

Faculty of Mechanical Engineering TUL – Student Grant Competition – 2024

5011	Research on aging and biodegradation of PLA and PHBV composites with natural fillers	Ing. Jan Novák	2022–2024	241 251
5046	Process research on textile and single-purpose machines III	Ing. Jiří Komárek, Ph.D.	2022–2024	244 394
5072	Advanced materials research and machine learning applications in control and modelling of mechanical systems	Ing. Martin Herrmann <i>změna řešitele</i>	2022–2024	366 942
5321	Research into Directed Energy Deposition additive technology for obtaining optical sensor components from glass	Ing. Mohamed Fawzy Abdelkader	2023–2025	249 267
5323	Optimizing and improving the efficiency of heat transfer applications using computational fluid dynamics modelling	Anas F A Elbarghthi, Ph.D.	2023–2025	208 348
5329	Research on kinetics of diffusion processes and optimization of heterogeneous diffusion junction formation	Ing. Šárka Bukovská	2023–2025	283 936
5387	Research in the field of micromachining – micro milling	Ing. Artur Knap	2023–2024	215 751
5393	Investigation of rheological properties of silicate materials for robotic 3D printing	Ing. Ondřej Matúšek, Ph.D.	2023–2025	237 467
5432	Formation of antifouling surfaces with antibacterial activity using magnetron sputtering technology	Ing. Lucie Svobodová, Ph.D.	2024–2025	277 640
5435	Assessment of the effect of welding on grain growth kinetics and fatigue life of fine grain steel joints	Ing. Daniel Klápště	2024–2026	274 284
5443	Research and development of technology and equipment for the production of nanofibrous structures	Ing. Ondřej Friedrich	2024–2026	342 934
5455	Numerical and experimental research of vehicles and their parts	Ing. Josef Břoušek, Ph.D.	2024–2026	453 708
5456	Effect of process parameters on the machining quality of biocomposite systems	Ing. Martin Váňa	2024–2026	344 213
5500	SGC Organization – FME TUL	DFS	2024–2025	44 683
Total FME TUL			2024	3 784 818