UNIVERSITY OF PANNONIA

COURSE DATASHEET

Semester:	2014/15/1
Course:	Particle Technology - Process Engineering, Part II. (Basic machines)
Code:	VEMKGE5312R
Responsible department:	Institute of Mechanical Engineering
Department code:	MKGEI
Responsible instructor:	Dr. Sándor Verdes

Course objectives:

The topic is devided into 3 parts:
Process Engineering/Particle Technolgy, Part I.: Basics.
Process Engineering/Particle Technolgy, Part II.: Basic machines.
Process Engineering/Particle Technolgy, Part III.: Applications.
To make known machines and technologies used in different fields and where the common/joining topic is the particle.
The second part concerns the basic machines.

Course content:

Rough comminution.
Cruchers, size reduction machines.
Fine cruching.
Grinding.
Fine grinding, mills.
Ultrafine milling.
Other size reductionways.
Sieving.
Classification, classifiers.
Mixing, homogenisation.
Garnulation, briquetting.
Cyclons. Dust precipitation
Waste materials treatment.
Sprayers.
Others.

Requirements, evaluation and grading:

1 test paper and 1homework-study

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Required and recommended readings: