



| <b>Project Management</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Course number             | 6318                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Hours per week:           | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ECTS:                     | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Scheduled:                | Winter Term                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Format:                   | seminar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Examination:              | Homework with presentation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Lecturer:                 | Prof. Dr. Jochen Krieger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Objectives:               | Students are familiar with the basics of project management. They can set up and structure a project and they use the principle tools of project management. Moreover they are able to carry out a concrete project (LEGO Mindstorms Robot system) with MSPProject.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Contents:                 | <p>Depending on the project phase, they communicate selected content addressing an audience. The cost calculation and finally the hardware and software realization of a robot system is focusing on both, economical and engineering fundamentals.</p> <p>The students work in groups. At the same time they are able to work in interdisciplinary teams and act solution-oriented when difficulties arise.</p> <p>Students create project reports and analyze them. From the assessments they derive measures and identify potential for improvement.</p> <p>Topics covered in the seminar:</p> <ul style="list-style-type: none"><li>– Definition of projects</li><li>– Project Management</li><li>– Planning and organization of projects</li><li>– Communication and cooperation in projects</li><li>– Programming and design of a Lego™ Mindstorms™ robot</li><li>– Project Management with MSPProject</li></ul> |
| Pre-requisites            | Laptop with english version of MSPProject (workaround with university PC pool is offered)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Recommended Reading:      | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |