	HTWK Leipzig, Leipzig University of Applied Sciences				
1177	Module Course code		Cooperative Design Project cDP		
HŤWŔ	Semester		Summer semester		
Leipzig	ECTS, level 5 points, Bachelor's (undergraduate)				
	Language of instruc	ction	English		
	Teaching staff		Prof. DrIng. Johannes Zentner		
Prerequisites	Basics of mechanical engineering, 3D-CAD				
Learning outcomes	Knowledge in - management of developing projects in mechanical engineering - design methodology in mechanical engineering - cooperative techniques Capabilities in - design of products - using of project management methods - using of design methods				
Course contents	Basics of management of developing projects in mechanical engineering - specification - planning - scheduling - control Basics of design methodology in mechanical engineering - problem specification - generation of conceptual solutions for the problem - evaluation and selection of favourite solution - generation of CAD model				
Workload	150 hours, of which 56 hours attendance (14 weeks x 4 hours)				
Pre-examination requirements	None				
Mode of instruction and assessment	Lecture		Seminar	Laboratory Course	Assessment
	1 hour per week	1 ho	our per week	2 hour per week	Cooperative homework
Recommended reading	TOOLEY, M.: Design Engineering Manual, Elsevier, Amsterdam et al., 2010 PAHL, G.; BEITZ, W. FELDHUSEN, J.; GROTE, KH.: Design Engineering, A Systematic Approach. 3rd Edition, Springer, Berlin et al., 2007 ULLMAN, DAVID G.: The Mechanical Design Process. 5th Edition. McGraw-Hill, New York, 2015 CROSS, NIGEL: Engineering Design Methods. Strategies for Product Design. Wiley, 2008 SCHMIDT, TERRY: Strategic Project Management. Practical Tools for Leaders and Teams. Wiley, 2009 Software Microsoft Project Electronic handbooks and scripts				