The Competition for the Best Dissertation Defended in 2021-2022

Economics, Finance and Management

- Agnieszka Jania
- Agnieszka Put
- Anlan Wang
- Dagmara Wójcik
- Jakub Stefek
- Katarzyna Turoń
- Krzysztof Podgórski
- Malgorzata Krzciuk
- Marie Ligocká
- Radka Kubalová
- Wojciech Kamiński

Raw materials, Energy and the Environment

- Damian Kurzydym
- Jakub Bodys
- Lukasz Pieszczek
- Michał Stebel
- Radek Papesch

Health and Applications in Healthcare

- Anna Woźniak
- Marta Sobkowiak
- Michal Labuda
- Przemysław Kurtyka
- Wioletta Swieboda

Information Technology and Electrical Engineering

- Danuta Descour
- Dawid Szarański
- Mariia Rizun
- Michal Halaška
- Peter Kasák
- Piotr Ciepliński
- Róberta Vršková
- Věroslav Holuša
- Vojtěch Molek

Competitive Engineering and Materials Research

- Aleksandra Lont
- Aleksandra Nyga
- Denisa Medvecká
- Ivan Antoniuk
- Karolina Kowalczyk
- Stefan Grushko
- Weronika Smok

Final results

Best 5 dissertations defended in 2021-2022

Category 1: Economics, Finance and Management

1st	Anlan Wang
2nd	Krzysztof Podgórski
3rd	Radka Kubalová

Category 2: Raw materials, Energy and the Environment

1st	Damian Kurzydym
2nd	Jakub Bodys
3rd	Michał Stebel & Radek Papesch

Category 3: Health and Applications in Healthcare

1st	Michal Labuda
2nd	Przemysław Kurtyka
3rd	Marta Sobkowiak

Category 4: Information Technology and Electrical Engineering

1st	Vojtěch Molek
2nd	Věroslav Holuša
3rd	Róberta Vršková

Category 5: Competitive Engineering and Materials Research

1st	Weronika Smok
2nd	Denisa Medvecká
3rd	Ivan Antoniuk

Final results

- ## Category: Economics, Finance and Management

1st - Anlan Wang - Verification on the Performance of Classical and Modern Portfolio Optimization Models
2nd - Krzysztof Podgórski - Neural networks and the accuracy of forecasting exchange rates on the currency market
3rd - Radka Kubalová - Application of behavioral economics in marketing

- ## Category: Raw Materials, Energy and the Environment

1st - Damian Kurzydym - Experimental and numerical research of the selective catalytic reduction system for diesel engine cars
2nd - Jakub Bodys - Non-equilibrium two-phase model of transcritical CO_2 flow for ejector design in state-of-the-art refrigeration systems
3rd - Michał Stebel - Numerical analysis of conjugate heat and mass transfer phenomena in food freezing using hydrofluidisation impingement method
  Radek Papesch - Treatment and use of artificial aggregates in the production of concrete composites

- ## Category: Health and Applications in Healthcare

1st - Michal Labuda - Fusion of multichannel electromyography and photoplethysmography imaging to analyze the electrical activity of muscles and the perfusion of subcutaneous tissue
2nd - Przemysław Kurtyka - Effect of surface modification of the Ti6Al7Nb alloy implant on the adhesion and growth of myocardial cells
3rd - Marta Sobkowiak - Modeling and simulation of blood flow in the middle cerebral artery

- ## Category: Information Technology and Electrical Engineering

1st - Vojtěch Molek - Fusion of Methodologies: F-transform with CNN
2nd - Věroslav Holuša - Virtual reality applications in enterprise security resource industries
3rd - Róberta Vršková - Research on methods of behavioural classification of human behaviour

- ## Category: Competitive Engineering and Materials Research

1st - Weronika Smok - Analysis of the structure and optical properties of one-dimensional SnO_2 and In_2O_3 ceramic nanomaterials produced by the hybrid sol-gel technique and solution electrospinning
2nd - Denisa Medvecká - The study of microstructural changes in the heat-affected zone of welded joints of advanced high-strength steel S960MC
3rd - Ivan Antoniuk - Short-term planning of intelligent manufacturing systems with the support of computer simulation