

COURSE TITLE:

## ENVIRONMENTAL MATERIALS

COURSE DESCRIPTION:

Information content: soils as complex multiphase systems, soil minerals; rocks, soils and their interaction with industrial processes; solids of the built environment and their transformations (building materials, paints, asbestos, etc.); slag, fly ashes and solid waste materials of fossil fuel plants; industrial byproducts (galvanic sludge, red sludge)

Competences acquired: basic overview about solids in the natural and manmade environment, their general chemical and phase composition, the possible risk related to them / their applicability to environment remediation.

LITERATURE:

Papp, G., Weiszburg, T.G. (ser. ed. 2000): EMU Notes in Mineralogy, Vol. 2: D.J. Vaughan, R.A. Wogelius (ed.): Environmental Mineralogy. Eötvös Univ. Press, Budapest, pp. 1–434.

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