



COURSE DATASHEET

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| Semester: | 2014/15/1 |
| Course: | Machine Elements II. |
| Code: | VEMKGEB112S |
| Responsible department: | Institute of Mechanical Engineering |
| Department code: | MKGEI |
| Responsible instructor: | dr. Pál Horváth |

Course objectives:

Learning the fundamentals of machine elements

Course content:

Design of Shafts under static load Design of Shafts under fatigue load Shaft couplings (permanent connection) Shaft couplings (part-time connection) Bearings (construction, installation) Calculation of bearings Journal bearings Flat belt drives Vee belt drives Friction drives Chain drives Shoe breaks Belt type Breaks Pipeline calculatin, pipe connections Pipe fixing, armatures, expansion joints

Requirements, evaluation and grading:

2 tests (common with practice)

Required and recommended readings:

Szalczinger János: Gépelemek, Veszprémi Egyetemi Kiadó, Veszprém, 2004, VE 77/2004 Zsári Árpád: Gépelemek I., Zsári Árpád: Gépelemek II. Nemzeti Tankönyvkiadó, Budapest, 1989.