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) *BGBGG2ENND*
Credits: 4

Faculty: **mechatronics**

Course leader:	Körtvélyesi Géza hon. associate prof.	Lecturer:	Korondi Endre hon. associate prof.

Prestudy conditions (code)	**BGBGG1ENND Machine Design I.**

Weekly teaching hours:	Lecture: **2**	Classrom practice.: -	Lab: 1	Consultation: -

Type of exam:	**term mark**

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Curriculum

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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.

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Requirements during the Semester

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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 the70 % 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

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Bibliography:

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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. 2016.

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Course leader