



## COURSE DATASHEET

<b>Semester:</b>	2014/15/1
<b>Course:</b>	Ceramic technology
<b>Code:</b>	VEMKSI5312T
<b>Responsible department:</b>	Institute of Materials Engineering
<b>Department code:</b>	MKSI
<b>Responsible instructor:</b>	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