

UNIVERSITY OF PANNONIA

COURSE DATASHEET

Semester: 2012/13/1

Course: Materials Handling Equipments and Metal Structures II.

Code: VEMKGEB143B

Responsible department: Department of Mechanical Engineering

Department code: MKGE

Responsible instructor: dr. Imre Timár

Course objectives:

Acquire of the basic knowlidge sizing to the metal structures and welded structures.

Course content:

Materials of metal structures and welded constructions. Fundamentals of thermoelasticity. Thermal stresses and strains. Calculation and measuring of weldeing stresses and strains. Examples. Strenght calculation of welded seams by static loading. Strenght calculation of welded seams by static loading. Examples. Design of belt bridges. Design of belt bridges. Test paper. Strength calculation of welded seams by dinamic loading. Bucling of plates. Examples. Design of compressed beams and section beams. Examples. Design of compressed beams and section beams. Examples. Thick-walled tubes. Test paper. Thick-walled tubes.

Requirements, evaluation and grading:

Minimum pass mark from papers (30 %) and prepare one individual project

Required and recommended readings:

Farkas J.: Fémszerkezetek. Tankönyvkiadó, Budapest, 1983.; Halász O.-Platthy P.: Acélszerkezetek. Tankönyvkiadó, Budapest, 1989.