

DEPARTMENT OF QUALITY MANAGEMENT

Faculty of Metallurgy and Materials Engineering

VŠB – Technical University of Ostrava



2013 – The Annual Activities Review

Contact:

Department of Quality Management
FMME, VŠB-TU Ostrava
17. listopadu 15
708 33 Ostrava - Poruba
Czech Republic

Prof. Ing. Jiří Plura, Ph.D.
(*Head of Department*)
Tel.: 0420/597 324 500
E-mail: jiri.plura@vsb.cz

Renata Zavadilová
(*Secretary*)
Tel.: 0420/597 324 214
Fax: 0420/596 994 218
E-mail: renata.zavadilova@vsb.cz

Internet: <http://katedry.fmmi.vsb.cz/639/indexag.htm>

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INTRODUCTORY WORD

Dear friends,

as every year we would like to inform you about main activities of the Department of Quality Management, Faculty of Metallurgy and Materials Engineering, VSB-Technical University of Ostrava last year.

Department of Quality Management is an important university workplace in Czech Republic providing comprehensive education in the quality management specialisation. On the basis of accreditation of Ministry of Education, Youth and Sports the department assures education of specialists in bachelor, master and doctoral study programmes and teaching of specialised subjects for other branches of study at VSB-Technical University of Ostrava. Members of department are authors of several books which are widely used in practice and as study materials for quality management teaching at many of Czech and foreign universities.

Research activities of the department are oriented to the development of quality management systems and integrated management systems and development of suitable methodologies, tools and statistical methods for effective application of quality planning and quality improvement. Department members are also involved in the solution of research projects in other branches, where they utilise their specific knowledge. Plentiful is also cooperation with practice.

Last year 32 students graduated bachelor study and 28 students graduated further MSc. study of Quality Management study branch on the department. Two Ph.D. students successfully graduated doctoral study of study branch Management of Industrial Systems.

In 2013, the department prepared a new accreditation of bachelor's and master's study program Quality Management. In accordance with the requirements of practice, some new subjects were included into new study plans and a number of existing subjects have been upgraded. The approval of new accreditation valid until 2020 was the reward for this effort.

As every year, department cooperated in the organizing of traditional annual conference with international participation KVALITA-QUALITY and organized annual meeting of representatives of departments and secondary schools teaching quality management.

More detailed information about activities of Department of Quality Management in 2013 is given in the next text.

Prof. Ing. Jiří Plura, PhD.
Head of Department of Quality Management
Faculty of Metallurgy and Materials Engineering
VSB-Technical University of Ostrava

THE DEPARTMENT MISSION

The practical implementation of the quality management philosophy by means of bachelor, master and PhD education, project solving and consultancy offered to various stakeholders is the principal mission of the Department of Quality Management of VŠB-Technical University of Ostrava.

THE DEPARTMENT VISION

Also for the future to be the most advanced university workplace of education and special project solving in the field of quality management with regards to the Middle Europe development.

1 PEDAGOGICAL AND SPECIAL STAFF OF DEPARTMENT

First name, surname, titles e-mail	Phone	Specialization
Jiří Plura, Prof. Ing., Ph.D. (<i>The Head of Department</i>) jiri.plura@vsb.cz	597 324 500	Quality Planning Methods and Tools of Quality Management Computer Aided Quality Management Data Management
Jaroslav Nenadál, Prof. Ing., Ph.D. (<i>Vice-Head of Department</i>) jaroslav.nenadal@vsb.cz	597 324 217	Quality Management Systems Quality Economics Total Quality Management
Josef Tošenovský, Prof. RNDr., Ph.D. josef.tosenovsky@vsb.cz	597 324 178	Probability and Mathematical Statistics Design of Experiments Econometrics
Růžena Petříková, Prof. Ing., Ph.D. ruzena.petrikova@vsb.cz	597 324 458 597 324 211	Quality and Human Factor Quality Management Integrated Management Knowledge Management
Darja Noskievičová, Prof. Ing., Ph.D. (<i>Department Secretary</i>) darja.noskievicova@vsb.cz	597 324 503	Statistical Process Control Tools of Quality Management Acceptance Sampling Process Management
Milan Hutýra, Doc. Ing., Ph.D. milan.hutyra@vsb.cz	597 323 714	Quality Management Systems
Petra Halfarová, Ing. Mgr. Ph.D. petra.halfarova@vsb.cz	597 324 334	Probability and Mathematical Statistics Econometrics Change Management
David Vykydal, Ing. Ph.D. david.vykydal@vsb.cz	597 324 335	Quality Management Systems Methods and Tools of Quality Management Application of Statistical Tools in Quality Management Statistical Process Control
Šárka Janků, Ing. Ph.D. sarka.janku@vsb.cz	597 324 319	Quality and Human Factor Quality Management Knowledge Management
Pavel Klaput, Ing. pavel.klaput@vsb.cz	597 324 211	Application of Statistical Tools in Quality Management Methods and Tools of Quality Management Computer Aided Quality Management

2 THE EDUCATION ACTIVITIES

The department guarantees bachelor and master studies within special branch of Quality Management. The department ensures an engineering education for quality management at Faculty of Metallurgy and Materials Engineering, at Faculty of Mining and Geology, at Faculty of Electrical Engineering and Informatics, at Faculty of Safety Engineering and Faculty of Mechanical Engineering. A PhD study is possible to study within study program „Management of Industrial Systems”.

2.1 The Review of Education Activities at Fulltime and Extramural Study

Faculty	Year	Kind of Study	Subject (hours per week)	Lecturer
FMME	2.	BF	Theory of Probability (2-2)	Prof. RNDr. J. Tošenovský, Ph.D. Ing. Mgr. P. Halfarová
FMME	2.	BF	Quality Management Systems I. (2-2)	Prof. Ing. J. Nenadál, Ph.D. Ing. Š. Janků, Ph.D.
FMME	3.	BF	Quality and Human Factor (4-2)	Prof. Ing. R. Petříková, Ph.D. Ing. Š. Janků, Ph.D.
FMME	3.	BF	Computer Aided Quality Management I. (1-2)	Prof. Ing. J. Plura, Ph.D. Ing. D. Vykydal, Ph.D.
FMME	3.	BF	Quality Planning I. (2-2)	Prof. Ing. J. Plura, Ph.D. Ing. D. Vykydal, Ph.D.
FMME	3.	BF	Quality Management (2-2)	Prof. Ing. J. Nenadál, Ph.D. Ing. D. Vykydal, Ph.D. Ing. P. Klaput
FMME	3.	BF	Mathematical Statistics (3-2)	Prof. RNDr. J. Tošenovský, Ph.D. Ing. Mgr. P. Halfarová
FMME	3.	BF	Social Communication (0-2)	Prof. RNDr. J. Tošenovský, Ph.D.
FMME	3.	BF	Basic Statistical Methods for Quality Management (2-2)	Prof. Ing. D. Noskiewičová, Ph.D. Ing. P. Klaput
FMME	3.	BF	Study Field Seminar I. (0-1)	Ing. Mgr. P. Halfarová
FMME	3.	BF	Study Field Seminar II. (0-4)	Ing. Mgr. P. Halfarová
FMME	3.	BF	Quality planning I (2-2)	Prof. Ing. J. Plura, Ph.D.
FMME	2.	BE	Theory of Probability (18-0)	Prof. RNDr. J. Tošenovský, Ph.D.
FMME	2.	BE	Study Field Seminar (0-4)	Ing. Mgr. P. Halfarová
FMME	2.	BE	Quality Management Systems I. (12-0)	Prof. Ing. J. Nenadál, Ph.D.
FMME	3.	BE	Quality and Human Factor (12-0)	Prof. Ing. R. Petříková, Ph.D.
FMME	3.	BE	Computer Aided Quality Management I. (18-0)	Prof. Ing. J. Plura, Ph.D.
FMME	3.	BE	Quality Planning I. (12-0)	Prof. Ing. J. Plura, Ph.D.
FMME	3.	BE	Quality Management (14-0)	Prof. Ing. J. Nenadál, Ph.D.
FMME	3.	BE	Mathematical Statistics (18-0)	Prof. RNDr. J. Tošenovský, Ph.D.

Faculty	Year	Kind of Study	Subject (hours per week)	Lecturer
FMME	3.	BE	Basic Statistical Methods for Quality Management (12-0)	Prof. Ing. D. Noskiewičová, Ph.D.
FMME	3.	BE	Study Field Seminar I. (0-4)	Ing. Mgr. P. Halfarová
FMME	3.	BE	Study Field Seminar II. (0-4)	Ing. Mgr. P. Halfarová
FMME	3.	BE	Study Field Practice (0-14)	Ing. Mgr. P. Halfarová
FMME	1.	MF	Computer Aided Quality Management II. (1-2)	Prof. Ing. J. Plura, Ph.D. Ing. P. Klaput
FMME	1.	MF	Quality Planning II. (2-2)	Prof. Ing. J. Plura, Ph.D.
FMME	1.	MF	Quality Management Systems II. (2-2)	Prof. Ing. J. Nenadál, Ph.D.
FMME	1.	MF	Mathematical Statistics (3-2)	Prof. RNDr. J. Tošenovský, Ph.D. Ing. Mgr. P. Halfarová
FMME	1.	MF	Design of Experiments (2-1)	Prof. RNDr. J. Tošenovský, Ph.D.
FMME	1.	MF	Econometrics (2-2)	Prof. RNDr. J. Tošenovský, Ph.D. Ing. Mgr. P. Halfarová
FMME	1.	MF	Special Statistical Methods (2-4)	Prof. Ing. D. Noskiewičová, Ph.D.
FMME	1.	MF	Thesis Seminar (0-4)	Prof. Ing. D. Noskiewičová, Ph.D.
FMME	1.	MF	Environment and Safety Management (2-2)	RNDr. A. Labodová, Ph.D. Doc. Ing. M. Smetana, Ph.D. Ing. J. Kodýmová, Ph.D.
FMME	1.	MF	Systems of Information Safety Management (3-2)	Ing. V. Štverka
FMME	2.	MF	Knowledge Management (2-2)	Prof. Ing. R. Petříková, Ph.D. Ing. Š. Janků, Ph.D.
FMME	2.	MF	Process Management (3-2)	Prof. Ing. D. Noskiewičová, Ph.D.
FMME	2.	MF	Thesis Seminar (0-4)	Prof. Ing. D. Noskiewičová, Ph.D.
FMME	2.	MF	Change Management (3-2)	Ing. Mgr. P. Halfarová
FMME	2.	MF	Technical Standardization and Testing (3-1)	Ing. V. Bartoš, Ph.D.
FMME	2.	MF	Methods of Quality Control and Inspection (2-2)	Prof. Ing. J. Plura, Ph.D. Ing. P. Klaput
FMME	1.	ME	Computer Aided Quality Management II. (16-0)	Prof. Ing. J. Plura, Ph.D.
FMME	1.	ME	Quality Planning II. (14-0)	Prof. Ing. J. Plura, Ph.D.
FMME	1.	ME	Quality Management Systems II. (16-0)	Prof. Ing. J. Nenadál, Ph.D. Ing. D. Vykydal, Ph.D.
FMME	1.	ME	Mathematical Statistics (18-0)	Prof. RNDr. J. Tošenovský, Ph.D.
FMME	1.	ME	Design of Experiments (18-0)	Prof. RNDr. J. Tošenovský, Ph.D.
FMME	1.	ME	Econometrics (14-0)	Prof. RNDr. J. Tošenovský, Ph.D.
FMME	1.	ME	Special Statistical Methods (18-0)	Prof. Ing. D. Noskiewičová, Ph.D.

Faculty	Year	Kind of Study	Subject (hours per week)	Lecturer
FMME	1.	ME	Thesis Seminar (0-4)	Prof. Ing. D. Noskiewičová, Ph.D.
FMME	1.	ME	Environment and Safety Management (12-0)	RNDr. A. Labodová, Ph.D. Doc. Ing. M. Smetana, Ph.D. Ing. J. Kodýmová, Ph.D.
FMME	1.	ME	Systems of Information Safety Management (16-0)	Ing. V. Štverka
FMME	2.	ME	Knowledge Management (16-0)	Prof. Ing. R. Petříková, Ph.D.
FMME	2.	ME	Process Management (16-0)	Prof. Ing. D. Noskiewičová, Ph.D.
FMME	2.	ME	Thesis Seminar (0-4)	Prof. Ing. D. Noskiewičová, Ph.D.
FMME	2.	ME	Change Management (14-0)	Ing. Mgr. P. Halfarová
FMME	2.	ME	Technical Standardization and Testing (14-1)	Ing. V. Bartoš. Ph.D.
FSE	2.	BF	Quality Management I. (2-1)	Ing. D. Vykydal, Ph.D. Ing. P. Klaput
FSE	3.	BF	Quality Management II. (2-2)	Ing. D. Vykydal, Ph.D.
FSE	2.	BE	Quality Management I. (12-0)	Ing. D. Vykydal, Ph.D.
FSE	2.	BE	Quality Management (12-0)	Ing. D. Vykydal, Ph.D.
FSE	3.	BE	Quality Management II. (12-0)	Ing. D. Vykydal, Ph.D.
FEE	3.	BF	Quality Management II. (2-2)	Doc. Ing. M. Hutyra, Ph.D. Ing. D. Vykydal, Ph.D. Ing. P. Klaput
FEE	3.	BE	Quality Management I. (14-0)	Doc. Ing. M. Hutyra, Ph.D.
FME	2.	ME	The Theory of Quality at Maintenance (10-0)	Prof. Ing. J. Nenadál, Ph.D. Ing. D. Vykydal, Ph.D.
FMG	2.	MF	Quality Management (2-2)	Prof. Ing. J. Nenadál, Ph.D. Ing. D. Vykydal, Ph.D. Ing. P. Klaput
FMG	2.	ME	Quality Management (12-0)	Prof. Ing. J. Nenadál, Ph.D. Ing. D. Vykydal, Ph.D.
FMG	2.	ME	Quality Management (12-0)	Ing. D. Vykydal, Ph.D.

Glossary:

B – Bachelor study

M – Further (master) study

F – Full – time study

E – Extramural study

FMME – Faculty of Metallurgy and Materials Engineering

FMG – Faculty of Mining and Geology

FSE – Faculty of Safety Engineering

FEE – Faculty of Electrical Engineering and Computer Science

FME – Faculty of Mechanical Engineering

2.2 The defended bachelor thesis within bachelor study Quality Management

Graduate	Bachelor Thesis	Supervisor
Břečková Lucie	Innovation of Quality Manual According to the ČSN EN ISO/IEC 17020:2012 Standard.	Prof. Ing. J. Nenadál, Ph.D.
Čupera Petr	Problem Solving Improvement at Supplier for Automotive Industry	Prof. Ing. D. Noskiewičová, Ph.D.
Falharová Jarmila	Possibilities of Improved Meeting the Requirements of Selected Customers for Product Quality Planning Process.	Prof. Ing. J. Plura, Ph.D.
Forst Ondřej	Updating the Guidelines related to the Quality of Products.	Ing. Mgr. P. Halfarová, Ph.D.
Gutová Jolanta	The Analysis of the Appropriateness and Effectiveness of Implementation of Internal Audits in Strojírny Třinec, a.s .	Ing. Š. Janků, Ph.D.
Hradil Karel	Analysis of Possibilities to Improve Backward Traceability of Safety Parts in Sitting Systems Production.	Prof. Ing. D. Noskiewičová, Ph.D.
Charwot Pavel	Sampling of Purchased Input Raw Materials to Ensure Quality of Metallurgical Production.	Ing. P. Klaput
Chreňo Milan	Use of FMEA Method at Optimizing of Engine Making Process.	Ing. D. Vykydal, Ph.D.
Kabeláčová Lucie	Monitoring and Measurement of Employee Satisfaction in the Engineering Company.	Ing. P. Klaput
Konečná Ivana	The Analysis of Internal and External Quality Audits Realization in Metallurgy Organization.	Ing. Mgr. P. Halfarová, Ph.D.
Kořená Petra	Analysis and Optimization of the Process of Management and Storage of Maintenance Records.	Ing. Mgr. P. Halfarová, Ph.D.
Macek Radim	Establishment of a Procedure for Internal Calibration of the Linear Gauge and Evaluation of Measurement Uncertainties.	Ing. P. Klaput
Manderlová Lenka	Analysis of Customer Satisfaction with and Loyalty to the Products of Bohemie and Lybar Company.	Prof. RNDr. J. Tošenovský, Ph.D.
Marosz Martin	Analysis and Evaluation of the Benefits of TPM Application.	Ing. Mgr. P. Halfarová, Ph.D.
Martinek Jiří	Application of FMEA on Solution Annealing Process.	Ing. D. Vykydal, Ph.D.
Pavlíček Petr	Analysis of the Application of Acceptance Sampling.	Ing. P. Klaput
Pekárek Čestmír	Reduction in Scrap Rate in Production - Elimination of Costs Due to Poor Quality.	Ing. D. Vykydal, Ph.D.
Pilch Lubomír	Possibilities of Increasing Effectiveness of Welding Works Quality Management in D5, Joint-Stock Company, Třinec	Prof. RNDr. J. Tošenovský, Ph.D.

Graduate	Bachelor Thesis	Supervisor
Plhák Luboš *	The Proposal of Change of Process of Control and Evaluation of Nonconforming Product.	Ing. D. Vykydal, Ph.D.
Polláková Natália	Analysis and Adaptation of Integrated Management System Manual.	Ing. D. Vykydal, Ph.D.
Sedláček Daniel	Process Approach Application at Police CR, Regional Headquarters of Moravian Silesian Region.	Prof. Ing. J. Nenadál, Ph.D.
Sklářová Marie	Establishing of Process of Supplier Evaluation.	Prof. Ing. J. Nenadál, Ph.D.
Skoumalová Monika	Evaluation of Process Capability in the Organization of the Chemical Industry.	Ing. P. Klaput
Smajdorová Tereza	The Analysis of Efficiency of Nonconformity Management.	Ing. Š. Janků, Ph.D.
Škabraha David	Complaints Solving Using 8D Report in Company Producing Safety Components for the Automotive Industry.	Ing. P. Klaput
Tkáč Petr	Statistical Evaluation of Profiled Bars Mechanical Properties after Hot Forming.	Prof. RNDr. J. Tošenovský, Ph.D.
Ujházy Daniel	Implementation of 5S Methodology in Organization of Metallurgical Industry.	Ing. Mgr. P. Halfarová, Ph.D.
Vavrečka Roman	Analysis of Process and Results of Internal Audits in Metallurgical Company.	Ing. D. Vykydal, Ph.D.
Žváčková Monika	Analysis of Application of Statistical Process Control on Crimping Process.	Prof. Ing. D. Noskiewičová, Ph.D.

* This work ranked first place in the national competition for the F. Egermayer Prize, held by the Czech Society for Quality.

2.3 The defended diploma thesis within engineering study Quality Management

Graduate	Diploma Thesis	Supervisor
Bernátková Věra, Bc.	Increase Performance of Parts Production Processes using Lean Manufacturing Philosophy.	doc. Ing. M. Hutýra, Ph.D.
Čečotka David, Bc.	Evaluation of Effects of Selected Process and Technological Parameters on the Final Mechanical Properties of Rails, Using Statistical Methods.	Prof. RNDr. J. Tošenovský, Ph.D.
Dudová Kateřina, Bc.	Advanced Techniques of Process Capability Analysis.	Prof. Ing. J. Plura, Ph.D.
Eichler Tomáš, Bc.	Exploring the Competitive Position of Sales Organization through External Benchmarking in Fashion Branch.	Prof. Ing. J. Nenadál, Ph.D.
Hodr Antonín, Bc.	Possibilities of Using the DOE Method for Resistance-Based Welding of Contacts.	Prof. RNDr. J. Tošenovský, Ph.D.
Hojdyš Igor, Bc.	Identification of the Possible Introduction of TRIZ Methodology.	Ing. Mgr. P. Halfarová, Ph.D.

Graduate	Diploma Thesis	Supervisor
Hrabina Adam, Bc.	Analysis of Possibilities for Application of Artificial Intelligence Methods within Quality Management.	Prof. Ing. D. Noskiewičová, Ph.D.
Hrubý Petr, Bc.	Proposal of Quality Costing System at Company 5M s.r.o.	Prof. Ing. J. Nenadál, Ph.D.
Jelínková Radka, Bc.	Application of Internal Benchmarking in the Field of Quality Technicians Performance.	Prof. Ing. R. Petříková, Ph.D.
Konvička Luboš, Bc.	Analysis and Proposal of Improvement of Reclamation Process.	Ing. D. Vykydal, Ph.D.
Malina Čestmír, Bc.	Analysis of Processes with Influence on the Electrical Connection Quality of PCB and THT Components.	Prof. RNDr. J. Tošenovský, Ph.D.
Mičanová Markéta, Bc.	Implementation of Computer Aided Quality Control into Series Production.	Prof. Ing. J. Plura, Ph.D.
Mlčoušková Daniela, Bc.	Modified Approach to Application of Methods of Design and Development.	Ing. D. Vykydal, Ph.D.
Monsportová Lenka, Bc.	Possibilities of Using an Expert System, Fuzzy Sets and Multivariate Loss Functions to Manage and Assess Quality of Technological Processes.	Prof. RNDr. J. Tošenovský, Ph.D.
Mrozková Natálie, Bc.	Improving the Process of Introducing New Products in the Organization Producing Rubber and Plastic Parts.	Prof. Ing. J. Plura, Ph.D.
Mužiková Lenka, Bc.	Application of Production Parts Approval Process in the Organization of the Electrical Industry.	Prof. Ing. J. Plura, Ph.D.
Novák Zbyněk, Bc.	Capability Analysis of Casings Threading Process.	Prof. Ing. J. Plura, Ph.D.
Pátková Pavlína, Bc.	The Importance of the CSR Concept and its Use in the Czech Republic (with Focusing on the Business Environment in Moravian-Silesian region).	Prof. Ing. R. Petříková, Ph.D.
Petrošová Lenka, Bc.	Extension of Quality Manual at Metallurgical Organization according to the Requirements of the ČSN P ISO/TS 16949.	Prof. Ing. J. Nenadál, Ph.D.
Prokopová Veronika, Bc.	Improvement of Supplier Management at Medical Components Producer.	Prof. Ing. D. Noskiewičová, Ph.D.
Tatarčík Ondřej, Bc.	Analysis and Improvement of JIDOKA System at Electronic Components Production.	Prof. Ing. D. Noskiewičová, Ph.D.
Tesařová Lucie, Bc.	Use of Selected Mathematical and Statistical Methods for Data Analysis Related to the Area of Quality.	Ing. Mgr. P. Halfarová, Ph.D.
Vrbová Martina, Bc.	Proposal of Standard Check-list for Realization of Customer Audits.	Ing. D. Vykydal, Ph.D.

2.4 PhD Study

PhD Student (Full-time study/ Combined study)	Accepted from	Topic of Thesis	Supervisor
Ing. Martin Kotásek <i>Combined study</i>	1.10.2006	The Excellence Principles Implementation at Machinery Organizations.	Prof. Ing. J. Nenadál, Ph.D.
Ing. Kateřina Brodecká** <i>Combined study</i>	1.10.2006	The Application of Selected Statistical Methods within Conditions of Highly Capable Processes.	Prof. Ing. D. Noskiewičová, Ph.D.
Ing. Marek Polák* <i>Combined study</i>	1.10.2007	The Bata's Management System – its Implementation at Company Practice.	Prof. Ing. R. Petříková, Ph.D.
Ing. Pavlína Penhakerová <i>Combined study</i>	1.10.2008	The Quality Evaluation at Universities.	Doc. Ing. Milan Hutýra, Ph.D.
Dipl. Ing. Ralf Holstein <i>Combined study</i>	1.7.2008	Requirements profile for Uniform European Materials Tester (NDT).	Prof. Ing. J. Nenadál, Ph.D.
Ing. Karel Chobot** <i>Combined study</i>	1.10.2008	The Possibilities of Six Sigma Strategy Implementation at Selected Departments of the Organization.	Prof. RNDr. J. Tošenovský, Ph.D.
Ing. Pavel Klaput <i>Combined study</i>	1.10.2009	Methodical Approaches to Measurement Systems Analysis.	Prof. Ing. J. Plura, Ph.D.
Ing. Marek Gašparín <i>Combined study</i>	1.10.2009	The Study of Implementation Quality Management System at Rescue Operating Centers of Fire Brigades..	Doc. Ing. M. Hutýra, Ph.D.
Mgr. Blanka Hrbková Hrudková <i>Combined study</i>	1.10.2009	The Problematic of Quality Management Implementation in the Czech Schools.	Prof. Ing. R. Petříková, Ph.D.
Ing. Kateřina Kajtová <i>Combined study</i>	1.10.2009	CSR – Realization Evaluation in Conditions of the State Administration.	Prof. Ing. R. Petříková, Ph.D.
Ing. Kateřina Bílecká <i>Combined study</i>	1.10.2009	CSR – Realization Evaluation in Conditions of the SME with the Emphasis on the Environment.	Prof. Ing. R. Petříková, Ph.D.
Ing. Jan Kosina <i>Combined study</i>	1.10.2011	Application of New findings of DOE and Six Sigma for Products Formed by a Large Number of Components.	Prof. RNDr. J. Tošenovský, Ph.D.

PhD Student (Full-time study/Combined study)	Accepted from	Topic of Thesis	Supervisor
Ing. Milan Zemek <i>Combined study</i>	1.10.2011	Possibilities of Process Capability Analysis in Non-standard Situations.	Prof. Ing. J. Plura, Ph.D.
Ing. Lubomír Lengyel <i>Combined study</i>	1.10.2012	Modeling and Simulation of Quality Management Processes in Expanding Production.	Prof. Ing. K. Zgodavová, Ph.D.
Ing. Tatiana Ustyugová <i>Full-time study</i>	1.10.2012	Analysis and Development of Possibility of the Lean and Agile Manufacturing Integration.	Prof. Ing. D. Noskievičová, Ph.D.
Ing. Marek Leidolf, MBA <i>Combined study</i>	1.10.2012	The Development of the Use of Statistical Methods in the Field of Maintenance.	Prof. Ing. D. Noskievičová, Ph.D.
Ing. Silvie Adamcová <i>Combined study</i>	1.10.2013	Development of the Methodology for the Steel Drawing Process Capability Evaluation.	Prof. Ing. D. Noskievičová, Ph.D.

* The Dissertation Thesis was defended successfully in 2013.

** The Dissertation Thesis was defended successfully in 2014.

2.5 Study stay of students in the frame of ERASMUS

Participants in study stays in the frame of ERASMUS.

Place	Student Name	Type of Study	Semester	Length of Stay	Academic Year
Univerzity of Linköping, Sweden	Bc. Jan Macura	<i>master</i>	W, S	10 months	12/13
Univerzity of Linköping, Sweden	Bc. Luboš Plhák	<i>master</i>	W, S	10 months	13/14
Univerzity of Linköping, Sweden	Ing. Tatiana Ustyugová	<i>doctoral</i>	W	3 months	13/14

3 THE RESEARCH ACTIVITIES AND GRANTS

3.1 Internal grant project FMME within specific university research SP2013/49

Project title: Application of Advanced Methods of Managerial Decision Making in Industrial Companies.

Duration: 2013

Responsible person: Doc. Ing. Radim Lenort, Ph.D.

The staff included: Prof. Ing. Jiří Plura, Ph.D., Prof. Ing. Darja Noskievičová, Ph.D., Prof. RNDr. Josef Tošenovský, Ph.D., Ing. Pavel Klaput, Ing. Milan Zemek, Ing. Tatiana Ustyugova, Bc. Karel Nepraš, Bc.

Antónia Holeňová, Bc. Ondřej Kudělka.

The project goal and outputs:

In the part of project focused on the development of advanced applications of statistical methods and modern approaches to quality management have been solved these sub-tasks: development of methodology of decisions in the field of integration of various management concepts and paradigms, development of approaches to evaluating the quality of measurement systems based on the techniques of measurement systems analysis and evaluation of measurement uncertainty, the development of approaches to the analysis of process capability in the cases of non-normality of data, development of applications of statistical process control with a focus on low volume/high mix or short run processes and analysis of methods of designing robust technologies.

3.2 Internal grant project FMME within specific university research SP2013/38

Project title: Possibilities of Increasing the Ability of Organizations to Meet Stakeholder Requirements.

Duration: 2013

Responsible person: Ing. David Vykydal, Ph.D.

The staff included: Prof. Ing. Jaroslav Nenadál, Ph.D., Ing. Mgr. Petra Halfarová, Ing. Šárka Janků, Ph.D., Bc. Adam Růžička, Bc. Martina Kocurková, Bc. Adéla Hilscherová, Bc. Júlia Holienčinová.

The project goal and outputs:

The aim of the project was the development of approaches to improve the ability of organizations to meet the requirements of customers and other stakeholders, which can contribute to improving the quality of products, possibly resulting in higher satisfaction of all stakeholders and, ultimately, to increase the competitiveness of organizations.

3.3 CZ.1.07/2.2.00/28.0300

Project title: Integrated Modular System of Computer Aided Teaching of Economic-technical Specialization.

Duration: 2012 - 2014

Responsible person: Ing. Andrea Sikorová, Ph.D.

The staff included: Prof. Ing. Jiří Plura, Ph.D., Ing. David Vykydal, Ph.D., Prof. Ing. Jaroslav Nenadál, Ph.D., Prof. Ing. Darja Noskievičová, Ph.D., Prof. RNDr. Josef Tošenovský, Ph.D., Ing. Mgr. Petra Halfarová, Ph.D., Ing. Pavel Klaput

The project goal and outputs:

The objective of the project is to create integrated modular system of computer aided teaching, which will significantly improve the quality and attractiveness of teaching economic-technical specialization through the development and creation of advanced

educational tools and materials, guaranteeing profile of the graduates desired by labor market.

3.3 IPN Quality reg. No. CZ.1.07/4.1.00/22.0001

Název projektu:	Quality Assurance and Quality Assessment in the Tertiary Education System.
Období řešení:	2010 - 2014
Odpovědný řešitel:	Prof. Ing. Karel Rais, Ph.D.
Zapojení pracovníci:	Doc. Ing. Milan Hutýra, Ph.D., Prof. Ing. Jaroslav Nenadál, Ph.D., Prof. Ing. Růžena Petříková, Ph.D., Ing. David Vykydal, Ph.D., Ing. Pavel Klaput.
Cíle a výstupy projektu:	The project is aimed at support of quality assurance and comprehensive quality assessment in the area of tertiary education. The result of the project will be the design of methodology, which in conjunction with international standards, models, documents and evaluation framework will support and enable comprehensive internal and external quality assessment of tertiary education institutions.

3.4 The sixth framework programme of the European Community for research, technological development and demonstration activities reg. No. 7AMB12SK116

Project title:	Benchmarking - A Strategy for SME
Duration:	2012-2013
Responsible person:	Prof. Ing. Jaroslav Nenadál, Ph.D.
The staff included:	Prof. Ing. Jiří Plura, Ph.D., Ing. David Vykydal, Ph.D., Ing. Mgr. Petra Halfarová, Ph.D.
The project goal and outputs:	Research of benchmarking methodology and methods used at SMEs. Design of original benchmarking model suitable for SMEs with special focus on foundry industry. Design of set of performance indicators used within the benchmarking projects at SMEs. Know-how development in the field of benchmarking application at SMEs. Through meeting the project objectives mentioned above to contribute to the Czech and Slovak SMEs' level of competitiveness increasing. To share knowledge obtained at interested parties within Czech and Slovak Republics.

3.5 ESF InterDV project reg. No. CZ 1.07/2.2.00/15.132

Project title:	The Development of Language Skills for the Academics of VSB-TUO: Inter DV
Duration:	2010 - 2013
Responsible person:	Prof. Ing. P. Noskievič, Ph.D.
The staff included:	Prof. Ing. Darja Noskievičová, Ph.D.

The project goal and outputs: The aim of the project was to increase the language skills of teachers and the development of study materials in a foreign language as for students studying degree programs in Czech well as for foreign students studying degree programs in foreign language.

3.6 ŠKODA AUTO, a.s. project, IGA 2012/9

Project title: Advanced Methods of Statistical Process Control

Duration: 2012 – 2015

Responsible person: Škoda-Auto University, Mladá Boleslav.

The staff included: Prof. Ing. Darja Noskievičová, Ph.D.

The project goal and outputs: The aims of this project are as follows: searching for the properties and applicability of the selected control charts especially for the high capable processes, formulation of the practically applicable rules for the selection of the suitable control chart, implementation of the suitable methods at selected firms and searching for the economic aspects of the introduction of analysed SPC methods.

4 THE SPECIAL EVENTS ORGANIZED BY THE DEPARTMENT

Event name	Type of events	Date	Action chair	Venue	Number of participants
Kvalita – Quality 2013	International conference	14. - 15. 5. 2013	R. Petříková, Prof. Ing. Ph.D. J. Nenadál, Prof. Ing. Ph.D.	Ostrava	168
Special meeting of higher schools representatives engaged in education for quality.	Seminar	13. 5. 2012	J. Nenadál, Prof. Ing. Ph.D., Prof. Ing. Jiří Plura, Ph.D.	Ostrava	39
Field trip for students of the quality management study field	Field trip	11. 4. 2013	D. Noskievičová, Prof. Ing. Ph.D.	Hella Autotechnik Mohelnice	40
Field trip for students of the quality management study field	Field trip	26.4.2013	D. Noskievičová, Prof. Ing. Ph.D.	Evráz Vítkovice Steel	20
Quality Planning and application of SPC in the Hella Autotechnik company	Specialized lecture	27.3.2013	Ing. Schwarz, Hella Autotechnik Mohelnice	VŠB-TU Ostrava	40

Event name	Type of events	Date	Action chair	Venue	Number of participants
Introduction of the new version of QC Expert software	Specialized lecture	May 2013	Ing. Kupka, Trylobyte Pardubice	VŠB-TUO	22

5 THE REVIEW OF ACTIVITIES AT SPECIAL EVENTS OUTSIDE THE VŠB - TU OSTRAVA

5.1 Abroad

Name	Event name	Type of event	Venue	Date	The lecture's title
M. Hutýra, Doc. Ing. Ph.D.	16th QMOD conference on Quality and Service Sciences	International conference	Portorož, Slovenia	4-6 th September 2013,	EFQM Excellence Model as the Framework for Evaluation of Performance Excellence of University.
J. Nenadál, Prof. Ing. Ph.D.	57th EOQ Congress Quality Renaissance – Co-creating a Viable Future	International conference	Tallinn (Estonia)	17.6.2013	EFQM Excellence Model as the Framework for Evaluation of Performance Excellence of University.
	Production Quality. From Quality to Responsibility and Innovations	International conference	Herľany, (Slovakia)	16.9.2013	20 Years of Quality Engineers Education at VSB-TU of Ostrava – Experience and Challenges.
	EFQM Model Excellence – Version 2013	Seminar	Bratislava (Slovakia)	30.10.2013	Leading the seminar.
	EFQM Excellence Model. Training of assessors from Slovak Office of Standards, Metrology and Testing	Seminar	Bratislava (Slovakia)	9.12.2013	Leading the seminar.
D. Noskovičová, Prof. Ing. Ph.D.	ICCC	International conference	Rytró (Poland)	May 2013	Capability Analysis for Lean Manufacturing Processes.

5.2 Inland

Name	Event name	Type of event	Venue	Date	The lecture's title
M. Hutýra, Doc. Ing. Ph.D.	Seminar for universities (IPN quality project)	Seminar	Brno	24.10.2013	Methodology for Complex Quality Assessment and its Realization at Universities.
	Quality Month – November 2013	Seminar	Ostrava	20. 11. 2013	Quality Assessment of the Universities – Information about IPN Quality Project.
Š. Janků, Ing. Ph.D.	Kvalita – Quality 2013	International conference	Ostrava	14.-15.5. 2013	If Anybody Just Talking about Ethics...
	Current social and economic issues of European society	conference	Brno	7.3. 2013	Corporate Responsibility (CSR) - Fashion Items or Change?
P. Klaput, Ing.	Metal 2013	International conference	Brno	15. – 17. 5 2013	Possibilities of Detection of Interactions Between Parts and Appraisers in the Gage Repeatability and Reproducibility Study Using Graphical Tools.
J. Nenádál, Prof. Ing. Ph.D.	Internal quality assessment of ITE	Course	Praha	20-21.3. 2013	Leading the seminar.
	International workshop IPN Quality 2013	Workshop	Praha	4-5.12. 2013	Quality Assessment of Higher Education Institutions Based on Excellence Models.
D. Noskiewičová, Prof. Ing. Ph.D.	Lecture at Czech Society of Quality	Seminar	Praha	October 2013	Advanced Methods of SPC.
	Quality Month – November 2013	Seminar	Ostrava	20.11.2013	Statistical Methods for Low Volume / High Mix Processes.

Name	Event name	Type of event	Venue	Date	The lecture's title
D. Noskiewiřov, Prof. Ing. Ph.D.	Metal 2013	International conference	Brno	15.-17.5. 2013	Complex Application of Statistical Process Control in Conditions of Profile Bars Production.
R. Petřikov, Prof. Ing. Ph.D.	Sustainable Development of Czech Companies	Professional seminar CMA	Brno	21. 3. 2013	Resource are Limited – Innovation, Creativity and Quality not.
	Quality Month – November 2013	Seminar	Ostrava	20.11.2013	Education with Added Value.
	CSR in public administration	Conference	Brno	19. 11. 2013	Shared Values and Good Relationship with Others to Greater Prosperity.
	3th Conference of CSR	Conference	Ostrava	16. 9. 2013	Czech Council for Quality and the Promotion of the Development of CSR in the Czech Republic.
	IPN Quality	International Workshop	Praha	4. – 5. 12. 2013	Moderation the Key Activities KA3: A Comprehensive Approach
	Automotive Industry Association	Professional Meeting	Olomouc	26. 9. 2013	Flexibility and Innovation.
	Quality Management in Health and Social Sectors	International conference	Ostrava	16.10. 2013	Leading the conference.
	Kvalita - Quality 2013	International conference	Ostrava	14.-15.5. 2013	Leading the conference.
	Quality Manager	Course	Ostrava	14.10. 2013 – 20.3. 2014	Leading the course.
	Human Resource Manager	Course	Ostrava	24.10. 2013 – March 2014	Leading the course.

Name	Event name	Type of event	Venue	Date	The lecture's title
J. Plura, Prof. Ing. Ph.D.	Data Analysis 2013	Conference	Pardubice	19. - 21. 11. 2013	Present Statistical Methods of Measurement System Analysis.
	Metal 2013	International conference	Brno	15.-17.5. 2013	Approaches to the Process Capability Analysis in the Case of Non-Normally Distributed Product Quality Characteristic.
J. Plura, Prof. Ing. Ph.D., P. Klaput, Ing.	REQUEST 2013	Conference	Praha	29. 11. 2013	Possibilities of Increasing the Explanatory Power of Repeatability and Reproducibility Analysis of Measurement System.
	Quality Month – November 2013	Seminar	Ostrava	20.11.2013	Possibilities of Complex Analysis of Measurement Systems.
J. Tošenovský, Prof. RNDr. Ph.D.	Metal 2013	International conference	Brno	13.-15.5. 2013	Analysis of Robust Technology Design Methods.
	Financial Management of Firms and Financial Institutions	International conference	Ostrava	9. - 10.9. 2013	Possibilities of Production Process Financial Assesment.
T. Ustyugová, Ing.	Kvalita - Quality 2013	International conference	Ostrava	14. 5. - 15. 5. 2013	Evaluation of Integration of Lean and Agile Manufacturing by Using the Fuzzy Numbers.
	Metal 2013	International conference	Brno	15. – 17. 5 2013	Fuzzy Logic Model for Evaluation of Lean and Agile Manufacturing Integration.
	Internal PhD Day 2013 - FMME	Seminar	Ostrava	8. 12. 2013	Analysis of the Factors, which Have an Influence on the Changes Requested by the Customer.

6 THE PUBLICATIONS

6.1 Journals' Articles

NENADÁL, Jaroslav, VYKYDAL, David, HALFAROVÁ, Petra, ŠEDLBAUEROVÁ, Iva. Benchmarking of Approaches for Teaching Quality Assessment at Universities by Students. [In Czech]. *Auspicia*. 2013, Vol. X, No. 1, p. 118-122. ISSN 1214-4967.

KUBALA, O., PROKOP, J., JELÍNEK, P., OSTRUZSKA, P., TOŠENOVSKÝ, Josef, IHNÁT, P., ZONČA, P.. Anatomic – Surgical Study of Intercostobrachial Nerve (ICBN) Course in Axilla During I. and II. Level of Axilla Clearance in Breast Cancer and Malignant Melanoma. [In Czech]. *Chirurgické rozhledy* 2013, Vol. 92, No. 6, p. 320-329.

VYKYDAL, David, HALFAROVÁ, Petra, NENADÁL, Jaroslav. Customer Loyalty Measurement at Czech Organizations. *Kvalita Inovácia Prosperita*. 2013, Vol. 17, No. 1, p. 28-38. ISSN 1335-1745.

SCHINDLER, Ivo, KAWULOK, Petr, RUSZ, Stanislav, PLURA, Jiří, VAŠEK, Zdeněk, PACHLOPNÍK, Radim. New Phenomenological Model of Hot Mean Flow Stress. *High Temperature Materials and Processes*. 2013, Vol. 32, No. 2, p. 133-138. ISSN 0334-6455.

VYKYDAL, David, PLURA, Jiří, HALFAROVÁ, Petra, FABÍK, Richard, KLAPUT, Pavel. Use of Quality Planning Methods in Optimizing Welding Wire Quality Characteristics. *Metalurgija = Metallurgy*. 2013, Vol. 52, No. 4, p. 529-532. ISSN 0543-5846.

USTYUGOVA, Tatiana, NOSKIEVIČOVÁ, Darja. Integration of Lean and Agile Manufacturing Based on Principles from Wikinomics. *Kvalita Inovácia Prosperita*. 2013, Vol. 17, No. 1, p. 48-56. ISSN 1335-1745.

NOSKIEVIČOVÁ, Darja. Complex Control Chart Interpretation. *International Journal of Engineering Business Management*. 2013, Vol. 5, No. 13, p. 1-7. ISSN 1847-9790.

VYKYDAL, David, HALFAROVÁ, Petra, NENADÁL, Jaroslav, PLURA, Jiří, HEKELOVÁ, Edita. Risk Analysis Related to Quality Management Principles. *Scientific Proceedings Faculty of Mechanical Engineering STU Bratislava*, Vol. 20/2012. 2012, ISSN 1338-1954.

VYKYDAL, David, HEKELOVÁ, Edita, HALFAROVÁ, Petra, NENADÁL, Jaroslav. The Process Approach at Small and Medium Enterprises – Some Lessons Learned from Czech and Slovak Companies. *Scientific Proceedings Faculty of Mechanical Engineering STU Bratislava*, Vol. 21/2013. 2013, ISSN 1338-1954.

NENADÁL, Jaroslav. The Value for Customer Analysis - Essence and Application. [In Czech]. *Kvalita*. 2013, Vol. XXI, No. 1, p. 15-23. ISSN 1335-9231.

NENADÁL, Jaroslav. Life Cycle Costing: Some Possibilities of Use Within Quality Management. *Acta Mechanica Slovaca*. 2013, Vol. 17, No. 2, p. 64-71. ISSN 1335-2393.

PETŘÍKOVÁ, Růžena. International Conference Quality 2013. [In Czech]. *Kvalita*. 2013, Vol. XXI, No. 2, p. 60-62. ISSN 1335-9231.

CIENCIALA, Jiří, JANKŮ, Šárka, PETŘÍKOVÁ, Růžena. Creativity of People Making Innovation a Key Prerequisite. [In Czech]. *Kvalita*. 2013, Vol. XXI, No. 1, p. 49-52. ISSN 1335-9231.

PETŘÍKOVÁ, Růžena. Looking for Ways to Combine the World of Education and Business. *KOMORA.cz*. 2013, Vol. 14, No. 7-8, p. 9-14. ISSN 1802-1247.

POKUSOVÁ, Marcela, HALFAROVÁ, Petra, HEKELOVÁ, Edita, VYKYDAL, David. Quality Improvement – Factor Conducive to a Survival of SME's in the Market. *Scientific Proceedings Faculty of Mechanical Engineering STU Bratislava*, Vol. 21/2013. 2013, ISSN 1338-1954

PETŘÍKOVÁ, Růžena, CIENCIALA, Jiří. Resources Are Limited the Creativity of People Not. *Acta Mechanica Slovaca*. 2013, Vol. 17, No. 2, p. 84-90. ISSN 1335-2393.

6.2 Proceeding's Articles from Scientific Conference

HALFAROVÁ, Petra, USTYUGOVA, Tatiana, VYKYDAL, David. The Application of Fuzzy FMEA. In *METAL 2013 : 22nd International Conference on Metallurgy and Materials : Conference proceedings* : May 15th - 17th 2013, Hotel Voronez I, Brno Czech Republic, EU [CD-ROM]. Ostrava : Tanger, 2013, p. 1909-1913. ISBN 978-80-87294-41-3.

TOŠENOVSKÝ, Josef, TOŠENOVSKÝ, Filip. Possibilities of Production Process Financial Assessment. In *Financial Management of Firms and Financial Institutions : 9th international scientific conference* : 9th - 10th September 2013, Ostrava, Czech Republic : proceedings. [Part 1-3]. Ostrava : VŠB-Technical University of Ostrava, 2013, p. 982-986. ISBN 978-80-248-3172-5.

TOŠENOVSKÝ, Josef, TOŠENOVSKÝ, Filip, KUDĚLKA, Ondřej. Analysis of Robust Technology Design. In *METAL 2013 : 22nd International Conference on Metallurgy and Materials : Conference proceedings* : May 15th-17th 2013, hotel Voronež I, Brno, Czech Republic, EU. Ostrava : Tanger, 2013, p. 1662-1667. ISBN 978-80-87294-39-0.

KLAPUT, Pavel, PLURA, Jiří. Possibilities of Detection of Interactions Between Parts and Appraisers in the Gage Repeatability and Reproducibility Study Using Graphical Tools. In *METAL 2013 : 22nd International Conference on Metallurgy and Materials : Conference proceedings* : May 15th - 17th 2013, Hotel Voronez I, Brno Czech Republic, EU [CD-ROM]. Ostrava : Tanger, 2013, p. 1729-1734. ISBN 978-80-87294-41-3.

PLURA, Jiří, ZEMEK, Milan, KLAPUT, Pavel. Approaches to the Process Capability Analysis in the Case of Non-Normally Distributed Product Quality Characteristic. In *METAL 2013 : 22nd International Conference on Metallurgy and Materials : Conference proceedings* : May 15th - 17th 2013, Hotel Voronez I, Brno Czech Republic, EU [CD-ROM]. Ostrava : Tanger, 2013, p. 1700-1705. ISBN 978-80-87294-41-3.

NOSKIEVIČOVÁ, Darja. Capability Analysis for Leagile Manufacturing Processes. In *Proceedings of the 2013 14th International Carpathian Control Conference (ICCC)* : Rytro, Hotel Perła Południa, Poland, May 26-29, 2013. New York : IEEE, 2013, p. 262-266. ISBN 978-1-4673-4489-0.

LEIDOLF, Marek, NOSKIEVIČOVÁ, Darja. Analysis of Maintenance Data in Terms of Possible Application of SPC. In *METAL 2013 : 22nd International Conference on Metallurgy and Materials : Conference proceedings* : May 15th - 17th 2013, Hotel Voronez I, Brno Czech Republic, EU [CD-ROM]. Ostrava : Tanger, 2013, p. 1977-1981. ISBN 978-80-87294-41-3.

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NOSKIEVIČOVÁ, Darja, JAROŠOVÁ, Eva. Complex Application of Statistical Process Control in Conditions of Profile Bars Production. In *METAL 2013 : 22nd International Conference on Metallurgy and Materials : Conference proceedings* : May 15th - 17th 2013, Hotel Voronez I, Brno Czech Republic, EU [CD-ROM]. Ostrava : Tanger, 2013, p. 1620-1628. ISBN 978-80-87294-41-3.

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SOUČKOVÁ, Ingrid, VYKYDAL, David. Cooperation between University and Industry - Bridge between Theory and Practice. In *ERIN 2013 : [Education, Research, Innovation] : 7th International Conference for Young Researchers and Ph.D. Students* : 15th-17th of May 2013, Častá-Papiernička, Slovakia : Proceedings of abstracts. Bratislava : Slovenská technická univerzita, 2013, p. 10-15. ISBN 978-80-227-3934-4.

JANKŮ, Šárka. If Anybody Just Talking about Ethics ... In *Proceedings of Conference Kvalita - Quality 2013*. [In Czech]. 14. - 15. května 2013, Ostrava: DTO CZ Ostrava, 2013, p. "D26"- "D29". ISBN 978-80-02-02463-7.

HUTYRA, Milan. EFQM Excellence Model as the Framework for Evaluation of Performance Excellence of University. In *16th QMOD conference on Quality and Service Sciences*, 4-6th September 2013, Portorož, Slovenia : Proceedings QMOD Conference on Quality and Service Sciences 2013, p. 795-804. ISBN 978-961-232-269-4

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FARANA, Radim, HUTYRA, Milan. Enhancing the Education Quality by using the Quality System and Excellence System in Higher Education. In *Proceedings of the ICEE ICIT 2013 Conference* : 9 - 11 December 2013, Cape Peninsula University of Technology. Cape Town : Cape Peninsula University of Technology, 2013, p. 463-471. ISBN 978-0-9922041-3-6.

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ADAMCOVÁ, S.: Initial Analysis of the Specifics for the Steel Drawing Capability Evaluation. In: *Seminar proceedings „Internal PhD Day 2013 - FMME..* Ostrava: VŠB – TU Ostrava, 2013, p. 93-96. ISBN 978-80-248-3248-7.

6.4 Other Publications

NOSKIEVIČOVÁ, Darja: Process Management. VŠB-TU Ostrava, 2013, 149 p.

NOSKIEVIČOVÁ, Darja: Special Statistical Methods – Nonconventional Control Charts. VŠB-TU Ostrava, 2013, 59p.

PETŘÍKOVÁ, R.: Flexibility and Innovation, instructional text for SAP Meeting, September 2013, Olomouc.

6.5 Others

PETŘÍKOVÁ, R.: . If You to Climb the Ladder, You Must Begin the First Run. In: HN – Annex KARIÉRA A VZDĚLÁVÁNÍ, 20. 11. 2013, Economia, ISSN 1213 – 7693

PETŘÍKOVÁ, R.: Quality in the Education. In: National Program of Quality 2013. Praha: Czech Council for Quality, ISBN 978-80-02-02366-2013.

7 THE REVIEWS, EXPERTISES

7.1 PhD Thesis

PhD Student	University	Topic	Assessor
Ing. Matúš Horváth	Technical University of Košice	Use of data mining methods for control of production processes.	Prof. Ing. J. Nenadál, Ph.D.
Ing. Petr Kopecký	Technical University of Košice	Implementation of the social accountability management into integrated management system.	Prof. Ing. J. Nenadál, Ph.D.
Ing. Jana Namešanská	Technical University of Košice	Design of structure of key performance indicators (KPI) for management processes.	Prof. Ing. J. Nenadál, Ph.D.
Ing. Michal Hovanec	Technical University of Košice	Ergonomic aspects in generic processes.	Prof. Ing. J. Nenadál, Ph.D.
Ing. Ivan Litvaj	ŽU v Žiline	Development of quality management systems in small businesses.	Prof. Ing. J. Nenadál, Ph.D.
Ing. Markéta Lajczyková	VŠB – TU Ostrava	Development of effectiveness evaluation methodology in area of services in geology for continuous improvement.	Prof. Ing. J. Nenadál, Ph.D.
Ing. M. Zajarošová	VŠB – TU Ostrava	Identification and assessment of the impact of factors on the process of implementing CRM systems.	Prof. Ing. D. Noskiewičová, Ph.D.
Jana Brathová, Ing.	UTB Zlín	Company as a lived body.	Prof. Ing. R. Petříková, Ph.D.
Mgr. David Sikora	Ostravská univerzita	The proposal of methodology based on expert approach for time series prediction.	Prof. RNDr. J. Tošenovský, Ph.D.

7.3 Proposals of Projects Granted

Project Title	Project Leader	The Review made for	Assessor
Activities in governing organization of FEANI and WFEO and coordination of engineering research.	J. Militký, Prof. Ing. Ph.D. EUR Ing.	ČSVTS	Prof. Ing. R. Petříková, Ph.D.
Quality of measurement processes as part of quality management systems.	doc. Ing. Jozef Petrik, Ph.D	VEGA (Scientific Grant Agency of the Ministry of Education the Slovak Republic and Slovak Academy of Sciences)	Prof. Ing. Jiří Plura, Ph.D.

7.4 International standards proposal

Standard title	The review made for	Assessor
ČSN ISO 13053-2	ÚNMZ Praha	Prof. Ing. D. Noskiewičová, Ph.D.
ČSN ISO 7870-3	ÚNMZ Praha	Prof. Ing. D. Noskiewičová, Ph.D.
ČSN ISO 7870-4	ÚNMZ Praha	Prof. Ing. D. Noskiewičová, Ph.D.
ČSN ISO 22514-7	ÚNMZ Praha	Prof. Ing. D. Noskiewičová, Ph.D.

7.5 Publications

Title	Author	Type of publication	Reviewer
Integrated Management Systems	Bugdol Marek – Jedynak Piotr (Springer Engineering London)	book	Prof. Ing. J. Nenadál, Ph.D.
Young Women in the Management System Bata	Gabriela Končítíková	book	Prof. Ing. R. Petříková, Ph.D.

7.6 Special and scientific articles

Article Title	Author	Article for Journal	Assessor
The Company Performance Measurement through Processes Performance Measurement.	anonymus	Fórum Manažera	Prof. Ing. J. Nenadál, Ph.D.
Non Conventional Usage of Quality Function Deployment Methodology.	anonymus	Fórum Manažera	Prof. Ing. J. Nenadál, Ph.D.
Tools for Science and Research Evaluation at Czech Republic	anonymus	AUSPICIA	Prof. Ing. J. Nenadál, Ph.D.
The Integration of TQM and BPR	I. Martonová	Kvalita Inovácia Prosperita	Prof. Ing. J. Nenadál, Ph.D.
The Tipping Points of Technology Development.	anonymus	Kvalita Inovácia Prosperita	Prof. Ing. J. Nenadál, Ph.D.
Performance Measurement of Energy Process in Czech Production Plants.	anonymus	Acta Universitatis Bohemiae Meridionales	Prof. Ing. D. Noskiewičová, Ph.D.
STROJBAN – Automation of Material Flow Management and Inspection Activities with Using in the Forges and Foundries.	M. Jelínek, J. Dvořák	Kovárenství	Prof. Ing. J. Plura, Ph.D.
Project Management and ISO 21500.	P. Řeháček	Hutnické listy	Prof. Ing. J. Plura, Ph.D.
Effect of the Test Load on the Quality of Microhardness Measurement.	J. Petřík	Q-Magazín	Prof. Ing. J. Plura, Ph.D.
Stochastic Work Shift Design Driven by the Six Sigma Concept.	anonymus	Quality, Innovation, Prosperity	Prof. Ing. J. Plura, Ph.D.

8 THE CO-OPERATION WITH PRACTICE

Action	Customer	Supplier
Presentation for Automotive Industry Association	KOYO Bearing ČR s.r.o. Olomouc	Prof. Ing. R. Petříková, Ph.D.
Process capability estimation and methods of Taguchi	DTO CZ, s.r.o.	Prof. RNDr. J. Tošenovský, Ph.D.

9 THE ACTIVITIES IN THE CERTIFICATION BODY ACM DTO CZ

The department has already participated in founding of certification body for personal certification ACM with The House of Technology Ostrava in 1995. This certification body has been accredited for these functions:

For the Field of Quality

Quality Manager
Quality Professional
Quality Auditor

For the Field of Environmental Management

Manager and Auditor EMS

For the Field of Standardization

Standardization Manager

For the Field of Testing

Leader of Testing Laboratories
Special Technician of Testing Laboratories
Quality Manager of Testing Laboratories

For the Field of Diagnostics

Technical Diagnostician - Tribodiagnostics
Technical Diagnostician - Vibrodiagnostics
Technical Diagnostician - Termodiagnostics
Technical Diagnostician of Assembly and Optical Measurements
Technical Diagnostician of Electrical Equipment

For the Field of Occupational Health and Safety

HSMS System Manager
HSMS System Auditor

The Management Systems Consultants

Quality Management Systems Consultant for the Field of Quality Management and/or EMS and/or HSMS
Quality Management Systems Leader Consultant for the Field of Quality Management and/or EMS and/or HSMS

For the Field of Creativity and Innovations Management

Creativity and Innovations Manager

For the Field of Human Resource Management

Human Resources Manager

For the field of medical devices

Medical Devices Management System Auditor

56 persons were newly certified and 229 persons were recertified in 2013 for these functions:

Function	Newly certified	Recertified
Quality Manager + EOQ	13	57
Quality Auditor External + EOQ	3	19
Quality Auditor of Management Systems of Medical Devices	1	5
Technician at Testing Laboratories	0	1
Head of the organization – testing laboratory	0	6
EMS Manager	2	23
EMS Auditor	2	11
Technical Diagnostician	27	71
HSMS Manager	0	13
HSMS Auditor	1	19
Human Resources Manager	0	2
Creativity and Innovation Manager	8	1
Management Systems Consultant	0	1
TOTAL	57	229

10 THE REPRESENTATION AT ACADEMIC OR EXPERT BODIES

10.1 At VŠB – Technical University Ostrava

Expert (Academic) Bodies	Representative	Membership
Scientific board FMME	Prof. Ing. J. Plura, Ph.D.	<i>member</i>
Scientific board FSE	Prof. Ing. J. Nenadál, Ph.D.	<i>member</i>
Scientific board ECF	Prof. Ing. D. Noskievičová, Ph.D.	<i>member</i>
Specialist board for doctoral study FMME	Prof. Ing. J. Plura, Ph.D. Prof. Ing. D. Noskievičová, Ph.D. Prof. Ing. J. Tošenovský, Ph.D. Prof. Ing. R. Petříková, Ph.D.	<i>chairman</i> <i>member</i> <i>member</i> <i>member</i>
Specialist board of Business Economics and Management, ECF	Prof. Ing. D. Noskievičová, Ph.D.	<i>member</i>
Board of study program Economics and Management of Industrial Systems, FMME	Prof. Ing. J. Plura, Ph.D. Prof. Ing. D. Noskievičová, Ph.D. Prof. Ing. J. Nenadál, Ph.D.	<i>member</i> <i>member</i> <i>member</i>

10.2 Beyond VŠB – Technical University of Ostrava

Expert (Academic) Bodies	Representative	Membership
SjF STU Bratislava	Prof. Ing. J. Nenadál, Ph.D.	<i>chairman of the examining board for final state exams</i>
Tomas Bata University in Zlín	Prof. Ing. R. Petříková, Ph.D.	<i>member of the field study board for PhD study member of the board for defense of theses member of the examining board for PhD state exams</i>
Universidad de Córdoba	Prof. Ing. J. Tošenovský, Ph.D.	<i>full member of the Internatioal Committee for European Doctorate</i>
Specialist board of doctoral studies in the field of study Quality of Production and study program Engineering of Production Quality at the Faculty of Metallurgy of TU in Košice, Slovakia	Prof. Ing. J. Plura, Ph.D. Prof. Ing. J. Nenadál, Ph.D.	<i>members</i>
Faculty of Biomedical Engineering CTU Prague	Prof. Ing. R. Petříková, Ph.D.	<i>member of the examining board for final state exams</i>
ERASMUS	Prof. Ing. D. Noskievičová, Ph.D.	<i>Coordinator of study visits for students of Quality Management at the University of Linköping.</i>
European Foundation for Quality Management Brusel	Prof. Ing. J. Nenadál, Ph.D.	<i>representative of VŠB-TU Ostrava</i>
Scientific FBMI ČVUT Praha	Prof. Ing. R. Petříková, Ph.D.	<i>member</i>
Quality Board of Czech Republic	Prof. Ing. R. Petříková, Ph.D.	<i>vice-chairman</i>
Expert Section of Quality Board of Czech Republic – Quality in Education	Prof. Ing. R. Petříková, Ph.D.	<i>chairman</i>
	Prof. Ing. J. Nenadál, Ph.D.	<i>vice-chairman</i>
Czech Society for Quality	Prof. Ing. J. Nenadál, Ph.D. Prof. Ing. R. Petříková, Ph.D. Prof. RNDr. J. Tošenovský, Ph.D. Prof. Ing. J. Plura, Ph.D. Doc. Ing. M. Hutýra, Ph.D.	<i>members</i>
Expert Group for Statistical Methods, Czech Quality Society	Prof. Ing. D. Noskievičová, Ph.D.	<i>member</i>
Technical Committee for Standardization No. 6 – Quality Management (Czech Institut for Standardization and Testing)	Prof. Ing. J. Nenadál, Ph.D.	<i>member</i>
Technical Committee for Standardization No. 4	Prof. Ing. D. Noskievičová, Ph.D.	<i>member</i>

Expert (Academic) Bodies	Representative	Membership
Czech Management Association	Prof. Ing. R. Petříková, Ph.D.	<i>member</i>
The Czech Union of VTS Prague	Prof. Ing. R. Petříková, Ph.D.	<i>member</i>
The International Association for Statistical Computing (IASC)	Prof. RNDr. J. Tošenovský, Ph.D.	<i>member</i>
International Conference Metal 2013, Brno	Prof. Ing. D. Noskievičová, Ph.D.	<i>Professional guarantor – symposium F: Economics and Management of Metallurgy</i>
The Certification Body ACM DTO CZ	Prof. Ing. J. Plura, Ph.D.	<i>chairman of programme committee for personal certification</i>
The Certification Body ACM DTO CZ	Prof. Ing. J. Nenadál, Ph.D. Prof. Ing. J. Plura, Ph.D. Prof. Ing. R. Petříková, Ph.D. Doc. Ing. M. Hutýra, Ph.D.	<i>members of evaluation committee</i>
The Certification Body SKQS Žilina	Prof. Ing. J. Nenadál, Ph.D.	<i>member of managing board</i>
The journal „Quality. Innovation. Prosperity“	Prof. Ing. J. Nenadál, Ph.D. Prof. Ing. J. Plura, Ph.D.	<i>members of edition board</i>
The journal „Zpravodaj ČSVTS“	Prof. Ing. R. Petříková, Ph.D.	<i>member of edition board</i>
The journal „Perspektivy jakosti“	Prof. Ing. R. Petříková, Ph.D.	<i>member of edition board</i>
The journal „Kvalita“	Prof. Ing. R. Petříková, Ph.D. Prof. Ing. R. Petříková, Ph.D.	<i>members of edition board</i>
Management Press Prague	Prof. Ing. J. Nenadál, Ph.D.	<i>member of scientific edition board</i>
VVUÚ, a.s.	Ing. D. Vykydal, Ph.D.	<i>member of the board</i>

11 THE ACTIVITIES WITHIN BOARDS FOR DEFENCE OF PHD THESIS

University	Board	PhD Student	Membership of the board
VŠB-TU Ostrava	<i>for defense Ph.D. thesis</i>	Ing. Marek Polák	Prof. Ing. J. Plura, Ph.D. – <i>chairman</i> Prof. Ing. J. Nenadál, Ph.D.– Prof. Ing. R. Petříková, Ph.D. <i>members</i>
VŠB-TU Ostrava	<i>for defense Ph.D. thesis</i>	Ing. Markéta Lajczyková	Prof. Ing. J. Plura, Ph.D. – <i>chairman</i> Prof. Ing. J. Nenadál, Ph.D. Prof. RNDr. J. Tošenovský, Ph.D. – <i>members</i>
VŠB-TU Ostrava	<i>for defense Ph.D. thesis</i>	Ing. M. Zajarošová	Prof. Ing. D. Noskievičová, Ph.D.– <i>member</i>
VŠB-TU Ostrava	<i>for defense Ph.D. thesis</i>	Ing. Libor Nečas	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>
VŠB-TU Ostrava	<i>for PhD state exams</i>	Ing. Ján Kapusniak	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>

University	Board	PhD Student	Membership of the board
VŠB-TU Ostrava	<i>for PhD state exams</i>	Ing. Petr Pospíšil	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>
VŠB-TU Ostrava	<i>for PhD state exams</i>	Ing. Andrea Kováčiková	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>
VŠB-TU Ostrava	<i>for PhD state exams</i>	Ing. Marek Gašparín	Prof. Ing. J. Plura, CSc – <i>chairman</i> Prof. Ing. Jaroslav Nenadál, Ph.D. – <i>vice-chairman</i> Prof. Ing. D. Noskiewičová, Ph.D. Prof. RNDr. J. Tošenovský, Ph.D. Doc. Ing. M. Hutýra, Ph.D. – <i>members</i>
VŠB-TU Ostrava	<i>for PhD state exams</i>	Ing. A. Čopíková	Prof. Ing. D. Noskiewičová, Ph.D.– <i>member</i>
VŠB-TU Ostrava	<i>for PhD state exams</i>	Ing. M. Hoďáková	Prof. Ing. D. Noskiewičová, Ph.D.– <i>member</i>
TU Košice	<i>for defense Ph.D. thesis</i>	Ing. Matúš Horváth	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>
TU Košice	<i>for defense Ph.D. thesis</i>	Ing. Petr Kopecký	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>
TU Košice	<i>for defense Ph.D. thesis</i>	Ing. Jana Namešanská	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>
TU Košice	<i>for defense Ph.D. thesis</i>	Ing. Michal Hovanec	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>
ŽU v Žiline	<i>for defense Ph.D. thesis</i>	Ing. Ivan Litvaj	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>
UTB Zlín	<i>for defense Ph.D. thesis</i>	Ing. Jana Brathová	Prof. Ing. R. Petříková – <i>member</i>
UTB Zlín	<i>for defense Ph.D. thesis</i>	Ing. Karel Slinták	Prof. Ing. R. Petříková – <i>member</i>

12 SPECIAL AUTHORITIES OF DEPARTMENT

12.1 The Examining Board for Final State Exams of Bachelor Study within Special Branch of Quality Management

June 2013:

Commission No. 1:

Ing. Jana Serafinová, MBA - chairman
Prof. Ing. Jiří Plura, Ph.D. - vice-chairman
Prof. Ing. Růžena Petříková, Ph.D.
Ing. Josef Smetana Ph.D., MBA
Prof. RNDr. Josef Tošenovský, Ph.D.
Ing. Alan Vápeníček, Ph.D.
Ing. Mgr. Petra Halfarová - secretary

Commission No. 2:

Ing. Michal Bohuš, Ph.D. - chairman
prof. Ing. Darja Noskievičová, Ph.D. - vice-chairman
Ing. Patrik Enge, Ph.D.
Doc. Milan Hutýra, Ph.D.
Ing. Petr Tyráček Ph.D., MBA
Ing. Pavel Klaput - secretary

Commission No. 3:

Ing. Petr Kunčický, Ph.D. - chairman
Prof. Ing. Jiří Plura, Ph.D. - vice-chairman
Prof. Ing. Růžena Petříková, Ph.D.
Prof. RNDr. Josef Tošenovský, Ph.D.
RNDr. Jindřich Vaněk Ph.D.
Ing. Mgr. Petra Halfarová, Ph.D. - secretary

Commission No. 4:

Ing. Michal Bohuš, Ph.D. - chairman
prof. Ing. Darja Noskievičová, Ph.D. - vice-chairman
Doc. Milan Hutýra, Ph.D.
Ing. Josef Smetana Ph.D., MBA
Ing. Petr Tyráček Ph.D., MBA
Ing. Pavel Klaput - secretary

September 2013:

Ing. Jana Serafinová, MBA - chairman
Prof. Ing. Jiří Plura, Ph.D. - vice-chairman
Prof. Ing. Jaroslav Nenadál, Ph.D.
Prof. Ing. Darja Noskievičová, Ph.D.
Prof. Ing. Růžena Petříková, Ph.D.
Prof. RNDr. Josef Tošenovský, Ph.D.
Ing. David Vykydal, Ph.D. - secretary

12.2 The Examining Board for Final State Exams of Master Study within Special Branch of Quality Management

May 2013:

Commission No. 1:

Ing. Jana Serafinová, MBA - chairman
Prof. Ing. Jiří Plura, Ph.D. - vice-chairman
Ing. Patrik Enge, Ph.D.
Prof. Ing. Jaroslav Nenadál, Ph.D.
Prof. Ing. Růžena Petříková, Ph.D.
Ing. Jaroslav Schwarz
Prof. RNDr. Josef Tošenovský, Ph.D.
Ing. Mgr. Petra Halfarová, Ph.D. - secretary

Commission No. 2:

Ing. Sylva Kazárová - chairman
Prof. Ing. Jiří Plura, Ph.D. - vice-chairman
Doc. Milan Hutýra, Ph.D.
Prof. Ing. Jaroslav Nenadál, Ph.D.
Prof. Ing. Růžena Petříková, Ph.D.
Ing. Jaroslav Schwarz
Prof. RNDr. Josef Tošenovský, Ph.D.
Ing. Mgr. Petra Halfarová, Ph.D. - secretary

Commission No. 3:

Ing. Petr Kunčický, Ph.D. - chairman
Doc. Milan Hutýra, Ph.D. - vice-chairman
Prof. Ing. Darja Noskievičová, Ph.D.
Ing. Jaroslav Schwarz
Prof. RNDr. Josef Tošenovský, Ph.D.
Ing. Pavel Klaput - secretary

September 2013:

Ing. Petr Kunčický, Ph.D.	- chairman
Prof. Ing. Jaroslav Nenadál, Ph.D.	- vice-chairman
Prof. Ing. Darja Noskievičová, Ph.D.	
Prof. Ing. Růžena Petříková, Ph.D.	
Prof. Ing. Jiří Plura, Ph.D.	
Prof. RNDr. Josef Tošenovský, Ph.D.	
Ing. David Vykydal, Ph.D.	- secretary

The Department of Quality Management

Faculty of Metallurgy and Materials Engineering VŠB – TU Ostrava

Offer of Cooperation:

- In the frame of special cooperation with organizations we offer assistance, participation on common projects and special cooperation in all areas of quality management, especially with:
- implementation of quality management systems in accordance to the EN ISO 9000 family of standards,
- application of the EFQM Excellence Model,
- self-assessment of organizations,
- implementation of training programs per order,
- implementation of modern statistical methods,
- process capability analysis, machine capability analysis and measurement system analysis,
- application of quality planning and quality improvement methods incl. FMEA, QFD, DOE,
- analysis of the quality related costs,
- implementation of customer satisfaction and loyalty measurement methodology,
- implementation of quality management processes performance measurement,
- realization of common improvement projects etc.

Contact us!

Tel.: 0420/596 994 214, 0420/596 994 500

E-mail: jiri.plura@vsb.cz

Address:

Department of Quality Management, FMME
Tř. 17. listopadu 15
VŠB-Technical University of Ostrava
708 33 Ostrava - Poruba



<http://katedry.fmmi.vsb.cz/639/>