

Studiengang: Master of Science Maschinenbau Program: <i>Master of Science in Mechanical Engineering</i>				
1	Modul: Seminar II: Module: Guide to Systematic and Scientific Work <i>Seminar 2: Anleitung zu wissenschaftlichem Arbeiten</i>	English <i>Englisch</i>		
		Semester <i>Semester</i>	Dauer <i>Duration</i>	Status <i>Status</i>
		3. 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	150 hrs	2 hrs/week = 30 hrs seminar	30 h follow up 90 h reports, poster and presentation
2	Beschreibung <i>Description</i> Successful engineers in a professional environment need a lot more skills than only technical expertise: planning and controlling of projects, presentation of own results in working groups or on conferences, discussion of the colleague's work, target group oriented reporting in oral and written form. The master thesis offers a good opportunity to train these skills within this seminar. Moreover, the seminar will guide the students through the master thesis, give support in the evaluation of the results and in writing the theses itself.			
3	Lernziele <i>Learning Outcomes</i> <ul style="list-style-type: none"> • The students will train to plan and control projects systematically, • They will get experience in giving project status reports (in written form and orally) and to develop scientific posters, • The students will learn to understand, assess, and discuss research reports of colleagues. 			
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	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 and poster exhibition 			
6	Vorbedingungen / Vorkenntnisse <i>Prerequisites</i> <ul style="list-style-type: none"> • Knowledge of Word, Excel, and Powerpoint 			
7	Arbeitsmittel / Literatur <i>Required material / Literature</i> A current list will be distributed at the beginning of the seminar.			

Detailinformationen																				
8	Inhalte <i>Course topics</i> Introduction: reports and presentations <ul style="list-style-type: none"> ➤ Typical characteristics of various types of reports (short status reports, lab reports, final project reports, etc.) ➤ Characteristics of different presentations (status report in project meeting, conference speeches, lectures, etc.) ➤ Planning and writing of a master thesis ➤ Characteristics of a handout Status reports, discussions and Workshops <ul style="list-style-type: none"> ➤ Every student will present the project plan of his/her master project incl. preparation and visualization it in a proper manner ➤ Every student will give regular status reports in oral and written form incl. updates of his/her project plan ➤ Every student must actively participate in the discussion of the status reports (questions, hints, ideas) ➤ Every student actively participates in the poster workshop and designs a poster in the given corporate design Final report/Poster exhibition <ul style="list-style-type: none"> ➤ Every student has to present his/her scientific poster which must be based on the master project ➤ Every student must actively participate in the exhibition, related questions and discussions 																			
9	Prüfungsform <i>Assessment</i> <ul style="list-style-type: none"> • Status reports (written and being given orally) • Handouts • Scientific poster exhibition and presentation of the poster (orally) 																			
10	Voraussetzung für die Vergabe von Kreditpunkten <i>Requirements for granting of credits</i> <ul style="list-style-type: none"> • successful writing of status reports and handouts • successful oral presentation of status reports • successful design of a scientific poster and its exhibition 																			
11	Weiterführende Veranstaltungen <i>Related courses</i> none																			
12	Zuordnung <i>Classification</i> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="font-size: small;">Mathematik & Naturwissenschaft <i>Mathematics & Natural Sciences</i></th> <th style="font-size: small;">Ingenieurwissenschaften <i>Engineering Science</i></th> <th style="font-size: small;">Ingenieur-anwendungen <i>Engineering Application</i></th> <th style="font-size: small;">Entwicklung & Konstruktion <i>Design</i></th> <th style="font-size: small;">Werkstoffe <i>Material</i></th> <th style="font-size: small;">Wirtschaft, Management, Sprachen <i>General Education</i></th> <th style="font-size: small;">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>X</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	X
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13	Modulbeauftragter / Lehrpersonen <i>Responsible person / Lecturers</i> Dipl.Kauffrau Sandra Achilles /all lecturers from FH-Lübeck																			