



## COURSE DATASHEET

<b>Semester:</b>	2014/15/1
<b>Course:</b>	Material handling equipments and metal structures I.
<b>Code:</b>	VEMKGEB243B
<b>Responsible department:</b>	Institute of Mechanical Engineering
<b>Department code:</b>	MKGEI
<b>Responsible instructor:</b>	dr. Imre Timár

---

### Course objectives:

Transfer of knowledge in the field of materials treatment, handling, feeding, storing, logistics, system-technical approach.

### Course content:

Material transport, materials handling. Themes, terms. Overview, groups, technological connections. Characteristics of material to be transported. Basic machine elements used in materials handling equipments (ropes, chains, bellts, drums, breaks etc.) Elevating machine. Structural elements, establishments. Transporting machines. Continuous transport machines. Up-to-date transport chains. (Euro)pallets. Trucks. Air-flow material transport. Hydraulic transport. Dosage, feeding. Stores, storage. Silos, bunkers. Materials handling and process-control. Logistics.

### Requirements, evaluation and grading:

2 test papers and 3 homework-studies

### Required and recommended readings:

Tanszéki összeállított anyag ill. az abban felsorolt további szakirodalom. Cselényi J. – Illés B.: Anyagmozgatás és gépei, Miskolci Egyetem, Miskolc, 1996. Greschik Gy.: Anyagmozgató gépek, Tankönyvkiadó, Budapest, 1981. Prezenszki József: Logisztika I, és Logisztika II, BME Mérnöktovábbképző Intézet, 1995. dr. Felföldi L.: Szállítástechnika, Tankönyvkiadó, Budapest, 1971