

Title (Mechanika gruntów i fundamentowanie)	Code 1010101131010120032
Field Civil Engineering First-cycle Studies	Year / Semester 2 / 3
Specialty -	Course core
Hours Lectures: 1 Classes: - Laboratory: 2 Projects / seminars: -	Number of credits 3
	Language polish

Lecturer:

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Status of the course in the study program:

Soil mechanics and foundation engineering (I)

Assumptions and objectives of the course:

On purpose the object is the introduction of students with methods of the diagnostics geotechnical conditions (ground-water) in the builder's basis, states of tensions and carrying capacities in the builder's basis, pressures of grounds on resisting walls, the influence of the frost on grounds in the builder's basis, expansive occurrences and the formation skills of the usage them in effect.

Contents of the course (course description):

Soil properties. Theoretical basics of soil mechanics. Soil as a 3-phase system. Constitutive models of soils. Flow of ground water. Stresses in soil mass. Bearing capacity and deformation of soil masses. Earth pressure. Expansive soils and frost heave.

Introductory courses and the required pre-knowledge:

mathematics, physics, chemistry

Courses form and teaching methods:

Traditional lectures with transparencies, laboratory exercises with multimedia presentations

Form and terms of complete the course - requirements and assessment methods:

The written colloquium. Every student receives 5 questions embracing the at random all realized programme of the object. The results the colloquium:

-5 correct answers - the mark 5, 0

-4 correct answers - the mark 4, 0

-3 correct answers - the mark 3, 0

The foreseen time-limit the colloquium: 14-th week of the semester.

Basic Bibliography:

Additional Bibliography:

