



COURSE DATASHEET

Semester:	2012/13/2
Course:	Material Handling
Code:	VEMKGEN244A
Responsible department:	Department of Mechanical Engineering
Department code:	MKGE
Responsible instructor:	Dr. Sándor Verdes

Course objectives:

The subject is prepared first of all for technical manager students. Knowledge from process engineering, particle technology, materials handling is to be delivered. Including introduction to machines, technologies and technical parameters, testing etc. in the field of comminution, classification, separation, size-enlargement, materials handling etc.

Course content:

Characterisation of materials.
Tests, measurements, sampling, distributions, mathematical description.
Theory of size-changing processes.
Basics of classification, separation. Negative phenomena.
Mixing, homogenisation.
Basics of materials treatment.
Storage. Silos, bunkers.
Machines in comminution. Milling, mills.
Sieves, classifiers. Dust precipitation.
Logistics.
Modern solutions in material transport. Uni/multi/intermodal systems.
Storage technics and devices.
Special and hazardous materials.
Design, managing, automation, process control.
Overview examples.

Requirements, evaluation and grading:

Required and recommended readings:

Beke Béla: Aprításmélet, Akadémiai Kiadó, Budapest,. 1963.
Tanszéki összeállított anyag ill. az abban felsorolt további szakirodalom.
Prezenszki József: Logisztika I, és Logisztika II, BME Mérnöktovábbképző Intézet, 1995.



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Required and recommended readings:

Fábry Gy.: Vegyipari gépészek kézikönyve, Műszaki Kiadó, Budapest, 1987.

Kovács Z. - Pató G.-né Szűcs B.: *Raktározás*; Nemzeti Szakképzési és Felnőttképzési Intézet, Budapest, 2007.

Kovács Z. - Pató G.-né Szűcs B.: *Szállítás, anyagmozgatás*; Nemzeti Szakképzési és Felnőttképzési Intézet, Budapest, 2007.