



COURSE DATASHEET

Semester:	2012/13/1
Course:	Ceramic technology
Code:	VEMKSI5312T
Responsible department:	Institute of Materials Engineering
Department code:	MKSI
Responsible instructor:	dr. Tamás Korim

Course objectives:

Teaching ceramic materials, its technology, characteristic features and applications fields of products made.

Course content:

The history of ceramics. Classification of ceramic materials; Raw materials for ceramics, considerations of their selection; Forming methods of ceramics (slip casting, throwing, jiggering, plastical pressing, turning, semi-dry pressing); Drying and firing: structural changes and product properties; Structural changes and product properties under the firing of ceramics; Driers and kilns: consideration of their selection; Ceramic glazes and colours, decoration techniques; "Classic" products of ceramic industry (brick, roofing tiles, stove tiles, majolica, faience, china); physical and chemical properties;

Requirements, evaluation and grading:

Attendance of lectures

Required and recommended readings:

Somodi, Pálffy, Kámory: Finomkerámiaipari technológia Kakasi, Somodi: Durvakerámiaipari technológia Singer: Keramik 1-2 Klingsberg: Physics and Chemistry of Ceramics Kinsery, Bollen, Uhlmann: Introduction to Ceramics