**Název programu**: Biophysical Chemistry

**Forma**: prezenční (en)

**Název**: Preparation and study of vesicular complexes with polymers

**Školitel**: doc. Ing. Filip Mravec, Ph.D.

**Anotace**: This work is focused on the preparation and study of vesicular systems that, by their structure, surface charge and other properties, will be suitable for interaction with charged or uncharged polymers and together will form a water-soluble biocompatible complex that will be stable under physiological conditions. The study envisages the use of stationary, time-resolved and microscopic fluorescence techniques together with other available techniques such as dynamic light scattering, atomic force microscopy, chromatographic methods, etc. As part of the study, in-depth knowledge of fluorescence techniques and procedures for the preparation of colloidal complexes will be acquired.