MODULE DESCRIPTION											
Abbr.	Description							Lecturer			
BA_G3	Engineering Mechanics I						Zhang				
Position in the study progress, time extent, credit points								Module responsible			
1. Semester, 4 SWH, 6 CP								Zhang			
Applicability, offer frequency											
Study program: Bachelo		r	Module type:	Obligatory Offe			Yearly				
Admission	requi	rements	for examination								
Approved home works.											
Achievement and examination forms, requirements, work expenditure, credit points											
Form of achievement			Requirements				Work	СР	Mark		
							expenditure	0	weights		
Presence, self-study Home works			Written elaborations. Approved home works.				130 h 50 h				
			whiten elaborations. Approved notife works.				3011				
Examination			Examina	tion, duration 2h					100 %		
						-					
Sum							180 h	6	100 %		
Which technical, methodical and practical contents will be conveyed?											
<ul> <li>Introduction to statics of rigid bodies</li> <li>Definition of forces and basic laws in statics of rigid bodies</li> </ul>											
<ul> <li>Plane central force systems</li> </ul>											
General plane central force systems											
<ul> <li>Centroid of parallel forces, centroid of masses, centroid of areas and centroid of lines</li> </ul>											
Bearing reactions											
Forces in members of trusses											
Internal forces in beams and frames											
Internal forces in arched girders											
Adhesion and friction											
Which technical/methodical competence and key qualifications should be gained?											
The students should learn in EM 1 the fundamentals and the methods in statics of rigid bodies. This includes											
the definition and meaning of forces, basic laws in statics of rigid bodies, force systems, equilibrium conditions,											
determination of bearing reactions, and methods for the determination of internal forces in trusses, beams,											
frames and arched girders. In addition, basic knowledge to adhesion and friction is conveyed.											