

<i>Name of the subject:</i> Machine Design II. (Machine Elements)	<i>NEPTUN-code:</i> BGBGG2ENND	Credits: 4 ECTS: 5
<i>Subject leader:</i> Dr. Gábor Szunyogh	<i>Title:</i> ass. prof.	
<i>Course description:</i>		
<p>The aim of this course is to provide an overview of repeatedly used simple machine components, their tasks and models applied at dimensioning. This course covers the topics as follows: types of load, friction and rolling resistance, material models, methods of dimensioning on simple and combined static loads and on repeated loads (harmonically varying loads, random varying loads), threaded connection, riveted joint, welded joints (butt seam, fillet seam), soldering, brazing, glued connections, press fitted joints, key joint, pins, shaped joints, dimensioning of shafts, sliding bearings (hydrostatic and hydrodynamic sliding bearings), rolling bearings, couplings (rigid couplings, elastic couplings), clutches.</p>		