ACCREDITATION

The Faculty of Materials Science and Technology (MTF) is accredited as a **university type of institution.** Having undergone a complex accreditation process in 2009, the Faculty obtained the right to grant the academic titles of "Bachelor" (Bc.), "Engineer" (Ing., corresponding to Master's degree) and "Philosophiae Doctor" (Ph.D.). In 2012, the Faculty provided 9 Bachelor study programmes, 12 Master study programmes, and 9 Doctoral study programmes in both full-time and part-time study forms.

Accredited study programmes at the Faculty

Accredited study programmes – Bc.
Applied Informatics and Automation in Industry
Materials Engineering
Production Devices and Systems
Computer-Aided Production Technologies
Production Technologies
Industrial Management
Personnel Policy in Industrial Plant
Quality of Production
Occupational Health and Safety
Accredited study programs – Ing.
Applied Informatics and Automation in Industry
Materials Engineering
Processing and Application of Non-metals
Production Devices and Systems
Machining and Assembly
Computer-Aided Design and Production
Welding
Industrial and Art Foundry
Industrial Management
Integrated Safety
Teaching Specific Engineering Subjects
Engineering of Production Quality
Accredited study programmes – PhD.
Automation and ICT Implementation in Processes
Materials Engineering
Processing and Application of Non-metals
Production Devices and Systems
Industrial Management
Integrated Safety
Machining Technologies and Materials
Didactics of Technical Professional Subjects
Engineering of Production Quality

Study system and organisation

The credit system introduced at the Slovak University of Technology (STU) has been implemented in all three degrees of the university education at STU MTF, in compliance with the law and accreditation within the defined standard length of study for both full-time and part-time study forms.

Degree 1: Bachelor's study, accomplished by granting the academic title of "Bachelor" - Bc. Having successfully passed the State exam and gaining the academic title of "Bachelor" (Bc.), the graduates can either continue the study at degree 2 level, or leave the Faculty.

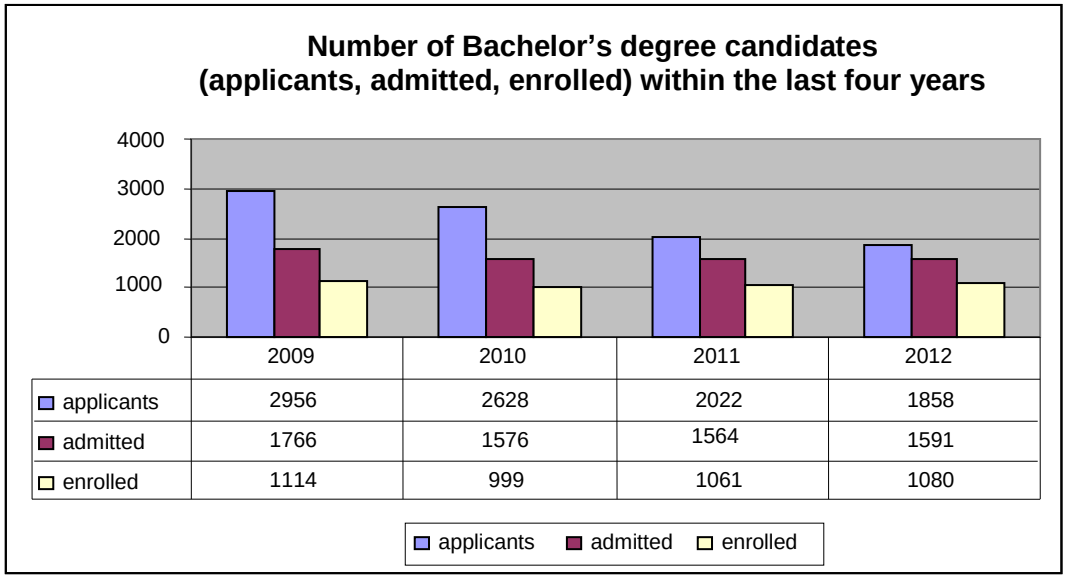
Degree 2: Master's study, accomplished by gaining the academic title of engineer – "Ing." (corresponding to MSc.)

Degree 3: Doctoral study in both full-time and part-time forms. The defined standard length of study in full-time form is 3 years, in part-time form 5 years. The study is accomplished by gaining the academic title of "Philosophiae Doctor "– PhD.

All of the above-mentioned programmes can be studied either full-time or part-time.

Interest in study

The interest in study at the Faculty within individual degrees is quite stable. A decrease in the number of the students admitted and enrolled was partially due to the changes introduced by the Ministry of Education of SR in financing universities, which consequently modified the policy of the Faculty management on the one hand, and also decreasing demographic curve and the increasing number of new universities and colleges in the Slovak Republic, on the other hand.

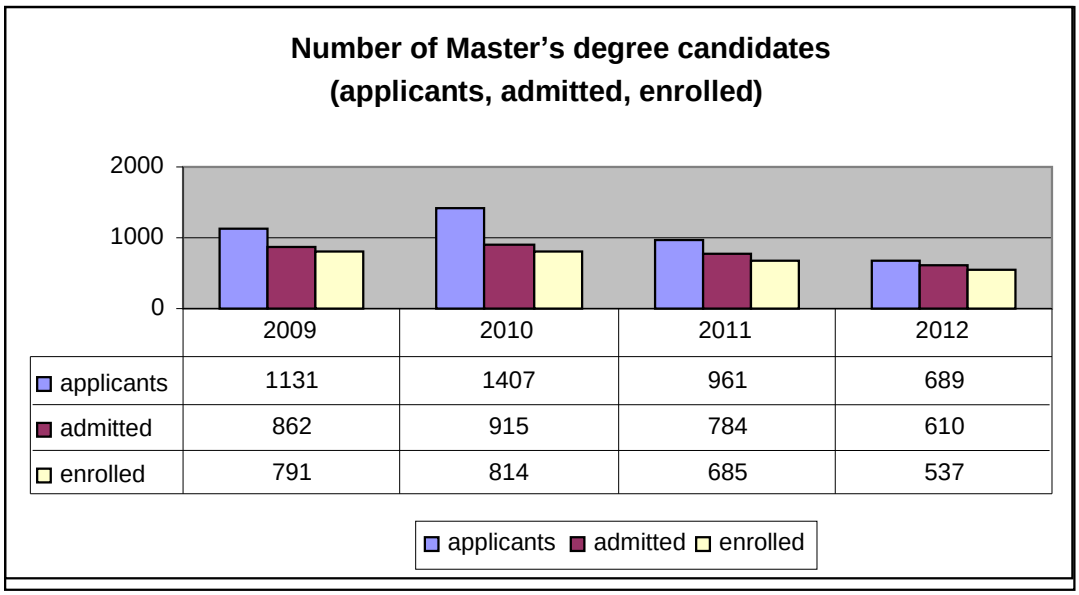


Graph No. 1 *Number of Bachelor's degree candidates (applicants, admitted, enrolled) within the last four years*

Admission procedure varies according to the degree

The admission procedure for the Bachelor's degree is based on applicants' secondary school results, i.e. there is no entrance examination. The interest in study certified by participation in specialised competitions is an advantage for the applicants.

The admission procedure for the Master's degree considers the results of the entrance examinations achieved in three profile subjects within the programme studied as well as overall study achievements of the Bachelor's graduate.



Graph No. 2 *Number of Master's degree candidates (applicants, admitted, enrolled) within the last four years*

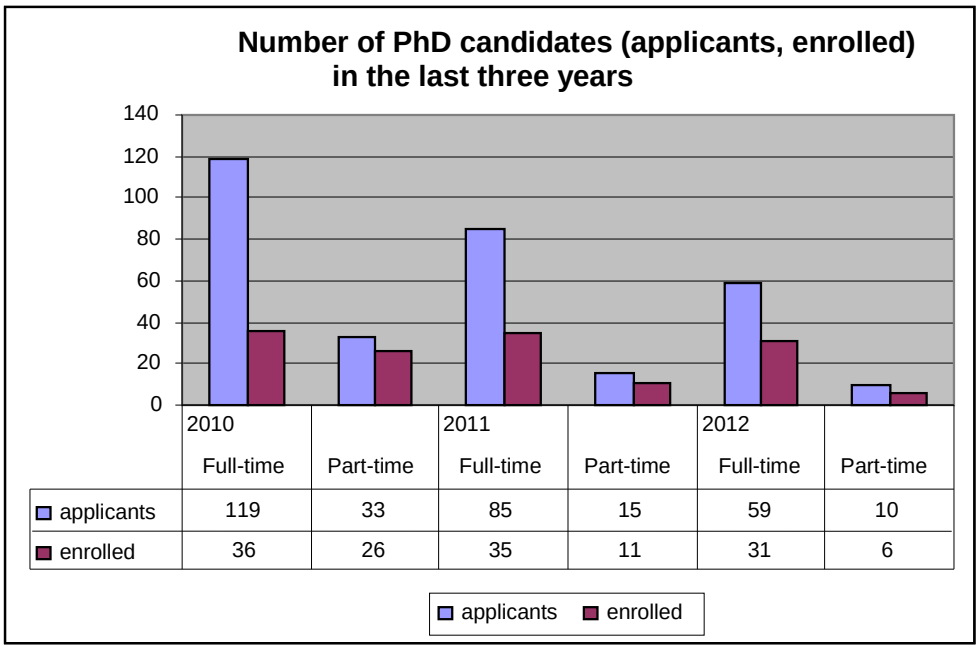
The Faculty management perceive with satisfaction that, besides the STU MTF Bc. graduates interested in Master's study, there is also a high number of candidates from other universities (Table.1), which is a proof of the high quality of the Faculty Master's study programmes.

Table. 1
Master's degree candidates: graduates of STU MTF and other universities in 2012

Applicants	MTF graduates	592
	From other universities	97
	Total	**689**
Enrolled	MTF graduates	476
	From other universities	61
	Total	**537**

The admission procedure for the doctoral degree comprises of the entrance examination consisting of an interview regarding the chosen topic of the doctoral thesis and English for Specific Purposes test. The Faculty tends to increase the number of internal PhD students.

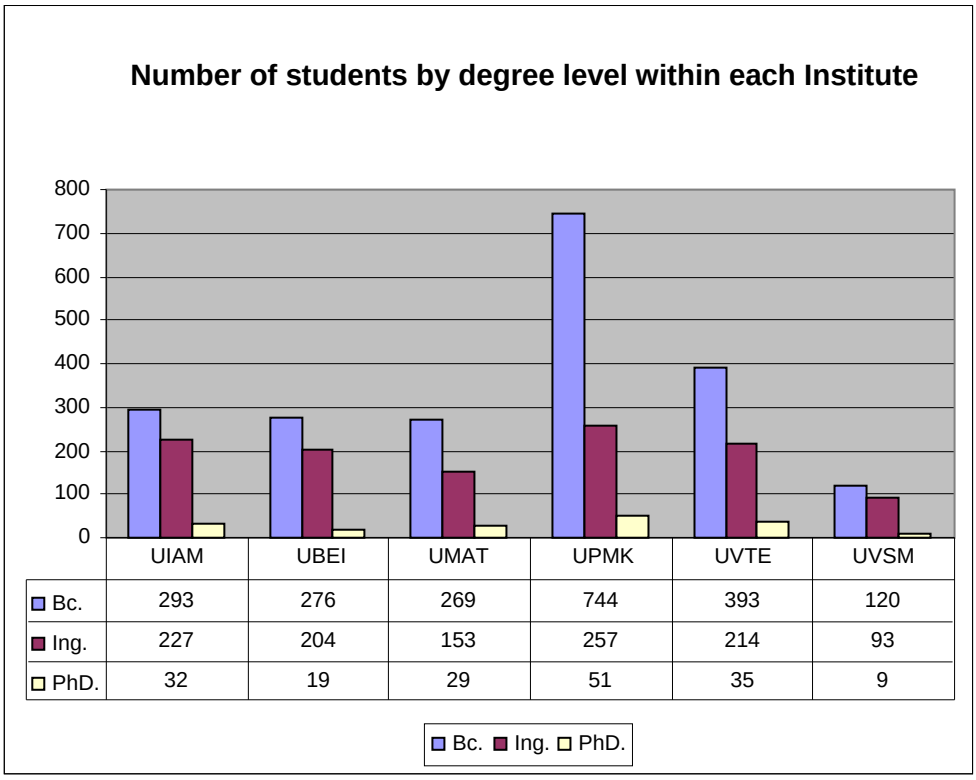
The number of full-time PhD students (***Graph No. 3***) depends on the financial policy of the Ministry of Education, Science, Research and Sport of the Slovak Republic; the number of scholarships allotted to a university is based upon the criterion of its achievements in the field of research (domestic grants, foreign grants, internal PhD candidates having passed the dissertation exam, number of PhD graduates and the amount and quality of publications).



Graph No. 3 *Number of PhD candidates (applicants, enrolled) in the last three years*

Study and teaching is guaranteed by the Faculty Institutes. Each Institute provides all three degrees of education.

The number of students at each Institute is illustrated in Graph 4.



Graph No.4 *Number of students by degree level within each Institute*

Abbreviations used:
UIAM- Institute of Applied Informatics, Automation and Mathematics
UBEI- Institute of Safety and Environmental Engineering
UMAT- Institute of Materials
UPMK- Institute of Industrial Engineering, Management and Quality
UVTE – Institute of Production Technologies
UVSM- Institute of Production Systems and Applied Mechanics

Study conditions

Regarding the premises and administration, the study conditions at the Faculty can be considered favourable.

Access to textbooks has been improved by implementing the model of electronic textbooks available to all the Faculty students free of charge. To meet the students' requirements, introduced were the Saturday office hours in the Registrar's Office and the Academic Library. As for social policy, significant is the study at the detached workplaces in Komárno and Dubnica nad Váhom (the first year of bachelor studies).

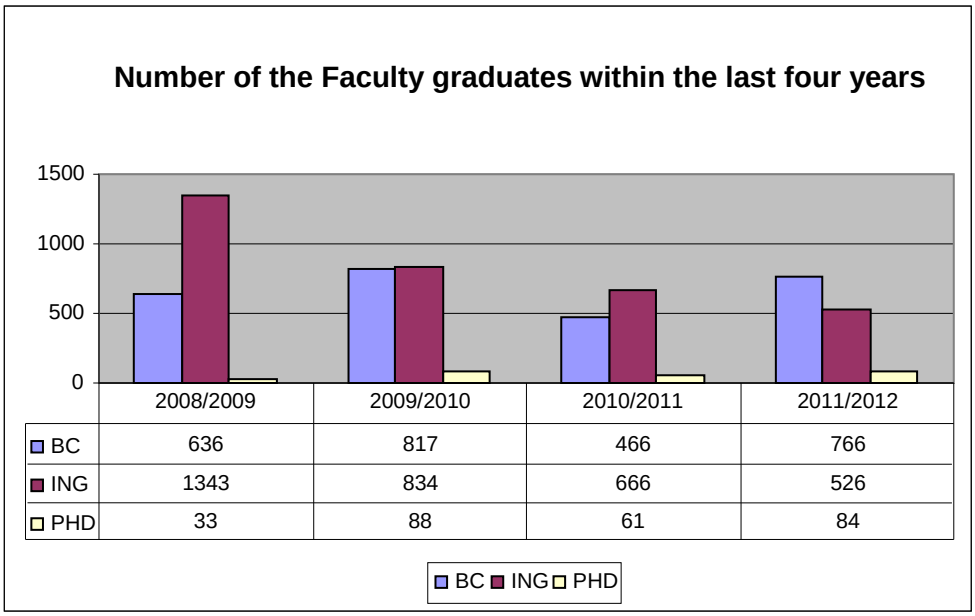
Besides study, the students can be involved in the institutional research activity either by participating in research projects and the Student Research Conference, or working as research student-helpers. The Student Research Conference provides the bachelor's and master's students with a chance to get acquainted with research methods, to analyse a research task and articulate the attained research results in both oral and written forms, and to defend their opinion in a professional forum. PhD students can present partial results of their research projects in the International Doctoral Seminar, an annual event organized by the Faculty and attended also by PhD students of foreign universities and research Institutes from home and abroad.

Besides the students of Slovak citizenship, there are also foreign students studying at STU MTF. Unfortunately, the Faculty is failing to attract a higher number of foreign students; their percentage is quite low so far.

QUALITY OF EDUCATION AND EMPLOYABILITY OF GRADUATES

Education efficiency and quality can be assessed by various criteria and parameters, such as placement rate of graduates and the unemployment rate regularly announced by the Ministry of Labour, Social Affairs and Family, SR. The fact that

STU ranks among the universities with the lowest unemployment rate is justified by the educational quality and interest in social practice of the Faculty graduates.



Graph No.5 *Number of the Faculty graduates within the last four years*

The aim of the educational process is to train graduates for their future profession. Its efficiency is measured by various methods, the most important of which is the method of feedback mapping the students' opinions regarding the study contents, activities of the educational process implementation, study environment and teaching strategies. Besides these tools of educational quality improvement, the Faculty carries out a survey regarding the students' satisfaction with the aim to identify weaknesses in the education process, teaching strategies, as well as administration and organisation.

In accordance with the law on Universities No. 131/2002 Coll., the STU MTF students have a chance to participate in a survey via a questionnaire available on the Faculty website. The questionnaire comprised the following areas: process and organisation of the study, quality and professional behaviour of teachers, quality of the teaching process, accommodation and others.

The electronic questionnaire evaluating the level of education from the perspective of students available for completion during September to December 2011 was responded to by approximately 300 students of all study degrees. The Faculty management seriously deals with the students suggestions from the questionnaire and informs the students and teachers on possible solutions or improvements.

SOCIAL MATTERS

Accommodation and board for students are provided in the Student Hostel of M. Uher and the adjacent cafeteria and snack bars. Students mainly appreciate the quite high standard of comfort including free internet connection, as well as availability of sports facilities such as fitness centre, gym, indoor swimming pool and tennis courts, directly on the campus.

Besides the above-mentioned facilities, students can take advantage of social scholarships and other bonuses such as the ones for study achievements and motivation, study loans and consultancy in the Career Centre. All of this is considered when designing time-tables, length of a training unit, arrangements of subjects, administration of the student agenda in AIS, PC connection, medical care and the possibility of arranging one's matters in the Registrar's and Academic Library on Saturdays. A psychologist was also employed to support spiritual and mental well-being of students by helping the students to handle critical situations and to adapt to the new academic environment.

As amended by law, the social system includes both enforceable and non-enforceable scholarships provided within the framework defined by the Act on Universities or the internal University and Faculty legislations.

Students awarded in 2012

07/2012 – Awards of STU MTF Dean

a) Dean's Award for outstanding achievements attained during the entire academic study – (Bc. study)
1. Rovný Oliver – weighted point average: 1.31
2. Šurinová Radka **-** weighted point average: 1.44

b) Dean's Honorable Mention for excellence in the Bachelor's thesis (Bc. study)
1. Blesáková Viera: Applying basic tools of quality management in selected companies (UPMK)
2. Drábik Marián: Proposal of measures for improving the motivation system of employees in PROTHERM PRODUCTION s.r.o., Skalica (UPMK)
3. Drhová Jana: Emergency planning in handling dangerous materials (UBEI)
4. Franík Jakub: Proposal and implementation of a railway transportation control model with a related program for Simatic S7-300 station (UIAM)
5. Holík Matej: Modification of the inspection system for saddle parts before expedition (UVSM)
6. Hrabala Martin: Program modules for combustion burners (UIAM)
7. Hrnčiříková Leona: Motivation stimuli of the EC-TECH a.s. employees (UPMK)
8. Kolarik Ivan: Safety requirements for using driven railway vehicles (UBEI)
9. Kollarovičová Andrea: Study into the structure of a bimetal CuSn6 cast alloy interface by electron microscopy and EDX microanalysis (UMAT)
10. Kozák Alojz: Improving the system of employee motivation in Continental Matador Rubber, s.r.o. (UPMK)
11. Krajčo Vladimír: Proposal of measures for developing middle managerial roles in ENVIRAL, a.s. (UPMK)
12. Kružliaková Viera: Proposal of measures for improving the system of employee evaluation in a selected company (UPMK)
13. Lobodáš Miroslav: Laser beam welding through the use of a robotic beam and by using a robot (UVTE)
14. Marcinek Ján: System of receivables management in an industrial company (UPMK)
15. Mikulášek Marek: Compression of graphic formats of photographs (UIAM)
16. Mikulčík Roman: Work safety of the maintenance and repair activities within the job of a management and control system mechanic (UBEI)
17. Stano Tomáš: Proposal for construction documentation of plastic pressing (UVTE)
18. Straka Marek: Proposal of measures for the improvement of material flow in ZF Sachs Slovakia, a. s., Trnava (UPMK)
19. Vičík Vladimír: Practical issues of data collecting in 3D digitalisation (UVTE)
20. Vydra Pavol: Computer options for designing a technological procedure of bending (UVTE)
21. Vyskoč Maroš: Utilising the Internet in schools (KIP)

06/2012 – STU MTF Dean's Awards

a) Dean's Award for outstanding achievements attained during the entire academic study – (Master study)

1. Baumgartner Matej, Bc. – weighted point average: 1.15
2. Brathová Adriana, Bc. – weighted point average: 1.13
3. Lábsky Adam, Bc. – weighted point average: 1.12
4. Sroka Michal, Bc. – weighted point average: 1.05
5. Trávničková Eva, Bc. – weighted point average: 1.10
6. Zelenáková Monika, Bc. – weighted point average: 1.09

b) Dean's Honorable Mention for excellence in the Master thesis (Master study)

1. Baťková Marianna, Bc.: Proposal for improving the production and storage system in Hammerbacher SK, a. s. (UPMK)
2. Belko Peter, Bc.: Information and communication technologies and the use of MultiPoint Server 2011 in education (KIP)
3. Bittnerová Monika, Bc.: Proposal for improving the product changes process introduced during the manufacturing process of Foxconn Slovakia, spol. s r. o., Nitra (UPMK)
4. Čagánek Filip, Bc.: Proposal for optimising the assembling processes and ergonomy in the assembly workplace of ZF Boge Elastmetall Slovakia a. s. (UPMK)
5. Ďurica Adam, Bc.: Study into the conditions of electrolytic hydrogen production and its utilisation in fuel cells (UBEI)
6. Dvorská Monika, Bc.: Proposal for utilising the tools of marketing communication in the development of a positive image of ORGECO spol. s r.o. and its products (UPMK)
7. Gašpar Gabriel, Bc.: Distributed system of temperature data collection (UIAM)
8. Gerek Radovan, Bc.: Increasing the effectiveness of vehicle control on a verification module of a car body (UPMK)
9. Hlavatá Monika, Bc.: Proposal for improving IMS EMS system by using a process approach in the context of SCR in TSS GRADE, a.s. (UPMK)
10. Jáňa Miroslav, Bc.: Effect of atmosphere and vacuum on the character of weld joints prepared by explosion (UVTE)
11. Jančarek Dušan, Bc.: Virtual model of a pipe exchanger (UIAM)
12. Jurík Juraj, Bc.: Proposal for rationalising the system of maintenance and repairs (UPMK)
13. Kaprinay Andrej, Bc.: Information systems for the print and on-line media (UIAM)
14. Kovařík Vlastimil, Bc.: Utilising reverse engineering in the process of manufacturing a spare part for a printer (UVTE)
15. Kövér Michal, Bc.: Analysis of phase transformations in selected low-alloy steels by thermal and computational methods (UMAT)
16. Krčová Monika, Bc.: History of the secondary technical school in Trnava (KIP)
17. Kuruc Marcel, Bc.: Improving the shape precision and surface quality of weld joints (UVTE)
18. Lábsky Adam, Bc.: Proposal for a teaching aid (KIP)
19. Longauer Ján, Bc.: Experimental investigation of the effect of voltage on electrodes in the technological process of electrochemical polishing of castings (UVTE)
20. Novotný Juraj, Bc.: Application of the QFD method in designing a new pumping aggregate in an industrial enterprise (UPMK)

21. Rolník Ladislav, Bc.: Construction design of clutch lamellas for reduced thickness (UVSM)
22. Schanz Tomáš, Bc.: Optimising the consumption of the shielding gas in MAG welding (UVTE)
23. Schottert Tomáš, Bc.: Utilisation of reverse engineering in the production of clockwork gearing (UVTE)
24. Sroka Michal, Bc.: Inference engine of rule-based expert systems (UIAM)
25. Škulibová Jana, Bc.: Importance of psycho-hygiene in controlling the burn-out syndrome in the job of a teacher (KIP)
26. Štefko Tomáš, Bc.: Study into biodegradability by means of O_2 and CO_2 indicators in a laboratory bioreactor (UBEI)
27. Tomčík Matúš, Bc.: Nanocomposite hard layers resistant to oxygen at high temperatures (UMAT)
28. Trávničková Eva, Bc.: Analysis and prevention of neurosis incidence amongst secondary-school students (KIP)
29. Turičík Miloš, Bc.: Implementation of SCADA system and data distribution via radio-modems in an existing dispatcher workplace (UIAM)
30. Venény Peter, Bc.: Design of a foundry model by using CAx technologies (UVTE)
31. Vittek Dušan, Bc.: Increasing the reliability of the device for transporting car bodies in PSA Peugeot Citroen, Trnava (UVSM)
32. Zelenáková Monika, Bc.: Analysis of the secondary school students' creativity and options for its development (KIP)
33. Žitňanský Tomáš, Bc.: Using a thermo-camera for predictive maintenance of house service boards and lifts (UBEI)

06/2012 – Mayor of Trnava's Award for outstanding study achievements:
Bc. Monika Zemková, STU MTF student

06/2012 – Award of the Slovak Maintenance Society for Master's thesis in 2011:
Ing.Peter Levický, STU MTF student, master's thesis entitled "Proposal for the maintenance safety regulations for a press-shop in PCA Slovakia s r.o., Trnava", thesis supervisor: Ing. Vladimír Vajcík.

<u>Sport competitions</u>:

04/2012 – STU Rector's Cup

SWIMMING
Korčeková Kamila: 1x 1st place, 3x 2nd place, 1x 3rd place.
Janská Miroslava: 1x 1st place, 2x 2nd place, 2x 3rd place
Kořínková Miriama: 1x 3rd. place
Ulehla Filip: 1x 2nd place, 1x 3rd place
Kováč Michal: 1x 3rd place
Lukačovič Andrej: 1x 3rd place
Kákoš Juraj: 1x 3rd place

TABLE TENNIS
students/males: ***quarterfinal***
students/ females: ***quarterfinal***

FOOTBALL
students: 2nd place

VOLLEYBALL
students/males: 1st place
students/ females: 3rd place

BASKETBALL
*students: **5th place***

FLOORBALL
*students: **4th place***

Results of the Student Research Conference 2012

INSTITUTE OF MATERIALS

Section: Materials	**Title of contribution**	**Supervisor**
Winners		
1. Bc. Libor Ďuriška	Analysis of phase equilibriums and building the thermodynamic database for complex metal Al-based alloys	Ing. Ivona Černičková
2. Filip Polakovič	Analysis of C10 and 16MnCr5 construction steels processed by carbonitration	Ing. Karin Kocúrová
3. Roman Múčka	Determining the effect of composition on the vulcanisation rate of rubber mixtures	Ing. Martin Tóth

INSTITUTE OF PRODUCTION SYSTEMS AND APPLIED MECHANICS

Section: Production Devices and Systems	**Title of contribution**	**Supervisor**
Winners		
1. Martin Krivý	Design of an automated PLC controlled system	Ing. Roman Ružarovský, PhD.
2. Bc. Ján Bartek	Concept of a JUOS module using catalogue components	Ing. Marcela Bučányová, PhD.
3. Bc. Patrik Vlček	Design of an end effector for industrial IRB-120 robot	Prof. Ing. Karol Velíšek, CSc.

INSTITUTE OF PRODUCTION TECHNOLOGIES

Section: Production	**Title of contribution**	**Supervisor**

Technologies 1
Winners

1. Bc. Klaudia Kráľovičová	Parametric model of a hip endo-prosthesis	Assoc.Prof. Ing. Peter Pokorný, PhD.
2. Oliver Rovný	Using non-conventional materials, elements and principles for the construction of machine tools	Ing. Jozef Charbula
3. Bc. Marcel Kuruc	Improving the shape accuracy and surface quality of a weld surfaces	Prof. Ing. Ivan Baránek, CSc.

Section: Production Technologies 2	**Title of contribution**	
Winners		
1. Bc. Marek Šipkovský	Design of technology for welding Al components in air-conditioning service boards	Ing. Jozef Bárta, PhD.
2. Miroslav Jáňa	Effect of atmosphere and vacuum on the character of weld joints prepared by explosion	Prof. Ing. Milan Turňa, PhD. EWE, IWE

INSTITUTE OF INDUSTRIAL ENGINEERING, MANAGEMENT AND QUALITY

Section: Industrial Engineering, Management and Quality 1	**Title of contribution**	**Supervisor**
Winners		
1. Bc. Monika Hlavatá	Proposal for improving EMS systems within IMS by adopting a process approach with a CSR strategy in TSS GRADE, a.s.	Prof. Ing. Peter Sakál, CSc. Ing. Gabriela Hrdinová, PhD.
2. Marianna Baťková	Proposal for improving the production and storage system in Hammerbacher SK, a.s.	Assoc.Prof. Ing. Helena Vidová, PhD.
3. Bc. Ľubomír Šmida	Contribution to the vision of a CSR business within the context of sustainable development	Prof. Ing. Peter Sakál, CSc. Ing. Gabriela Hrdinová, PhD.

Section: Industrial Engineering, Management and Quality 2	**Title of contribution**	**Supervisor**
Winners		
1. Roman Blažo	Analysis of communication barriers in the information flow for an industrial enterprise	Assoc.Prof. Ing. Andrea Holková, PhD.

2. Vladimír Krajčo	Development of managerial roles in middle management	Ing. Jaromíra Vaňová, PhD.
3. Bc. Veronika Koníčková Bc. Martina Špirková Lucia Vyskočová	Impact of an ageing population on the workforce in industry	Assoc.Prof. Ing. Jana Šujanová, CSc

INSTITUTE OF SAFETY AND ENVIRONMENTAL ENGINEERING

Section: Chemical hazards and dangerous substances **Winners**	**Title of contribution**	**Supervisor**
1. Jana Drhová	Emergency planning in handling dangerous substances	Assoc.Prof. Ing. Ivana Tureková, PhD.
2. Zuzana Blašková	Determining the ozone concentration in selected activities	Assoc.Prof. Ing. Maroš Soldán, PhD.
3. Radka Štetinová	Transport of dangerous materials excluded from the requirements of ADR agreement	Ing. Adela Poliaková, PhD.

Section: Safety and Health Protection **Winners**	**Title of contribution**	**Supervisor**
1. Peter Kaiser	Analysis of residual risks	Ing. Miroslav Slovák
2. Lenka Lužáková	Complex security assessment in production of ADLO doors	Ing. Jozef Harangozó, PhD.
3. Miroslava Kotúčková	Health and safety in the production of steel constructions	Ing. Tomáš Chrebet, PhD.

Section: Fire engineering **Winners**	**Title of contribution**	**Supervisor**
1. Marek Horúcka	Determining the effects of fire on the voltage decrease and insulation resistance of electric cables	Ing. Jozef Martinka, PhD.
2. Michal Kráľovič	Fire and technical characteristics of plastic packaging in retail chains	Assoc.Prof. Ing. Ivana Tureková, PhD.
3. Milan Dermek	Automobiles of the fire and rescue brigades	Assoc.Prof. Ing. Mikuláš Monoši, PhD.

INSTITUTE OF APPLIED INFORMATICS, AUTOMATION AND MATHEMATICS

Section: Applied Informatics and Automation in Industry **Winners**	**Title of contribution**	**Supervisor**
1. Bc. Gabriel Gašpar	Distributed system of	Ing. Michal Kebísek, PhD.

	temperature data collection	
2. Bc. Ivan Pagáč	Design and implementation of an Information System (IS) supporting the property management	Assoc.Prof. Ing. Pavol Tanuška, PhD.
3. Bc. Adam Čelko	Samples positioning by means of a laser scanner	Ing. Michal Kopček, PhD.

DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

Section: Humanities Winners	**Title of contribution**	**Supervisor**
1. Petra Niklová	Motivating the STU MTF students toward better study achievements	Ing. Veronika Horňáková PhDr. Andrea Hagovská
2. Bc. Martina Deckárová	Competency model for the study programme of personnel policy in an industrial plant	PhDr. Andrea Hagovská
3. Bc. Martina Hudáková	Supporting creativity of the STU MTF students	PhDr. Andrea Hagovská

Section: English Language Winners	**Title of contribution**	**Supervisor**
1. Marián Hammel	Setting up a student business	Mgr. Gabriela Chmelíková, PhD.
2. Miroslav Lipovský	Summer job opportunities for students	PhDr. Emília Mironovová
3. Miriama Kořínková Juliana Valková	WolframAlpha webpage – a tool friend for students	Mgr. Gabriela Chmelíková, PhD.

<u>Events organised for potential and current STU MTF students in 2012:</u>

01/2012	Open Day (Trnava)
02/2012	Open Day (Detached workplace in Komárno)
02/2012	Doctoral Students' Week
03/2012	Student Research Conference 2012
03/2012	Presentation by Johnson Controls Trenčín, s r.o. (job offer for graduates)
03/2012	Presentation by of ESCAD Slovakia, s.r.o. (job offer for graduates)
03/2012	Presentation by PMP Montex s r.o. (job offer for graduates)
03/2012	Presentation "Production systems in Volkswagen Slovakia"
03/2012	STU MTF promotion in secondary schools in Galanta, Myjava, Spišská Stará Ves, Zlaté Moravce, Nové Zámky and Vráble.
03-04/2012	Election to the Student Board of the SR Universities for the term of 2012-2014
04/2012	Presentation of TRW Automotive (Slovakia) s r.o. (job offer for graduates)

04/2012	Discussion with a psychologist
04/2012	Excursion to Kia Motors Slovakia
04-08/2012	Competition of PhD students “Innovation in the Automotive Sector 2012”
05/2012	International doctoral seminar
05/2012	Student questionnaire – print system
06-08/2012	Graduation of Master’s degree students
08-09/2012	Enrolments of new students
09/2012	Summer Olympic Games of secondary school students
10/2012	Presentation of Grand Power (JCI – Slovakia)
10/2012	Presentation of Lenovo (job offer for graduates)
10/2012	Evaluation of the student questionnaire on education quality for the academic year 2011/12
11/2012	Presentation by Ladislav Kossár
11/2012	Presentation by Ivo Toman
11/2012	Immatriculation of 1st year students
11/2012	STU MTF presentation at the European Education Fair “Gaudeamus” (Brno, Czech Republic)
12/2012	Commencement of the student questionnaire process
12/2012	SAIA information seminar at MTF

This part of Annual Report 2012 was verified by Assoc. Prof. RNDr. Mária Mišútová, PhD and Assoc. Prof. Ing. Peter Schreiber, PhD.