

**Annotation of Doctoral Thesis Topics for Degree Programme: Material Sciences and Engineering, course in „Biomaterials and Biocomposites“ for the Academic Year 2019/2020**

**Topic:** Biomaterials on the Basis of Polysaccharides

**Supervisor:** doc. Ing. Marián Lehocký, Ph.D.

**Consultant:** –

**E-mail:** lehocky@post.cz

**Annotation:**

The aim of the disertational work is to study the behaviour of selected polysaccharides (hyaluronic acid, chitosan, fucoidan and others) in different conditions. There will be studied immobilization of these polysaccharides on selected substrated. The final samples will be subjected to analysis of interaction with cell systems.

**Requirements:**

Knowledge of general and macromolecular chemistry and physics at the university level. Good knowledge of the English language or a potential to the improvement. Basic manual and laboratory work skills. Ability to work independently.