

Óbuda University, Donát Bánki Faculty of Mechanical and Safety Engineering		Institute of Machine Design and Safety Engineering	
Name and code of the subject: Machine Design II. (English course) BGBGG22NEC			
Credits: 4			
Faculty: mechatronics			
Course leader:	Körtvélyesi Géza hon. associate prof.	Lecturer:	Korondi Endre hon. associate prof.
Prestudy conditions (code)	BGBGG11NEC Machine Design I.		
Weekly teaching hours:	Lecture: 2	Classroom practice.: -	Lab: 1
Type of exam:	term mark		
Curriculum			
The objective of the course: The students study the basic knowledge of structure of machines, loads and design (dimensions, materials and manufacturing). The main topics: fits and tolerances, joints, shafts, power screws, couplings and clutches, bearings (sliding and rolling) – the designs, functions and calculations of the above elements.			
Requirements during the Semester			
Educational weeks			
week 3	fits-tolerances – test	10 p.	
week 5	1st assignment (valve)	10 p	
week 7	2nd assignment (key joint)	15 p.	
week 9	stressing – test	10 p.	
week 12	3rd assignment (coupling)	15 p.	
week 13	closing test	(60 point)	
week 14	evaluation, re-test		
Attendance: compulsory on the 70 % of the classes. Failure of this means no signature for the fulfilment of the semester. No opportunity to retry.			
Midterm grade: minimum for tests and assignments each: 50% maximum 120 points for midterm grade (minimum 60 points) one retry for each test all other details by the Study Regulations			
Bibliography:			
Dr. Elinger, I.- Dr.Goda, T.: Engineering Design (Theory and practice) BMF BGK 3022, 2006 handouts			
The quality control methods of subject: feedback by the quality control meeting of students and teachers			

Budapest, June 06. 2015.

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Course leader