

LIST OF DISSERTATIONS TOPICS FOR DOCTORAL STUDIES COURSES IN 2021**NATURAL SCIENCES**

Scientific area	Topics of doctoral dissertations	Supervisors
INFORMATICS – N 009	1. <i>Computational modelling of physical, chemical, biological and social systems</i>	Prof. Romas Baronas Prof. Saulius Gražulis Prof. Pranas Katauskis Prof. Tadas Meškauskas Prof. Darius Plikynas
	2. <i>Big data mining</i>	Doc. Igoris Belovas Dr. Jolita Bernatavičienė Prof. Audronė Jakaitienė Dr. Virginijus Marcinkevičius Dr. Viktor Medvedev Prof. Olegas Vasilecas Prof. Julius Žilinskas
	3. <i>Visualization of multidimensional data</i>	Dr. Jolita Bernatavičienė Prof. Gintautas Dzemyda Prof. Olga Kurasova
	4. <i>Optimization algorithms and operations research</i>	Doc. Igoris Belovas Doc. Algirdas Lančinskas Prof. Remigijus Paulavičius Prof. Julius Žilinskas
	5. <i>Artificial intelligence and machine learning</i>	Doc. Igoris Belovas Dr. Jolita Bernatavičienė Prof. Gintautas Dzemyda Doc. Gražina Korvel Prof. Olga Kurasova Dr. Virginijus Marcinkevičius Dr. Viktor Medvedev Prof. Darius Plikynas

		Prof. Aistis Raudys Doc. Gintautas Tamulevičius Doc. Povilas Treigys
	6. <i>Computational complexity: the lower bounds problem</i>	Prof. Stasys Jukna
	7. <i>Artificial neural networks, deep learning</i>	Dr. Jolita Bernatavičienė Prof. Gintautas Dzemyda Prof. Olga Kurasova Dr. Virginijus Marcinkevičius Dr. Viktor Medvedev Doc. Gintautas Tamulevičius Doc. Povilas Treigys
	8. <i>Information systems and decision making</i>	Prof. Saulius Gudas
	9. <i>Signal modelling and natural language processing methods</i>	Dr. Jolita Bernatavičienė Doc. Gražina Korvel Dr. Virginijus Marcinkevičius Doc. Gintautas Tamulevičius Doc. Povilas Treigys