



SUBJECT DATASHEET

Semester:	2009/10/1
Subject:	Materials Handling Equipments and Metal Structures II.
Code:	VEMKGEB143B
Responsible department:	Department of Mechanical Engineering
Responsible department code:	MKGE
Responsible lecturer:	dr. Imre Timár

Educational objectives:

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

Detailed content of the subject:

Materials of metal structures and welded constructions. Fundamentals of thermoelasticity. Thermal stresses and strains. Calculation and measuring of welding stresses and strains. Examples. Strength calculation of welded seams by static loading. Strength calculation of welded seams by static loading. Examples. Design of belt bridges. Design of belt bridges. Test paper. Strength calculation of welded seams by dynamic loading. Buckling 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:

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

Required and suggested references:

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