



COURSE DATASHEET

Semester:	2012/13/1
Course:	Particle Technology - Process Engineering, Part II. (Basic machines)
Code:	VEMKGE5312R
Responsible department:	Department of Mechanical Engineering
Department code:	MKGE
Responsible instructor:	Dr. Sándor Verdes

Course objectives:

The topic is divided into 3 parts:

Process Engineering/Particle Technology, Part I.: Basics.

Process Engineering/Particle Technology, Part II.: Basic machines.

Process Engineering/Particle Technology, 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.

Crushers, size reduction machines.

Fine crushing.

Grinding.

Fine grinding, mills.

Ultrafine milling.

Other size reduction ways.

Sieving.

Classification, classifiers.

Mixing, homogenisation.

Granulation, briquetting.

Cyclons. Dust precipitation

Waste materials treatment.

Sprayers.

Others.

Requirements, evaluation and grading:

1 test paper and 1 homework-study



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Required and recommended readings: