


Studiengang: Bachelor of Science Maschinenbau <i>Program: Bachelor of Science in Mechanical Engineering</i>				 FACH HOCHSCHULE LÜBECK University of Applied Sciences
1	Modul: Modern topics in Mechanical Engineering <i>Module: Aktuelle Themen im Maschinenbau</i>			English <i>Englisch</i>
		Semester <i>Semester</i>	Dauer <i>Duration</i>	Status <i>Status</i>
		5. or 6. Semester	1 Semester	elective
	Kreditpunkte <i>Credits</i>	Aufwand <i>Workload</i>	Kontaktzeit <i>Contact-hours</i>	Selbststudium <i>Student's efforts</i>
	4 ECTS	120 hrs	4 hrs/week = 60 hrs Teaching	15 hrs Preparation and postprocessing 45 hrs Self-study
2	Beschreibung <i>Description</i> Being updated at any time is very important in a fast growing and improving world of technologies. The course wants to inform about modern topics in engineering on teaching level. This could either be done by professionals from industry or professors, researchers or lecturers from partner-universities or from own faculty-staff.			
3	Lernziele <i>Learning Outcomes</i> The main target of this course is teaching about actual topics in research, the professional field in industry or other matters of concern in mechanical engineering and/or related subjects.			
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> Lecture • Seminar-like lecture • Exercises and examples (case studies)			
6	Vorbedingungen / Vorkenntnisse <i>Prerequisites</i> Strongly recommended: Mechanical Engineering background from the first 2 years of study.			
7	Arbeitsmittel / Literatur <i>Required material / Literature</i> • Will be distributed in the class, depending on the topic/subject • No explicit course book required			

Detailinformationen																				
8	Inhalte <i>Course topics</i> The topic is depending on the actual trends and needs <ul style="list-style-type: none"> • Introduction into the subject • Describing the problem • State of the art • Picking out the problem • Main topic • Discussion • Summary • Case studies • Preparation for examination 																			
9	Prüfungsform <i>Assessment</i> Prüfungsvorleistung / Prerequisite: none Fachprüfung / Examination: written test																			
10	Voraussetzung für die Vergabe von Kreditpunkten <i>Requirements for granting of credits</i> Successfully passing all individual parts of the examination according to row 9 „Assessment“																			
11	Weiterführende Veranstaltungen <i>Related courses</i>																			
12	Zuordnung <i>Classification</i> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Mathematik & Naturwissenschaft <i>Mathematics & Natural Sciences</i></th> <th style="text-align: center;">Ingenieur- wissenschaften <i>Engineering Science</i></th> <th style="text-align: center;">Ingenieur- anwendungen <i>Engineering Application</i></th> <th style="text-align: center;">Entwicklung & Konstruktion <i>Design</i></th> <th style="text-align: center;">Werkstoffe <i>Material</i></th> <th style="text-align: center;">Wirtschaft, Management, Sprachen <i>General Education</i></th> <th style="text-align: center;">Anderes <i>Other</i></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">(X)</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">(X)</td> <td style="text-align: center;">X</td> </tr> </tbody> </table>						Mathematik & Naturwissenschaft <i>Mathematics & Natural Sciences</i>	Ingenieur- wissenschaften <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> Prof. Dr. Blechschmidt, internal or external personnel																			