



## SUBJECT DATASHEET

<b>Semester:</b>	2010/11/1
<b>Subject:</b>	Ceramic technology
<b>Code:</b>	VEMKSI5312T
<b>Responsible department:</b>	Institute of Materials Engineering
<b>Responsible department code:</b>	MKSI
<b>Responsible lecturer:</b>	dr. Tamás Korim

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### Educational objectives:

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

### Detailed content of the subject:

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:

Attendance of lectures

### Required and suggested references:

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