



COURSE DATASHEET

Semester:	2014/15/2
Course:	Machine Elements III.
Code:	VEMKGEB244S
Responsible department:	Institute of Mechanical Engineering
Department code:	MKGEI
Responsible instructor:	dr. Pál Horváth

Course objectives:

Learning the fundamentals of mechanical engineering

Course content:

Gears: basic terms Spur gearing: zero profile displacement Spur gearing: non zero profile displacement Strength calculation Helical gearing Bevel gearing Worm gearing Gear units Slider-crank mechanisms: construction, kinematics Slider-crank mechanisms: dynamics Springs basics Cylindrical compression spring Leaf springs, rubber springs Static seals Dynamic seals

Requirements, evaluation and grading:

2 tests, 2 drawings

Required and recommended readings:

Szalczinger János: Gépelemek II. Zsári Árpád: Gépelemek I., Zsári Árpád: Gépelemek II.