator</b>  |                          | <b>Module offered by</b>                    |
| holder of the Chair of Bioinformatics  |                          | Faculty of Biology                          |
| <b>ECTS</b>  | <b>Method of grading</b> | <b>Only after succ. compl. of module(s)</b> |
| 10   | numerical grade          | --  |
| <b>Duration</b>  | <b>Module level</b>      | <b>Other prerequisites</b>                  |
| 1 semester   | graduate                 | --  |
| <b>Contents</b>  |                          |   |
| Advances and current results of bioinformatics are explained and discussed, this includes results from genome and sequence analysis, protein domains and protein families, large-scale data analysis (e. g. next generation sequences, proteomics data), analysis of different functional RNAs (e. g. miRNAs, lncRNAs).  |                          |   |
| <b>Intended learning outcomes</b>  |                          |   |
| Students are able to understand recent results in bioinformatics and discuss their implications. They have developed an advanced knowledge about typical techniques, scientific objectives and scientific questions.   |                          |   |
| <b>Courses</b> (type, number of weekly contact hours, language – if other than German)   |                          |   |
| V (2) + S (1)<br>Module taught in: English   |                          |   |
| <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 (30 to 60 minutes, including multiple choice questions) or<br>c) oral examination of one candidate each (30 to 60 minutes) or<br>d) oral examination in groups of up to 3 candidates (30 to 60 minutes)<br>Students will be informed about the method, length and scope of the assessment prior to the course.<br>Language of assessment: German and/or English           |                          |   |
| <b>Allocation of places</b>  |                          |   |
| --   |                          |   |
| <b>Additional information</b>  |                          |   |
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| <b>Workload</b>  |                          |   |
| 300 h  |                          |   |
| <b>Teaching cycle</b>  |                          |   |
| --   |                          |   |
| <b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)   |                          |   |
| --   |                          |   |
| <b>Module appears in</b>   |                          |   |
| Master's degree (1 major) Biology (2015)<br>Master's degree (1 major) FOKUS Life Sciences (2015)<br>Master's degree (1 major) Biosciences (2016)<br>Master's degree (1 major) Biosciences (2017)<br>Master's degree (1 major) Biosciences (2018)<br>Master's degree (1 major) Biosciences (2021)<br>Master's degree (1 major) Biosciences (2023)<br>Master's degree (1 major) Biosciences (2024) |                          |   |