

Module: Seminar II - Guide to Systematic and Scientific Work

Level	Master	Short Name	Sem II
Responsible Lecturers	Sandra Achilles/all lecturers from THL		
Department, Facility	Mechanical Engineering and Business Administration		
Course of Studies	Mechanical Engineering, Master		
Compulsory/elective	Compulsory	ECTS Credit Points	5
Semester of Studies	3	Semester Hours per Week	2
Length (semesters)	1	Workload (hours)	150
Frequency	SuSe and WiSe	Presence Hours	30
Teaching Language	English	Self-Study Hours	120

The following section is filled only if there is **exactly one** module-concluding exam.

Exam Type	Project Work	Exam Language	English
Exam Length (minutes)		Exam Grading System	One-third Grades
Learning Outcomes	<p>Professional key competences achieved and improved by the participants are competence in methods, social competence, media competence, self-competence/personal competence and intercultural competence.</p> <p>Students have learned to plan and control their projects systematically. They are able to present in a professional, scientific manner, create scientific handouts and posters. They are accustomed to explain their work, methods and set-ups to an audience. They are familiar with different type of reports, its presentations and their target groups. The students understand, assess and discuss research reports of colleagues, give recommendation and are familiar with a focus on innovative solutions.</p>		
Participation Prerequisites	third or higher semester		

The previous section is filled only if there is **exactly one** module-concluding exam.

Consideration of Gender and Diversity Issues	<ul style="list-style-type: none"> ✓ Use of gender-neutral language (THL standard) ✓ Target group specific adjustment of didactic methods ✓ Making subject diversity visible (female researchers, cultures etc.)
Applicability	Seminar II
Remarks	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's thesis offers a good opportunity to train these skills within this seminar.

Moreover, the seminar will guide the students through the master's thesis; gives support in the evaluation of the results and in writing the theses itself.

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(of Module: Seminar II - Guide to Systematic and Scientific Work)

Course Type	Seminar	Form of Learning	Presence
Mandatory Attendance	yes	ECTS Credit Points	5
Participation Limit		Semester Hours per Week	2
Group Size	4	Workload (hours)	150
Teaching Language	English	Presence Hours	30
Study Achievements ("Studienleistung", SL)		Self-Study Hours	120
SL Length (minutes)		SL Grading System	

The following section is filled only if there is a course-specific exam.

Exam Type		Exam Language	
Exam Length (minutes)		Exam Grading System	
Learning Outcomes			
Participation Prerequisites			

The previous section is filled only if there is a course-specific exam.

Contents	<p>Course topics are:</p> <p><i>Introduction: reports and presentations</i></p> <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 <p><i>Status reports, discussions and Workshops</i></p> <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 <p><i>Final report/Poster exhibition</i></p> <ul style="list-style-type: none"> • Every student has to present his/her scientific poster which must be based on the master project
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	<ul style="list-style-type: none"> • Every student must actively participate in the exhibition, related questions and discussions <p>Course type and methods are:</p> <ul style="list-style-type: none"> • interactive lecture/discussion • exercises, case studies, examples • presentations by students and poster exhibition
Literature	Literature is given during the seminar.
Remarks	<p><i>Requirements for granting of credits</i></p> <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 presentation in person