

Course name: TECHNICAL INFORMATICS I.

Course code: YCRMIN1BNF

Hours per week: 3 practice / F: final mark/ credits: 6

Department of Construction Technology and Management

In charge: Dr. Gergely Mészáros

For students of BSc in Civil Engineering

Pre-requirements for Erasmus students: none

OBJECTIVE OF THE COURSE:

During the course students gain application-level knowledge of data management and calculation. Learn basic data management theory and solve practical engineering problems using generic spreadsheet and database management systems. Practical training takes place in computer labs.

14 WEEKS SCHEDULE:

1. week: Spreadsheet basics 1.
2. week: Spreadsheet basics 2.
3. week: Data management in spreadsheets
4. week: Solving engineering problems 1.
5. week: Solving engineering problems 2.
6. week: Test #1: Spreadsheet calculations
7. week: Database basics
8. week: Data queries in SQL
9. week: Database design basics
10. week: Database planning and optimization basics
11. week: Data extraction, manipulation
12. week: Advanced queries
13. week: Test #2/#3: Databases and IT concepts
14. week: Supplementary exams

Assesment:

lab tests (computational tasks and multiple choice test)

