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| Studiengang: Master of Science Maschinenbau Program: <i>Master of Science in Mechanical Engineering</i> | |  | | |
| 1 | Modul: Seminar 1: Current Topics in Research Module: <i>Seminar 1: Aktuelle Themen aus Forschung und Entwicklung</i> | English <i>Englisch</i> | | |
| | | Semester <i>Semester</i> | Dauer <i>Duration</i> | Status <i>Status</i> |
| | | 2. Semester | 1 Semester | compulsory |
| | Kreditpunkte <i>Credits</i> | Aufwand <i>Workload</i> | Kontaktzeit <i>Contact-hours</i> | Selbststudium <i>Student's efforts</i> |
| | 5 ECTS | 150hrs | 2hrs/week = 30hrs seminar | 30h follow up 90h report and presentation |
| 2 | Beschreibung <i>Description</i> This seminar will prepare the students for the scientific work of the master thesis. An overview of the current R&D trends in mechanical and materials engineering will be given. Detailed information about current R&D projects at the universities participating in this program will be presented and subjects of master theses discussed on scientific level. The underlying scientific information and the project plan have to be presented and defended in the seminar. Presentation methods and organising technical reports will be trained simultaneously. | | | |
| 3 | Lernziele <i>Learning Outcomes</i> <ul style="list-style-type: none"> • The students will gain experience in acquainting themselves with complex R&D topics. • The students will gain an overview of current research topics with special emphasis on the research fields (e.g. at participating universities). • The students will train the scientific writing of technical reports. • The students will get practical training in scientific presentations. | | | |
| 4 | Schlüsselqualifikationen <i>Key qualifications</i> | | | |
| | Sozialkompetenz <i>Social Competence</i> | Methodenkompetenz <i>Competence in Methods</i> | Selbstkompetenz / Personenkompetenz <i>Self-Competence Personal Competence</i> | Interkulturelle Kompetenz <i>Intercultural Competence</i> |
| | | X | X | (X) |
| 5 | Lehrveranstaltung/ -methoden <i>Course type and methods</i> <ul style="list-style-type: none"> • interactive lecture/discussion • exercises, case studies, examples • presentations by students | | | |
| 6 | Vorbedingungen / Vorkenntnisse <i>Prerequisites</i> none | | | |
| 7 | Arbeitsmittel / Literatur <i>Required material / Literature</i> <ul style="list-style-type: none"> • A current list will be distributed at the beginning of the seminar. | | | |

| Detailinformationen | | | | | | | | | | | | | | | | | | | | |
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| 8 | Inhalte <i>Course topics</i> Current topics in R&D Overview worldwide (mechanical engineering, materials engineering) R&D at participating universities Reporting and presentations different types of reports writing of scientific papers and reports different types of presentations presentation techniques exercises Presentations by students introduction to a certain research field first project plan for master thesis | | | | | | | | | | | | | | | | | | | |
| 9 | Prüfungsform <i>Assessment</i> Presentation and reporting exercises, preparation of scientific papers, oral presentations of the scientific papers. | | | | | | | | | | | | | | | | | | | |
| 10 | Voraussetzung für die Vergabe von Kreditpunkten <i>Requirements for granting of credits</i> <ul style="list-style-type: none"> • successful passing of exercises • successful writing of a report • successful oral presentation | | | | | | | | | | | | | | | | | | | |
| 11 | Weiterführende Veranstaltungen <i>Related courses</i> Seminar 2: Guide to Systematic and Scientific Work Master - Thesis | | | | | | | | | | | | | | | | | | | |
| 12 | Zuordnung <i>Classification</i> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 14.28%;">Mathematik & Naturwissenschaft <i>Mathematics & Natural Sciences</i></th> <th style="width: 14.28%;">Ingenieurwissenschaften <i>Engineering Science</i></th> <th style="width: 14.28%;">Ingenieur-anwendungen <i>Engineering Application</i></th> <th style="width: 14.28%;">Entwicklung & Konstruktion <i>Design</i></th> <th style="width: 14.28%;">Werkstoffe <i>Material</i></th> <th style="width: 14.28%;">Wirtschaft, Management, Sprachen <i>General Education</i></th> <th style="width: 14.28%;">Anderes <i>Other</i></th> </tr> </thead> <tbody> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> </tbody> </table> | | | | | | Mathematik & Naturwissenschaft <i>Mathematics & Natural Sciences</i> | Ingenieurwissenschaften <i>Engineering Science</i> | Ingenieur-anwendungen <i>Engineering Application</i> | Entwicklung & Konstruktion <i>Design</i> | Werkstoffe <i>Material</i> | Wirtschaft, Management, Sprachen <i>General Education</i> | Anderes <i>Other</i> | X | X | X | X | X | X | |
| Mathematik & Naturwissenschaft <i>Mathematics & Natural Sciences</i> | Ingenieurwissenschaften <i>Engineering Science</i> | Ingenieur-anwendungen <i>Engineering Application</i> | Entwicklung & Konstruktion <i>Design</i> | Werkstoffe <i>Material</i> | Wirtschaft, Management, Sprachen <i>General Education</i> | Anderes <i>Other</i> | | | | | | | | | | | | | | |
| X | X | X | X | X | X | | | | | | | | | | | | | | | |
| 13 | Modulbeauftragter / Lehrpersonen <i>Responsible person / Lecturers</i> Dipl.-Kaufrau Sandra Achilles / all lecturers from FH-Lübeck | | | | | | | | | | | | | | | | | | | |