

## SELF-EVALUATION REPORT MODULE 3

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**EVALUATED UNIT: Faculty of Technology**

**Appendix C. Student involvement in collaboration with commercial sectors**

Academic year	Number of business topics
2015/2016	18
2016/2017	31
2017/2018	24
2018/2019	27

Academic year 2015–2016 (11 bachelor's theses, 7 master's theses)		
Thesis type	Thesis title	Company
Bachelor's	Design of a functional solution for a rear-view mirror for sports cars	CERS PERFORMANCE s.r.o.
Bachelor's	Design for a GPS material	Rallye Zlín spol. s r.o.
Bachelor's	Design for a non-heated pressure vessel	Rudolf Jurajda – ROLF
Bachelor's	Assessment of refined drawn steel characteristics	Třinecké železárny, a.s.
Bachelor's	Preparation of a technological procedure for manufacturing a roll bender	Bří Švarcové, s.r.o.
Bachelor's	Implementing a PIS at the FP-Steel Drawing operation	Třinecké železárny
Bachelor's	Implementing a shipping system and modifying the information system	Pilana Knives s.r.o.
Bachelor's	Design of a placing manipulator for a production line	TNS SERVIS s.r.o.
Bachelor's	Manufacture of tyre mould components	Gottschol Acuilux CZ
Bachelor's	Optimising a technological process of manufacturing a controller air distributor unit	Continental Automotive Czech Republic
Bachelor's	Planet gear	Fatra, Napajedla
Master's	Design and manufacture of an extruder machine	Fatra, Napajedla
Master's	Slag removal from a combustion furnace	Deza, Val. Meziříčí
Master's	Ink cartridge filling device	Artech Moravia spol. s r.o.
Master's	Introducing mould into production	Kasko spol. s r.o.
Master's	Improving a plating process	IRISA – výr.družstvo, Vsetín
Master's	Designing a component lubrication machine	WOCO STV s.r.o.
Master's	Analysis of the production process using lean manufacturing methods, particularly optimization of production modification using the SMED method	Huhtamaki Česká republika, a. s.

Academic year 2016–2017 (16 bachelor's theses, 15 master's theses)		
Thesis type	Thesis title	Company
Bachelor's	Design of a robotic workplace in automotive industry	Solvotech Engineering & Development
Bachelor's	Innovation in the development methods of robotised lines in the automotive industry	Solvotech Engineering & Development
Bachelor's	New trends in electro-erosive machining	Mesit foundry, a.s.
Bachelor's	The effect of filling polymers on the properties of solid	Greiner Packaging s.r.o.

	packaging	
Bachelor's	Design of a production shop with a focus on engineering production	FOUNDRY & MACHINING, s.r.o.
Bachelor's	Design of a new way to check the setting of a piece of blasting equipment	Mubea Stabilizer Bar Systemes s.r.o.
Bachelor's	Use of transport equipment and machinery at a CVT finishing shop	Continental Barum s.r.o.
Bachelor's	Oil cooler	Bionic E&M spol. s r.o.
Bachelor's	Inspection and production of stainless steel elbows	Inoxtec s.r.o.
Bachelor's	Use of CAM in manufacturing a component	C.S.O. Staré Město
Bachelor's	Manufacture of semi-finished sidewalls and beads for segmented moulds	Continental Barum s.r.o.
Bachelor's	Planar grinding of thin components for knitting machines	Groz-Beckert Czech s.r.o.
Bachelor's	Structural analysis of a frame of a site container	Premier Containers s.r.o.
Bachelor's	Sound-proofing and lighting characteristics of window and door fillings	Fest Mont s.r.o.
Bachelor's	The matters of operating and programming a horizontal CNC machine	MCR Hošťálková
Bachelor's	Optimization of a production process of installing an extraction unit within a blown film extrusion line	Windmöller & Hölscher Prostějov, k.s.
Master's	Detecting hidden material defects using NDT methods	Bilfinger Babcock CZ
Master's	Draft design of a structure of a welding head for micro-welding with floating parallel electrodes	Valmatic
Master's	Design of pressing equipment for drop forging operations	Šmeral Brno, a.s.
Master's	Structural design of a welded stand	Šmeral Brno, a.s.
Master's	Innovation of a procedure to measure parts in automotive	Metaldyne s.r.o.
Master's	Programming and production using sliding head CNC machines and automatic machines	Zálesí Luhačovice a.s.
Master's	Vibratory stock bin for dispensing delay rollers	Austin Detonator Vsetín
Master's	Design of a feeding boat for recreational fishing	Evektor, spol. s r.o.
Master's	Modern methods of checking measurements in injection mould production	Mesit foundry, a.s.
Master's	Simulation and verification of the component injection process according to the tool design	Mesit foundry, a.s.
Master's	Upgrading a HV distribution unit	ABB s.r.o.
Master's	Use of advanced polymeric materials for 3D printing in workshops in the field	Parzlich s.r.o.
Master's	Measurement and modelling of viscoelastic behaviour of plastics	Smartplast s.r.o.
Master's	Influence of fibre orientation on the mechanical behaviour of plastics	Smartplast s.r.o.
Master's	The effect of cold bonding on the mechanical behaviour of plastics	Smartplast s.r.o.

<b>Academic year 2017–2018 (11 bachelor's theses, 13 master's theses)</b>		
<b>Thesis type</b>	<b>Thesis title</b>	<b>Company</b>
Bachelor's	Optimization of laser manufacturing process and of a warehouse	STORM-Tech

Bachelor's	Measurement of strength of riveted joints for LED module coolers	Hella Autotechnik
Bachelor's	Effect of the bead filler hardness on the performance of ICT tyres	Mitas
Bachelor's	Design of theoretical calculation of a clamping axial force for profile clips	NORMA Czech, s.r.o.
Bachelor's	Automatically sliding roof of a machining centre	Trimill, a.s.
Bachelor's	Part production by drop forging	Kovárna Inpo s.r.o.
Bachelor's	Assembly line frame design	Hirschmann Automotive
Bachelor's	Air spring reconstruction	Rubena Náchod
Bachelor's	Injection mould design	SKD Bojkovice
Bachelor's	Design and manufacture of a rolling shear tool	MAVA-lisovna s.r.o.
Bachelor's	Groove milling in small parts	Groz-Beckert Czech s.r.o.
Master's	Design concept optimization for a non-heating steel vessel loaded with external overpressure	Rudolf Jurajda – ROLF
Master's	Six-wire automatic machine drive design concept	Tajmac-ZPS, a.s. Zlín
Master's	Determination of the methodology for monitoring the capability and stability of the production process and its regulation for Hc/Fc lens using the MTF parameter	Meopta optika s.r.o.
Master's	Carousel laser welding line design	TEAZ s.r.o.
Master's	Influence of coil temperature in overmoulding on injection moulding process	Woco STV, s.r.o.
Master's	Design of a tool for manufacturing a part for a car steering column module	Kostal CR, spol. s r.o.
Master's	Optimization and statistical regulation of miniature parts	Precizní Technika s.r.o.
Master's	Optimization of materials for the production of flexibels	Continental Barum
Master's	Injection mould design	Staform, s.r.o.
Master's	Production and optimisation of production of circular plastic tanks using coiling extrusion	ZOMApplast, s.r.o.
Master's	Implementing a SPC method to assembly of sets	FREMACH Morava
Master's	Automatization of flow charts for XL presses – design	Aufeer Design, s.r.o.
Master's	Replacement of the standard cartridge and bullet material with plastics	Zbrojovka Uh. Brod

<b>Academic year 2018–2019 (15 bachelor's theses, 12 master's theses)</b>		
<b>Thesis type</b>	<b>Thesis title</b>	<b>Company</b>
Bachelor's	Flap gate design	Kredit, Slavkov, UH
Bachelor's	Application of the SMED method to selected equipment	TES Vsetín
Bachelor's	CNC machine programming using CAM	MCR Hošťálková
Bachelor's	Press mould design and manufacture	Husqvarna Manufacturing CZ s.r.o.
Bachelor's	Preparing plates for 3D SLM	Barum Continental – VFC
Bachelor's	Programming production of the mould section of an injection mould	SKD Bojkovice
Bachelor's	Maintenance and repair of injection moulds for elastomers	Mubea Prostějov
Bachelor's	Design of a lifting crane traverse	TES Vsetín s.r.o.



Bachelor's	The effect of low temperatures on the strength of a supporting steel structure, weld and screw joints in freezing tunnels	Kostelecké uzeniny, a.s.
Bachelor's	Comparison of mechanical properties of alloys	PBS Velká Bíteš a.s.
Bachelor's	Applying a soldering agent to a B-joint of a pipe to improve the results of cooler's internal cleanliness	Hanon Systems Autopal, s.r.o.
Bachelor's	Proposal for a tool to form a thin, multi-layer film for battery cells (pouch battery)	Manz Slovakia s.r.o.
Bachelor's	Tedder	ZD MT
Bachelor's	Draft design of pneumatic transport of sand for the production of cores	Feramo metallum international s.r.o
Bachelor's	Design of a lifting crane traverse	TES Vsetín s.r.o.
Master's	Statistical comparison of measurement accuracy between Wenzel LH87 and ATOS using a form-complicated polymer part.	Plastika Kroměříž
Master's	Laser cutting of sheet metal	NERA Displays s.r.o.
Master's	Workplace expansion and innovation for automated CCTV control	Indet safety systems a.s.
Master's	Grinding inner sections of vacuum chambers	Štraichr Plzeň
Master's	Technological procedure for fitting the cover part of a pump	Gemax s.r.o.
Master's	The effect of mould temperature on the resulting properties of cooler chambers	Hanon Systems Autopal Services s.r.o.
Master's	Experimental study on the effect of cooling after the rubber damping element post-curing process on joint strength	Mubea Prostějov
Master's	Production of a complicated part of a mould using a 3-axis CNC machine	KOH-I-NOR FORMEX s.r.o.
Master's	Capacity of production volume and potential for any increase	Groz-Beckert Czech. s.r.o.
Master's	New trends in labelling segment mould sidewalls	Continental Barum s.r.o.
Master's	Optimization of a cell to produce massage units for cars	Continental Automotive Czech Republic
Master's	Improving the performance and quality of the production process	Windmüller and Höslcher Machinery