MODULE DESCRIPTION									
Abbr.	Desc	Description				Lecturer			
BA_G4	Eng	ineering Me	chanics II			Zhang			
Position in	osition in the study progress, time extent, credit points Module responsi						esponsible		
2. Semester, 4 SWH, 5 CP Zhang									
Applicabili	ity, off	er frequency							
Study prog	ram:	Bachelor	Module type:	Obligatory	Offer:		Yearly		
Admission	regui	rements for ex	ramination	•	•		•		

Approved home works.

Achievement and examination forms, requirements, work expenditure, credit points

Form of achievement	Requirements	Work expenditure	СР	Mark weights
Presence, self-study		105 h		
Home works	Written elaborations. Approved home works.	45 h		
Examination	Examination, duration 2h			100 %
	Sur	n 150 h	5	100 %

Which technical, methodical and practical contents will be conveyed?

- Introduction into elastostatics
- Bars and rods under tension and pressure
- Moments of plane area
- Bending of slender prismatic beams
- Shear stress, shear flow and shear center
- Torsion of prismatic bars and rods
- Principle of work and energy, principle of virtual displacements, principle of virtual forces
- Stability of rigid and elastic bodies
- Stress state and deformation state
- Hooke's elasticity law

Which technical/methodical competence and key qualifications should be gained?

In EM II, basic knowledge and methods in elastostatics are conveyed. The students should learn some fundamentals on stresses and strains, Hooke's elasticity law, principle of work and energy, principle of virtual displacements, principle of virtual forces, and the stability problems of rigid and elastic bodies.