Title of the course: **Earth sciences knowledge**	***NEPTUN-code:*** RKXFT1ABNE	***Weekly teaching hours:*** *l+cw+lb* 2+0+2	***Credit*****:** 4 ***Exam type****:* tm
Course leader: Krisztina Demény Dr.	***Position:*** senior lecturer	***Required preliminary knowledge:*** -	

Curriculum:

The geological history of the Earth. The internal structure of the Earth (the crust, the mantle, the core). Volcanism (type of volcanoes, volcanoes and plate boundaries) and plate tectonics. Rocks (igneous, sedimentary and metamorphic) and minerals classification systems. Major types of landforms (plains, mountains, cratons). Exogenous processes and main landform methods (the work of rivers, the formation of shores and coastlines, glacial processes, the work of wind). Main features of surface waters (rivers and lakes) and waters below the surface (groundwater, confined water, crack water). Karst processes (karst forms on or below the surface). Main soil types in the world (definition, functions, and major soil formations).

Professional competencies:

Knowledge of general and specific mathematical, natural and social scientific principles, rules, relations, and procedures as required to pursue activities in the special field of environment protection

Comprehensive knowledge of the basic features and interrelations of environmental elements and systems, as well as of the environmentally harmful substances affecting them.

Able to perform basic tests of the quantity and quality characteristics of environmental elements and systems by state-of-the-art measuring instruments; to draw up and implement measurement plans; and to evaluate data.

Open to professional cooperation with specialists related to their profession but involved in other areas.

Literature:

1. William M. Marsh, Martin M. Kaufman: Physical geography, Cambridge University Press, 2013.

2. PPT files on the homepage of Moodle learning system

Comment: