



Introduction to Mechanics	
Course number:	6316
Hours per week:	4 (lecture) + 2 (practice)
ECTS:	5
Scheduled:	Summer semester
Format:	Lecture and team work
Examination:	Written exam (90 min)
Lecturer:	Prof. Dr. Jochen Krieger
Objectives:	
Contents:	<p>Engineering Mechanics: Statics</p> <ul style="list-style-type: none">▪ 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 <p>Mechanics of Materials</p> <ul style="list-style-type: none">▪ 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)