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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------|
| <b>Module title</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | <b>Abbreviation</b>                         |
| Selected Topics in Embedded Systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | 10-I=AKES-161-m01                           |
| <b>Module coordinator</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          | <b>Module offered by</b>                    |
| Dean of Studies Informatik (Computer Science)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          | Institute of Computer Science               |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | graduate                 | --                                          |
| <b>Contents</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |                                             |
| Selected topics in embedded systems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                                             |
| <b>Intended learning outcomes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |                                             |
| The students possess specialised knowledge in the area of embedded systems. They are able to understand solutions to complex problems in this area and to transfer them to related questions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |                                             |
| <b>Courses</b> (type, number of weekly contact hours, language — if other than German)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |                                             |
| V (2) + Ü (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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                                             |
| written examination (approx. 60 to 120 minutes).<br>If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).<br>Language of assessment: German and/or English<br>creditable for bonus                                                                                                                                                                                                                                                                                  |                          |                                             |
| <b>Allocation of places</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                                             |
| --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |                                             |
| <b>Additional information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |                                             |
| Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |                                             |
| <b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                                             |
| --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |                                             |
| <b>Module appears in</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                                             |
| Master's degree (1 major) Computer Science (2016)<br>Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)<br>Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)<br>Master's degree (1 major) Computer Science (2017)<br>Master's degree (1 major) Computer Science (2018)<br>Module studies (Master) Computer Science (2019)<br>Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)<br>Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)<br>Master's degree (1 major) Aerospace Computer Science (2020) |                          |                                             |