Annex 1
Approved by VU Pro-Rector for Research order No. D–191 on the 26th of March 2020

LIST OF DISSERTATIONS TOPICS FOR DOCTORAL STUDIES COURSES IN 2020

NATURAL SCIENCES

Scientific area	Topics of doctoral dissertations	Supervisors
CHEMISTRY – N 003	1. *Synthesis and characterization new multiferroic materials*	Dr. Aleksej Žarkov
	2. *Synthesis of metal ion-substituted calcium phosphates by dissolution-precipitation method*	Dr. Aleksej Žarkov
	3. *Synthesis, characterization and application of metallic nanoparticles in biosensors design*	Prof. Almira Ramanavičienė
	4. *Synthesis and investigation of electrochromic polymers*	Prof. Arūnas Ramanavičius
	5. *Application of electrochemical microscopy*	Prof. Arūnas Ramanavičius
	6. *Modification and application of printed electrodes*	Prof. Henrikas Cesiulis
	7. *Synthesis, characterization of nanostructured carbon-based materials and their applications for development of energy storage systems*	Dr. Justina Gaidukevič
	8. *Graphene-based nanomaterials in biosensing systems*	Prof. Jurgis Barkauskas
	9. *Development and investigation of inorganic scintillating materials and composites*	Doc. Ramūnas Skaudžius
	10. *Development and investigation of complex transition metal oxides with perovskite-like structure having ferroic properties*	Doc. Ramūnas Skaudžius
	11. *Synthesis of selenonium based SAM analogues for nucleic acid tagging*	Prof. Viktoras Masevičius
	12. *Development of new bioactive heterocyclic compounds via use of functionalized alkynes*	Doc. Algirdas Brukštus
	13. *Microencapsulation of active compounds for self-healing coatings*	Doc. Tatjana Kochanė
	14. *Synthesis and study of modified polyesters for regenerative medicine*	Prof. Saulutė Budrienė

	15. *Synthesis and study of glycopolymers*	Prof. Ričardas Makuška
	16. *Synthesis and characterization of mixed metal ferrites and their nanostructures*	Dr. Živilė Stankevičiūtė