

Course number:	6316
Hours per week:	4 (lecture) + 2 (practice sessions)
ECTS:	6
Scheduled:	Summer term
Format:	Lecture and team work
Examination:	Written exam (90 min)
Lecturer:	Prof. Dr. Jochen Krieger
Objectives:	
	 Introduction Mechanics, Newton's laws Statics of particles Rigid Bodies and Equivalent Systems Equilibrium of Rigid Bodies Friction Analysis of Structures Distributed Forces, Centroids and Center of Mass Forces in Beams Mechanics of Materials Concept of Stress Stress and Strain: Axial Loading Deflection of Beams
Pre-requisites	None
Recommended Reading:	Vector Mechanics for Engineers: Statics by Ferdinand Beer, Wiley Engineering Mechanics: Statics by J. L. Meriam, Wiley Mechanics of Materials by Ferdinand Beer, Wiley (all books in current edition)