Level: Undergraduate Vocational Studies in Optometry

Course title: Optical and optometric instruments

Status: obligatory

ECTS: 5

Requirements: Geometrical optics, Optical materials and lenses

Learning objectives

Obtaining knowledge about construction of the instruments, work with the instruments used in optometry.

Learning outcomes

Abilities:

- General: use of technical documentation; analysis and comparison of different technical solutions; registration and analysis of the measured results.
- Specific: getting informed about the existing optometric instruments, possibilities and aims of their use; understanding the basics of optometric instrumentation; development of deductive methods concerning the instruments used before and new ones; ability to use the instrument for the aim to apply them in refractive inspection; use of binocular microscope slit lamp.

Syllabus

Theoretical instruction

Retiscopes. Ophthalmoscopes. Lighting methods. Tonometers. Visual field testing. Perimeters. Visual screens. Focometers. Refractometers. Slit lamps. Keratometers. Adaptometers.

Practical instruction

Practical work with instruments considered in theory.

Weekly teaching load				Other:-
Lectures: 3	Exercises: 0	Other forms of teaching: Practice 3	Student research:-	