

Topics for diploma thesis for academic year 2019-2020

for study programme: Automotive Production

<i>Topic</i>	<i>Student</i>	<i>Tutor</i>
1. Analysis of the current state of automotive industry in EU and worldwide		Ing. Branislav Konečný. PhD./ KAV
2. Use of parametric 3D modelling - tying parameter values to spreadsheets at designing molds for plastic injection		Doc. Michal Fabian,PhD
3. Design and creating CAD model of assembly fixture		Ing. Albert Mareš,PhD.
4. Video analysis of assembly process		Ing. Albert Mareš,PhD.
5. Design of stability device for tipper semi-trailer		Doc.Ing. Robert Grega,PhD.
6. Application of CAD methods in the design of gearboxes installed in passenger cars		Doc. Ing. Silvia Maláková, PhD.
7. Design of multi-purpose truck		doc. Ing. Kaššay,PhD
8. Analysis of the state and support of electromobility in Asian countries		Ing. Dušan Sabadka,PhD.
9. Innovative technologies for production of automotive parts of composites, metal sheets and plastic		Ing. Dušan Sabadka,PhD.
10. Formability evaluation of steels used for production body-in-white safety components -		Doc. Ing. Miroslav Tomáš,PhD.
11. Biomechanical limits for vehicle drivers at frontal impact into riding barrier or Design of a model for optimizing the formability of steel sheets intended for body components		Prof.Ing. Emil Evin,CSc./RNDR Jozef Kmec,PhD.