

# DEPARTMENT OF QUALITY MANAGEMENT

Faculty of Metallurgy and Materials Engineering

VŠB – Technical University of Ostrava



## 2011 – The Annual Activities Review



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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 in 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
<b>Jiří Plura, Prof. Ing., Ph.D.</b> (The Head of Department) jiri.plura@vsb.cz	597 324 500	Quality Planning Methods and Tools of Quality Management Computer Aided Quality Management Data Management
<b>Jaroslav Nenadál, Prof. Ing., Ph.D.</b> (Vice-Head of Department) jaroslav.nenadal@vsb.cz	597 324 217	Quality Management Systems Quality Economics Total Quality Management
<b>Josef Tošenovský, Prof. RNDr., Ph.D.</b> josef.tosenovsky@vsb.cz	597 324 178	Probability and Mathematical Statistics Design of Experiments Econometrics
<b>Růžena Petříková, Prof. Ing., Ph.D.</b> ruzena.petrikova@vsb.cz	597 324 458 597 324 211	Quality and Human Factor Quality Management Integrated Management Knowledge Management
<b>Darja Noskievičová, Prof. Ing., Ph.D.</b> (Department Secretary) darja.noskievicova@vsb.cz	597 324 503	Statistical Process Control Tools of Quality Management Acceptance Sampling Process Management
<b>Milan Hutýra, Doc. Ing., Ph.D.</b> milan.hutyra@vsb.cz	597 323 714	Quality Management Systems
<b>Petra Halfarová, Ing. Mgr. Ph.D.</b> petra.halfarova@vsb.cz	597 326 352	Probability and Mathematical Statistics Econometrics Change Management
<b>David Vykydal, Ing. Ph.D.</b> david.vykydal@vsb.cz	597 326 320	Quality Management Systems Methods and Tools of Quality Management Application of Statistical Tools in Quality Management Statistical Process Control
<b>Šárka Janků, Ing. Ph.D.</b> 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 Ph.D study is possible to study within study program „Industrial Systems Management”.

### 2.1 The Review of Education Activities at Fulltime and Extramatural 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.
FMME	3.	BF	Quality and Human Factor (4-2)	Prof. Ing. R. Petříková, 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	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.
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



<b>Faculty</b>	<b>Year</b>	<b>Kind of Study</b>	<b>Subject</b> (hours per week)	<b>Lecturer</b>
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.
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	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.
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.
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

Faculty	Year	Kind of Study	Subject (hours per week)	Lecturer
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)	Prof. Ing. J. Nenadál, Ph.D. 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)	Prof. Ing. J. Nenadál, Ph.D. 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.
FSE	1.	MF	Total Quality Management (2-2)	Prof. Ing. J. Nenadál, Ph.D.
FSE	1.	ME	Total Quality Management (14-0)	Prof. Ing. J. Nenadál, Ph.D.
FSE	3.	BF	Quality Management (2-2)	Doc. Ing. M. Hutýra, Ph.D.
FSE	3.	BE	Quality Management (14-0)	Doc. Ing. M. Hutýra, 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	3.	BF	Quality Management Systems I. (2-2)	Prof. Ing. J. Nenadál, Ph.D.
FMG	2	MF	Quality Management Systems II. (2-2)	Prof. Ing. J. Nenadál, Ph.D.
FMG	3.	BE	Quality Management Systems I. (12-0)	Prof. Ing. J. Nenadál, 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.
FMG	2.	ME	Quality Management Systems II (12-0)	Prof. Ing. J. Nenadál, 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

**FME** – Faculty of Mechanical Engineering

## 2.2 The defended bachelor thesis within bachelor study Quality Management

Graduate	Bachelor Thesis	Supervisor
Bernátková Věra	Analysis of Nonconforming Products using Quality Management Tools.	Ing. Mgr. P. Halfarová
Cedivoda René	Process Capability Assessment of Ship Plates Production in Relation to Mechanical Properties.	Prof. RNDr. J. Tošenovský, Ph.D.
Čečotka David	Capability Analysis of Rails Production Process.	Ing. D. Vykydal, Ph.D.
Dlouhopolský Daniel	Optimizing of Metrology Procedures.	Doc. Ing. M. Hutýra, Ph.D.
Dudová Kamila	The Development of Approaches to Evaluation and Selection of Suppliers.	Prof. Ing. J. Nenadál, Ph.D.
Fedasová Alexandra	The Possibilities of Seven New Quality Management Tools Use in the Organization Providing Metrology Services.	Prof. Ing. J. Plura, Ph.D.
Fromelius David	Application of a process Approach for Core Processes.	Ing. Bc. M. Kelblerová
Garba David	Comprehensibility of Reference Books as a Consumer Satisfaction Factor.	Prof. RNDr. J. Tošenovský, Ph.D.
Heisigová Petra	Analysis and evaluation of disagreements during the initial inspection.	Ing. D. Vykydal, Ph.D.
Hrabina Adam	Possibilities of Improvement of Nonconforming Product Control Process.	Ing. Mgr. P. Halfarová
John Vítězslav	Application of Selected Quality Management Tools for Scheduling Production.	Ing. Bc. M. Kelblerová
Konvička Luboš	Analysis of Claims with an Emphasis on Economic Assessment.	Ing. Bc. M. Kelblerová
Lička Jiří	The Analysis of Internal Quality Audits Realization as Purchased Service.	Prof. Ing. J. Nenadál, Ph.D.
Malina Čestmír	The Analysis of Internal and Customer Audits at Continental Company.	Prof. Ing. J. Nenadál, Ph.D.
Mičanová Markéta	Possibilities of Using Methods of Quality Planning and Quality Improvement in the Organization.	Ing. D. Vykydal, Ph.D.
Mlčoušková Daniela	Employees Satisfaction Measurement in Metallurgical Company.	Ing. Mgr. P. Halfarová
Mlýnková Lenka	An Analysis of Poka-Yoke Application in Specific Company.	Prof. Ing. D. Noskovičová, Ph.D.
Monsportová Lenka	The Application of Statistic Methods in Determination of Volume of Amonia in Water .	Prof. RNDr. J. Tošenovský, Ph.D.
Mrozková Natálie	The Analysis of Quality Related Costs at Large Industrial Company.	Prof. Ing. J. Nenadál, Ph.D.
Mužiková Lenka	Process Capability Analysis in the Organization of the Eletrical Industry.	Ing. P. Klaput
Novák Zbyněk	Analysis of Nonconforming Products Control Process and Nonconformity Records	Ing. Bc. M. Kelblerová

<b>Graduate</b>	<b>Bachelor Thesis</b>	<b>Supervisor</b>
Obergruberová Soňa, Ing.	Self-assessment of Organization Providing Services in the Field of Occupational and Living Environment.	Ing. M. Kohoutová
Pátková Pavlína	The Analysis of Internal Auditing Suitability and Efficiency within Integrated Management System.	Prof. Ing. R. Petříková, Ph.D.
Petrošová Lenka	Implementation of KAIZEN at Selected Heavy Machinery Organisation.	Doc. Ing. M. Hutýra, Ph.D.
Prokopová Veronika	Analysis of Present State of Quality Management at the Organization and its Updating According to ČSN EN ISO 9001:2008.	Ing. Bc. M. Kelblerová
Sedláčková Gabriela	Measurement of Education and Training Effectiveness.	Ing. Mgr. P. Halfarová
Sedláčková Kateřina	Measurement of University Graduates Satisfaction.	Ing. Mgr. P. Halfarová
Slavinská Kateřina, Ing.	The Use of FMEA for Improvement of Hoses Production Process.	Prof. Ing. J. Plura, Ph.D.
Sotolářová Jitka	Analysis of Quality Planning Approach and Proposal of Improvements.	Ing. D. Vykydal, Ph.D.
Špaldoňová Markéta	Analysis of SPC System in Condition of Producer for Automotive Industry.	Prof. RNDr. J. Tošenovský, Ph.D.
Štorkán Michal	Analysis of the Basic Requirements of Quality Management System.	Ing. Bc. M. Kelblerová
Tesařová Lucie	Measurement of Education and Training Effectiveness.	Ing. Mgr. P. Halfarová

### 2.3 The defended diploma thesis within engineering study Quality Management

<b>Graduate</b>	<b>Diploma Thesis</b>	<b>Supervisor</b>
Barabášová Věra, Bc.	Six Sigma Project Application with zero Rework Concept.	Prof. RNDr. J. Tošenovský, Ph.D.
Beranová Milona, Bc.	Analysis and Improvement of Internal Audits and Supplier Audits.	Ing. Bc. M. Kelblerová
Bilíková Jarmila, Bc.	The Analysis of Product Audit Procedure at Automotive Supplier Organisation.	Doc. Ing. M. Hutýra, Ph.D.
Bláha Vít, Bc.	Application of the FMEA Process in the Production of Pipelines and Membrane Walls.	Ing. D. Vykydal, Ph.D.
Děckuláčková Ludmila, Bc.	Analysis of the Causes of Clims Focused on the Repeated Ones.	Ing. Bc. M. Kelblerová
Dezortová Barbora, Bc.	Modern Approaches to Product Quality Planning.	Prof. Ing. J. Plura, Ph.D.
Dluhošová Lucie, Bc.	Proposal of Management Principles of Outsourcing Processes in the Metallurgical Company .	Ing. D. Vykydal, Ph.D.

<b>Graduate</b>	<b>Diploma Thesis</b>	<b>Supervisor</b>
Fridrich Jan, Bc.*	Comparative Analysis of Statistical Process Control Methods for Autocorrelated Data.	Prof. Ing. D. Noskiewiřová, Ph.D.
Gálik Petr, Ing. Bc.	Possibilities to Improve of Process Managing Customer Claims.	Ing. Mgr. P. Halfarová
Hajdová Radka, Bc.	Application of Six Sigma in the Selected Section of an Industrial Enterprise.	Prof. RNDr. J. Tošenovský, Ph.D.
Kawulok Aleš, Bc.	Design of Statistical Control Implementation on Hinge Hood Riveting Process .	Prof. Ing. D. Noskiewiřová, Ph.D.
Klimešová Elen, Bc.	Using of Design of Experiments (DOE) for Optimization of Analytical Method in Water Laboratory.	Prof. RNDr. J. Tošenovský, Ph.D.
Kovářová Markéta, Ing.	The Proposal of Methodology for Quality Costing at Large Metallurgical Company.	Prof. Ing. J. Nenadál, Ph.D.
Králová Marie, Bc.	Creating a Methodology for Practical Using the Multivariate Loss Function.	Prof. RNDr. J. Tošenovský, Ph.D.
Lukařková Hana, Bc.	Factors Affecting Process Capability Analysis Results.	Prof. Ing. J. Plura, Ph.D.
Machút Martin, Bc.	The Innovation of Approach to the Evaluation and Selection of Suppliers.	Prof. Ing. J. Nenadál, Ph.D.
Mlýnková Simona, Bc.	Analysis of the Causes of Defects and their Prevention in the Purchased.	Ing. Mgr. P. Halfarová
Nytrvá Martina, Bc.	Increasing of Selling Efficiency of Company's Products.	Doc. Ing. M. Hutýra, Ph.D.
Pauchová Anna, Bc.	Analysis of Selected Factors Influencing the Application of Statistical Process Control .	Ing. Bc. M. Kelblerová
Polák Jiří, Bc.	Design of Risk Management Implementation in PILSEN STEEL s.r.o.	Prof. Ing. R. Petřiková, Ph.D.
Sikorová Klára, Bc.	Application of Production Part Approval Process at Selected Supplier.	Prof. Ing. J. Plura, Ph.D.
Suchánková Kateřina, Bc.	The Development and Application of Customer Value Analysis at Technical Systems.	Prof. Ing. J. Nenadál, Ph.D.
Šabršula Marek, Bc.	Possibilities of Economic Benefits Measurement from FMEA Application.	Ing. D. Vykydal, Ph.D.
Škulavíková Jana, Dis. Bc.	Application of FMEA at Trucks Production.	Prof. Ing. J. Plura, Ph.D.
Šlosárková Vendula, Bc.	Design of Procedure for Determining the Cost in Statistical Process Control.	Ing. Mgr. P. Halfarová
Trávníček Radim, Bc.	Design of On-line System for Production Quality Monitoring.	Prof. Ing. J. Plura, Ph.D.
Valouchová Lucie, Bc.	Design of Integrated Management System in Company Practice.	Prof. Ing. R. Petřiková, Ph.D.
Vařica Ivo, Bc.	The Implementation of Process Costing at Manufacturing Process and Following Analysis.	Prof. Ing. J. Nenadál, Ph.D.

<b>Graduate</b>	<b>Diploma Thesis</b>	<b>Supervisor</b>
Vyležiková Jana, Bc.	Analysis and Proposal of Methodology for Evaluating the Performance of Hot-rolled Flat Products Manufacturing.	Ing. D. Vykydal, Ph.D.
Woska Bogdan, Bc.	Design of Statistical Control Implementation on Bar Rolling Process.	Prof. Ing. D. Noskiewičová, Ph.D.

\* Presentation of results of the thesis by J. Fridrich was awarded on the Student Research Conference held by the Faculty of Metallurgy, Technical University of Košice.

## 2.4 PhD Study

<b>PhD Student</b> (Full-time study/ Combined study)	<b>Accepted from</b>	<b>Topic of Thesis</b>	<b>Supervisor</b>
Ing. Martin Folta*  <i>Combined study</i>	1.10.2000	The Development of Quality Improvement Methodology and its Introducing in Practice.	Prof. Ing. J. Plura, Ph.D.
Ing. Mgr. Petra Halfarová  <i>Combined study</i>	1.10.2003	Economic Aspects of Quality Management Tools Selection.	Prof. RNDr. J. Tošenovský, Ph.D.
Ing. Lukáš Mildorf*  <i>Combined study</i>	1.10.2003	Proposal and Implementation of Modern Approaches to the Performance Increase of the Selected Products Assembly Process.	Prof. Ing. D. Noskiewičová, Ph.D.
Ing. Lubomír Lengyel  <i>Combined study</i>	1.10.2004	The Modeling and Simulation within Quality Management.	Prof. Ing. K. Zgodavová, Ph.D.
Ing. Czesław Kura, MBA*  <i>Combined study</i>	1.10.2004	The Key Processes of Human Resources Management and their Continuous Improvement in Change Environment.	Prof. Ing. R. Petříková, Ph.D.
Ing. Martin Kotásek  <i>Combined study</i>	1.10.2006	The Excellence Principles Implementation at Machinery Organizations.	Prof. Ing. J. Nenadál, Ph.D.
Ing. Renata Przewczková  <i>Combined study</i>	1.10.2006	The Use of Quantitative Methods for Individual and Workplace Scientific Level Evaluations.	Prof. RNDr. J. Tošenovský, Ph.D.
Ing. Jiří Wolgemuth  <i>Combined study</i>	1.10.2006	The Development of Processes Quality Planning Approaches and their Capability Studies.	Prof. Ing. J. Plura, 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.

<b>PhD Student</b> (Full-time study/Combined study)	<b>Accepted from</b>	<b>Topic of Thesis</b>	<b>Supervisor</b>
Ing. Marek Polák <i>Combined study</i>	1.10.2007	The Baa'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.
Ing. Petr Tyráček, MBA* <i>Combined study</i>	1.10.2008	The Organization Dynamic Balance Control through Innovations.	Doc. Ing. Milan Hutýra, Ph.D.
Dipl. Ing. Ralf Hostein <i>Combined study</i>	1.7.2008	Requirements profile for uniform European Materials Tester (NDT).	Prof. Ing. J. Nenádál, 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>Full-time study /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>kombinovaná</i>	1.10.2009	The Problematic of Quality Management Implementation in the Czech School.	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. Robert Zvoníček <i>Combined study</i>	1.10.2010	Advanced Approaches to Products Quality Planning.	Prof. Ing. J. Plura, 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.

<b>PhD Student</b> (Full-time study/Combined study)	<b>Accepted from</b>	<b>Topic of Thesis</b>	<b>Supervisor</b>
Ing. Milan Zemek <i>Full-time study</i>	1.10.2011	Possibilities of Process Capability Analysis in Non-standard Situations	Prof. Ing. J. Plura, Ph.D.

\* *The Dissertation Thesis was defended successfully in 2011.*

## 2.5 Study stay of students in the frame of ERASMUS

Participants in study stays in the frame of ERASMUS.

<b>Place</b>	<b>Student Name</b>	<b>Type of Study</b>	<b>Semester</b>	<b>Length of Stay</b>	<b>Academic Year</b>
Univerzity of Linköping, Sweden	Bc. Petr Blaha	<i>master</i>	W, S	10 months	10/11
Univerzity of Linköping, Sweden	Bc. Martina Vrbová	<i>master</i>	W, S	10 months	10/11

## 3 THE RESEARCH ACTIVITIES AND GRANTS

### 3.1 Internal grant project of FMME:

**Project title:** Advanced Methods of Quality Management

**Duration:** 2011

**Responsible person:** Prof. Ing. Jiří Plura, Ph.D.

**The staff included:** Prof. Ing. Jaroslav Nenadál, Ph.D., Prof. Ing. Darja Noskíevičová, Ph.D., Ing. David Vykydal, Ph.D., Ing. Mgr. Petra Halfarová, Ing. Bc. Michaela Kelblerová, Ing. Pavel Klaput, Bc. Iva Šedlbauerová, Bc. Petr Škařupa, Bc. Ivo Kocián, Bc. Markéta Novosadová

**The project goal and outputs:** The project was focused on benchmarking of approach to evaluating the quality of education at technical universities, unconventional approaches to the application of selected methods and tools of quality planning and improvement, analysis of factors influencing the results of the process capability evaluation, development of access to test data normality and detection of special causes in control charts.

### 3.2 Internal grant project of FMME:

**Project title:** Modern Approaches and Tools of Industrial Systems Management

**Duration:** 2011

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

**The staff included:** Prof. Ing. Jiří Plura, Ph.D., Prof. RNDr. Josef Tošenovský, Ph.D.,



Prof. Ing. Darja Noskievičová, Ph.D., Ing. Pavel Klaput, Ing. Bc. Michaela Kelblerová, Ing. Milan Zemek, Ing. Martina Kohoutová, Bc. Lenka Monsportová

**The project goal and outputs:**

The project was focused on the development of modern approaches and tools of industrial enterprises management, industrial automation systems and quality management. In the field of quality management attention was paid to the development of approaches to measurement systems analysis, creating of models of complex and effective application of statistical process control and applications of fuzzy approach and expert systems.

**3.3 Research Plan MSM 6198910019:**

**Project title:** Reduction of CO<sub>2</sub> Production – DECO<sub>x</sub> Processes

**Duration:** 2005 – 2011

**Responsible person:** Prof. Ing. Václav Roubíček, Ph.D., Dr.h.c.

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

**The project goal and outputs:** Reduction of CO<sub>2</sub> emissions especially in relation to its influence on environment was the main goal of this project. Development and proposal of methodology for exploitation of primary energy sources and technologies, treating of by-products including were realized.

**3.4 Research Plan MSM 6198910015:**

**Project title:** Structural Potentiality and Properties of Intensively Formed Materials.

**Duration:** 2005 – 2011

**Responsible person:** Prof. Ing. Ivo Schindler, Ph.D.

**The staff included:** Prof. Ing. Jiří Plura, Ph.D.

**The project goal and outputs:** The subject of research activities in the framework of the supposed research plan was study of deformation behavior, structure forming processes and resulting properties of metallic materials in conjunction with advanced methods of their 3D-forming.

**3.5 The development project of the Ministry of Education, Youth and Sport of Czech Republic and European Social Fund No. CZ.1.07/2.2.00/07.0339**

**Project title:** Personalization of Teaching by Means of E-learning.

**Duration:** Ma 2009 – April 2012

**Responsible person:** Doc. RNDr. J. Šarmanová, Ph.D.

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

**The project goal and outputs:** The improvement of university textbooks for 61 technical subjects within the framework of 20 study programs of 3 VŠB-Technical University faculties is the main project objective. The new e-textbooks will be processed with using e-learning methods supplemented by multimedia elements and automatic testing.

### **3.6 Project of Fund for Higher Education Development No. 2658/2011:**

**Project title:** The Innovation of Teaching Subject Computer Aided Quality Management II

**Duration:** 2011

**Responsible person:** Prof. Ing. Jiří Plura, Ph.D.

**The staff included:** Ing. Pavel Klaput

**The project goal and outputs:** The main objective of this project was innovation of teaching subject Computer Aided Quality Management II, which is included in master study programme of Quality management branch of study. Contents of lectures and exercises were innovated, 35 licenses of Minitab 16 were purchased and textbook have been prepared to support teaching. Textbook and software will also be used to teaching other courses in the Quality Management branch of study (Quality Planning II, Special Statistical Methods, Econometrics, Design of Experiments), in the teaching provided by the Department of Quality Management for other branches of study at the Technical University of Ostrava and in the solution of bachelor, master and doctoral theses.

### **3.7 The research and development project of the Ministry of Education, Youth and Sports of Czech Republic No. 1M06047:**

**Project title:** The Center of Quality and Reliability (CQR).

**Duration:** 2006 – 2011

**Responsible person:** Doc. Ing. Radim Briš, Ph.D.

**The staff included:** Doc. Ing. Milan Hutýra, Ph.D., Ing. Mgr. Petra Halfarová

**The project goal and outputs:** The aim of Quality and Reliability Centre (CQR) was development of methods for quality improvement, diagnostic and increasing reliability of products and processes regarding to their application and development of complex analytics method leading the increasing of company competitiveness.

### **3.8 The development project of the Ministry of Education, Youth and Sport of Czech Republic No.19/1/2011**

**Project title:** The Maintenance of Quality Management System Certificate ISO 9001 and Implementation Self-assessment Using the EFQM Excellence Model VŠB-TU Ostrava.

**Duration:** 2011  
**Responsible person:** Doc. Ing. Milan Hutyra, Ph.D.  
**The project goal and outputs:** Successful completion of the audit control and maintenance of quality management system certificate ISO 9001. Preparation of self-assessment reports by the EFQM Excellence Model and participation in the National Quality Award.

### **3.9 IPN Quality reg. no. CZ.1.07/4.1.00/22.0001**

**Project title:** Quality Assurance and Quality Assessment in the Tertiary Education System.  
**Duration:** 2010 - 2013  
**Responsible person:** MŠMT.  
**The staff included:** Doc. Ing. Milan Hutyra, CSc, prof. Ing. Jaroslav Nenadál, CSc, prof. Ing. Růžena Petříková, CSc, Ing. David Vykydal, PhD  
**The project goal and outputs:** 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.

### **3.10 Program MSK 01723/2011/RRC**

**Project title:** Programme MSK Support of Science and research in the Moravian-Silesian District.  
**Duration:** March 2011 – November 2011  
**Responsible person:** Prof. Ing. Darja Noskievičová, Ph.D.  
**The staff included:** Prof. Ing. Jiří Plura, Ph.D., Ing. Mgr. Petra Halfarová, Doc. Ing. Milan Hutyra, Ph.D., Ing. Pavel Klaput  
**The project goal and outputs:** In the frame of this project the stint of the foreign expert, Ass. Prof. Mattias Elg from Division of Quality Technology and Management, Dept. Management and Engineering at the Univerzity of Linköping, Sweden was prepared and realized (21.-25.11.2011) with the aim to develop research co-operation between division mentioned above and Department of Quality Management, VŠB-TUO. The parts of this stay there were visits in CPIT and PI at VŠB-TUO and lectures at VŠB-TUO and DT Ostrava.

#### 4 THE SPECIAL EVENTS ORGANIZED BY THE DEPARTMENT

Event name	Type of events	Date	Action chair	Venue	Number of participants
Kvalita – Quality 2011	International conference	17. - 18. 5. 2011	R. Petříková, Prof. Ing. Ph.D. J. Nenadál, Prof. Ing. Ph.D.	Ostrava	170
Special meeting of higher Schools Representatives Engaged in Education for Quality.	Seminar	16. 5. 2011	J. Nenadál, Prof. Ing. Ph.D.	Ostrava	23
Field trip for students of the quality management study field	Field trip	8. 4. 2011	D. Noskievičová, Prof. Ing. Ph.D.	Hayes Lemmerz Autokola Ostrava-Kunčice	19
Field trip for students of the quality management study field	Field trip	23. 4. 2011	D. Noskievičová, Prof. Ing. Ph.D.	Brose CZ Kopřivnice	16
Field trip for students of the quality management study field	Field trip	5. 5. 2011	D. Noskievičová, Prof. Ing. Ph.D.	Hyundai Motor Manufacturing Czech, Nošovice	20
Variation Management and Improvement.	Specialized lecture	22. 11. 2011	Ass. Prof. M. Elg, Univerzity of Linköping, Sweden	VŠB – TU Ostrava	59

#### 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
J. Fridrich, Ing.	Metallurgija 2011	Student Research Conference	Faculty of Metallurgy, TU Košice, Slovakia	19.4.2011	Comparative Analysis of the SPC Methods for the Autocorrelative Data.
M. Hutýra, Doc. Ing. Ph.D.	55th EOQ Congress – Quality	International congress	Budapest (Hungary)	20. - 23. 6. 2011	Self Assessment according to EFQM Excellence Model as the Tool for Evaluation of University.

Name	Event name	Type of event	Venue	Date	The lecture's title
P. Klaput, Ing.	QMOD Conference on Quality and Service Sciences 2011	International conference	San Sebastian, (Spain)	29.-31.8. 2011	The Importance of Graphical Tools for Measurement Systems Analysis.
J. Nenadál, Prof. Ing. Ph.D.	Innovations, Planning and Quality at Social Service	International conference	Ružomberok (SR)	5.5.2011	Benchmarking at social service.
J. Plura, Prof. Ing. Ph.D.	QMOD Conference on Quality and Service Sciences 2011	International conference	San Sebastian, (Spain)	29.-31.8. 2011	Chairman of the professional section „Organizational and Regional Development“.
J. Tošenovský, Prof. RNDr. Ph.D.	Erasmus	Specialized lecture	Universidad de Cádiz, (Spain)	5.-19.3. 2011	Economic design of the specification region for multiple characteristic.
J. Tošenovský, Prof. RNDr. Ph.D.	Erasmus	Specialized lecture	Universidad Miguel Hernandez de Elche, (Spain)	9.-16.10. 2011	Multidimensional Taguchi methods. No verbal communication

## 5.2 Inland

Name	Event name	Type of event	Venue	Date	The lecture's title
J. Fridrich, Ing.	Student Seminar of Professional Activities STOČ Ostrava 2011	STOČ	Ostrava	5.5.2011	Comparative Analysis of the SPC methods for the Autocorrelative Data.
P. Halfarová, Ing. Mgr.	Kvalita – Quality 2011	International conference	Ostrava	17. - 18. 5. 2011	Economic Aspect of Selected Quality Management Tools.
M. Kelblerová, Ing. Bc.	Kvalita – Quality 2011	International conference	Ostrava	17. - 18. 5. 2011	Why are not the Companies Successful in the Application of SPC?
P. Klaput, Ing.	International Baťa Conference for Ph.D. Students and Young Researchers.	International conference	Zlín	12. 4. 2010	The Importance of Graphical Tools for Measurement Systems Analysis

Name	Event name	Type of event	Venue	Date	The lecture's title
P. Klaput, Ing.	METAL 2011	International conference	Brno	18 – 20.5 2011	The Possibilities of Confidence Improvement of Measurement Systems Analyses Results.
	Internal PhD Day 2011 - FMME	Seminar	Ostrava	6. 12. 2011	Evaluation of the Acceptability of Measurement System for Special Quality Characteristics.
M. Kohoutová, Ing.	Kvalita – Quality 2011	International conference	Ostrava	17. - 18. 5. 2011	Use Fuzzy Logic Control for Process.
J. Nenadál, Prof. Ing. Ph.D.	Integrated Management Systems	Course	Ostrava	12. - 14. 1. 2011	Leading the course.
	Risks at company processes	Conference	Ústí nad Labem	22. 9. 2011	Risks related to the process approach implementation at industrial practice.
	Quality Month – November 2011	Seminar	Ostrava	23. 11. 2010	How to approach to customer loyalty assessment and measurement?
D. Noskiewičová, Prof. Ing. Ph.D.	Kvalita – Quality 2011	International conference	Ostrava	17. - 18. 5. 2011	SPC Methods when Distributions Parameters are Nonconstant.
	Metal 2011	International conference	Brno	19. 5. 2011	Selected Applications of Statistical Process Control in Metallurgy
R. Petřiková, Prof. Ing. Ph.D.	Corporate Social Responsibility – Added Value for Praxis	Conference	Ostrava	13.4.2011	Why CSR?
	Kvalita – Quality 2011	International conference	Ostrava	17. - 18. 5. 2011	Change of Company Culture begins trough Education.
	European Week of Quality	International conference	Praha	3. – 4. 11. 2011	Sharing Values - the Basis of the Concept of Social Welfare Organizations.

Name	Event name	Type of event	Venue	Date	The lecture's title
R. Petříková, Prof. Ing. Ph.D.	Corporate Social Responsibility - the Transfer of Scientific Knowledge into Practice.	Conference	Olomouc	17.2.2011	Responsible and Clever Firms – Base of a Responsible and Clever State.
	Social Enterprise as Method of Thinking and Creativity	Meeting	Ostrava	25.3.2011	Project of Social Responsibility
	Human Resource Manager	Course	Ostrava	October 2011	Meaning of HRM in the Company Process.
	IMS Manager	Course	Ostrava	October 2011	Human Resources in IMS.
	Quality Month – November 2011	Seminar	Ostrava	23. 11. 2011	CSR and CSV - together and Responsible for Next Generations.
	Manager school of Bata's	Course	Zlín	17.6.2011	SŘB – Inspiration for Present Praxis.
J. Plura, Prof. Ing. Ph.D.	Quality Month – November 2011	Seminar	Ostrava	23. 11. 2011	Graphical Tools of GRR Study.
J. Tošenovský, Prof. RNDr. Ph.D.	Kvalita – Quality 2011	International conference	Ostrava	17. - 18. 5. 2011	Multivariate Loss Function for Quality Process Management.
M. Zemek, Ing.	Internal PhD Day 2011 - FMME	Seminar	Ostrava	6. 12. 2011	Process Capability Analysis in Non-Standard Situations.

## 6 THE PUBLICATIONS

### 6.1 Books

**NENADÁL, J., VYKYDAL, D., HALFAROVÁ, P.:** Benchmarking – Myths and Reality. Model of Effective Learning and Improvement. Praha: Management Press, 2011, 265 p. ISBN 978-80-7261-224-6

**CIENCIALA, J., PETŘÍKOVÁ, R., NENADÁL, J., ZAPLETALOVÁ, L** Process – Driven Organization, Creation, Development and Measurability of Processes. Prague: Professional Publishing, 2011, 204 p. ISBN 978-80-7431-044-7

## 6.2 Journals' Articles

**NENADÁL, J.:** Certification of persons as a tool of people competence within occupational and health management system. [In Czech]. *SPEKTRUM*. Ostrava: SPBI, 2011, Vol. 11, n. 1, p. 26-29. ISSN 1211-6920

**NENADÁL, J., VYKYDAL, D.:** Some Problems Related to Quality Assessment of Czech Higher Education Institutions. [In Czech]. *Auspicia*. České Budějovice: 2011, Vol. 2, p. 168 – 171. ISSN 1214-4967

**NOSKIEVIČOVÁ, D., BRODECKÁ, K.:** Statistical Process Control for Lean Six Sigma. [In Czech]. *Automa*, No. 6, 2011, pp. 49-53. ISSN 1210-9592

**PETŘÍKOVÁ, R.:** Corporate Social Responsibility (CSR) and Concept of Creating Shared Value (CSV). [In Czech]. In: *Kvalita pro život*. Ostrava: DTO CZ, s. r. o., 2011, Vol. 12, n. 2, 7 p. ISSN 1803-9138

**LEGERSKI, M., PLURA, J., SHINDLER, I., RUSZ, S., KAWULOK, P., KULVEITOVÁ, H., HADASIK, E., KUC, D., NIEWIELSKI, G.:** Complex flow stress model for a magnesium alloy AZ31 at hot forming. *High Temperature Materials and Processes*. de Gruyter 2011, Vol. 30, No. 1-2, p. 63-69. ISSN 0334-6455

**SHINDLER, I., M., PLURA, J., RUSZ, S., KAWULOK, P., VAŠEK, Z., PACHLOPNÍK, R.:** New Model of Hot Mean Flow Stress of the C-Mn-Nb-V Microalloyed Steel. *Hutnické listy*. Ostrava: OCELOT s.r.o., 2011, Vol. 64, n. 4, ISSN 0018-8069

**PLURA, J.:** The Use of Quality Planning methods at Forging Process Optimisation. *Kovárenství*. Brno: Svaz kováren ČR o. s., 2011, Vol. 2011, No. 39, p. 35-40. ISSN 1213-9289

**PLURA, J., KLAPUT, P., VYKYDAL, D.:** The Most Frequent Mistakes at Process Capability Analyses. *Hutnické listy*. Ostrava: OCELOT s.r.o., 2011, Vol. 64, n. 6, p. 126-130. ISSN 0018-8069

**TOŠENOVSKÝ, J., BILÍK, J.:** Development and the Use of Technological Maps in the Iron Metallurgy. *Hutnické listy*. Ostrava: OCELOT s.r.o., 2011, Vol. LXIV, n. 1, p. 67-70. ISSN 0018-8069

**TOŠENOVSKÝ, J., KRČEK, B., MONSPORTOVÁ, L., TOŠENOVSKÝ, F.:** Application of Fuzzy Sets in an Expert System For Technological Process Management. [In Czech]. *Kvalita Inovácia Prosperita*. Košice: TU Košice, 2011, Vol. 15, n. 2, p. 1-8. ISSN 1335-1745

**KLIMEŠOVÁ, E., TOŠENOVSKÝ, J.:** Use of the Design of Experiment for Optimization of an Analytical Method which Determines Adsorbable Organically Bound Halogens by Coulometric Titration. [In Czech]. *CHEMagazín*. Pardubice: CHEMAGAZÍN s.r.o., 2011, Vol. XII, n. 6, p. 6-8 ISSN 1210-7409

## 6.3 Proceeding's Articles from Scientific Conference

**HALFAROVÁ, P.:** Economic Aspect of Selected Quality Management Tools. [In Czech]. In: *Proceedings of Conference Kvalita - Quality 2011*. Ostrava: DTO CZ, s. r. o., 2011, 6 p. "G50"- "G55" ISBN 978-80-02-02322-7

**FABÍK, R., HALFAROVÁ, P.:** Impact of Drawing Process Parameters of Uniformity of



Strain in Spring Wire. In: *Proceedings of 20th Anniversary International Conference on Metallurgy and Materials: METAL 2011*. Ostrava: Tanger s.r.o., 2011, p. 234-240 ISBN 978-80-87294-24-6

**KUBINA, T., BOŘUTA, J., HALFAROVÁ, P.:** Comparison of Various Ways of Processing Results from Hot Torsion Tests. In: *Proceedings of 20th Anniversary International Conference on Metallurgy and Materials: METAL 2011*. Ostrava: Tanger s.r.o., 2011, p. 376-382 ISBN 978-80-87294-24-6

**HUTYRA, M.:** Self-Assessment According to EFQM Excellence Model as the Tool for Evaluation of University. In: *Proceedings of QMOD Conference on Quality and Service Sciences 2011*. Pamplona (Spain): 2011, 9 p. ISBN 84-8081-211-7

**HUTYRA, M.:** Implementation of TQM Approach in the University Environment. In: *Proceeding of , 55th EOQ Congress*. Budapest (Hungary): EOQ, 2011, 8 p.

**KELBLEROVÁ, M.:** Why are not the Companies Successful in the Application of SPC? [In Czech]. In: *Proceedings of Conference Kvalita - Quality 2011*. Ostrava: DTO CZ, s. r. o., 2011, 6p. "G44"- "G49" ISBN 978-80-02-02322-7

**KELBLEROVÁ, M., VYKYDAL, D.:** Application of QFD and SPC Methods in the Processes of Design and Products Manufacturing. In: *Proceedings of 12th International Carpathian Control Conference, (ICCC)*. Ostrava: VŠB-TU Ostrava, 2011, p. 181-186. ISBN 978-1-61284-360-5

**KLAPUT, P., PLURA, J.:** The Importnace of Graphical Tools for Measurement Systems Analysis. In: *Proceedings of QMOD Conference on Quality and Service Sciences 2011*. Pamplona (Spain): 2011, 19 p. ISBN 84-8081-211-7

**KLAPUT, P.:** Evaluation of the Acceptability of Measurement System for Special Quality Characteritics. In: *Seminar proceedings „Internal PhD Day 2011 - FMME*. Ostrava: VŠB – TU Ostrava, 2011, 4 p. ISBN 978-80-248-2523-6

**KLAPUT, P.:** The Importnace of Graphical Tools for Measureemnt Systems Analysis. In *Proceedings of International Baťa Conference for Ph.D. Students and Young Researchers*. Zlín: UTB ve Zlíně, 2011, p. 221-230. ISBN 978-80-7454-013-4

**KOHOUTOVÁ, M.:** Use Fuzzy Logic Control for Process. [In Czech]. In: *Proceedings of Conference Kvalita - Quality 2011*. Ostrava: DTO CZ, s. r. o., 2011, 5 p. "G15"- "G19" ISBN 978-80-02-02322-7

**KOHOUTOVÁ, M., HUTYRA, M.:** Practical Application of Fuzzy Logic in Process Control. In: *Proceedings of QMOD Conference on Quality and Service Sciences 2011*. Pamplona (Spain): 2011, 14 p. ISBN 84-8081-211-7

**NENADÁL, J.:** Process benchmarking at public organizations (Importance of inicial phase). [In Czech]. In: *Conference proceedings Quality management at public sector*. Bratislava: ÚNMS SR, 2011, 8 p.

**NENADÁL, J.:** Risks related to the process approach implementation at industry. [In Czech]. In: *Conference proceedings Risk sof company processes*. Ústí nad Labem. J. E. Purkyně University 2011, 9 p. ISBN 978-80-7414-371-7

**NOSKIEVIČOVÁ, D.:** Selected Applications of Statistical Process Control in Metallurgy. In: *Proceedings of 20th Anniversary International Conference on Metallurgy and Materials:*

*METAL 2011*. Ostrava: Tanger s.r.o., 2011, p. 1183-1191 ISBN 978-80-87294-24-6

**NOSKIEVIČOVÁ, D., PAUCHOVÁ, A., KELBLEROVÁ, M.:** Analysis of Effective Implementation of SPC. In: *Annals of DAAAM & Proceedings of DAAAM International Symposium*. Vienna: DAAAM International Vienna. 2011, 2 p. ISBN 978-3-901509-83-4

**NOSKIEVIČOVÁ, D.:** SPC Methods when Distributions Parameters are Nonconstant. [In Czech]. In: *Proceedings of International Conference Kvalita - Quality 2011*, Ostrava: DTO CZ, Ltd. 2011, pp. C6-C8. ISBN 978-80-02-02322-7

**FRIDRICH, J., NOSKIEVIČOVÁ, D.:** Model – Free Approach to Autocorrelated Data in SPC. [In Czech]. In: *Proceedings of International Conference Kvalita - Quality 2011*, Ostrava: DTO CZ, Ltd. 2011, pp. G36-G43. ISBN 978-80-02-02322-7

**PETŘÍKOVÁ, R.:** Responsible and Clever Firms – Base of a Responsible and Clever State. [In Czech]. In: *Proceedings of Conference „Společenská odpovědnost firem – transfer vědeckých poznatků do praxe“*. Olomouc: Moravian University College Olomouc, 2011, 6 p. ISBN 978-80-87240-67-0

**PETŘÍKOVÁ, R.:** Shared Value – The Base of the Concept of Social Welfare Organizations (CSV). [In Czech]. In: *Proceedings of European Week of Quality*. Praha: ČSJ, 2011, 5 p. ISBN 978-80-02-02348-7

**PLURA, J., KLAPUT, P.:** The Possibilities of Confidence Improvement of Measurement Systems Analyses Results. [In Czech]. In: *Proceedings of 20th Anniversary International Conference on Metallurgy and Materials: METAL 2011*. Ostrava: TANGER, spol. s r.o., 2011, p. 1334-1339 ISBN 978-80-87294-24-6

**TOŠENOVSKÝ, J.:** Multivariate Loss Function for Quality Process Management. [In Czech]. In: *Proceedings of Conference Kvalita - Quality 2011*. Ostrava: DTO CZ, s. r. o., 2011, 8 p. ISBN 978-80-02-02322-7

**VYKYDAL, D., FABÍK, R., KELBLEROVÁ, M.:** Cost-oriented FMEA of Hot Rolled Wire Production. In: *Proceedings of 20th Anniversary International Conference on Metallurgy and Materials: METAL 2011*. Ostrava: Tanger s.r.o., 2011, p. 1310-1317 ISBN 978-80-87294-24-6

**ZEMEK, M.:** Process Capability Analysis In Non-Standard Situations. In: *Seminar proceedings „Internal PhD Day 2011 - FMME*. Ostrava: VŠB – TU Ostrava, 2011, 4 p. ISBN 978-80-248-2523-6

## 6.4 Other Publications

**PLURA, J., KLAPUT, P.:** Computer Aided Quality Management with Using Minitab. Ostrava: VŠB - Technická univerzita Ostrava, 2011. 80 p.

## 6.5 Others

**PETŘÍKOVÁ, R.:** Education in the Area of the Social Responsibility Project. [In Czech]. *Bulletin of Social Responsibility*. AHA Trading: Ostrava, 2011, 4 p. Ev. n. MK ČR E19462

**PETŘÍKOVÁ, R.:** About Return to Quality Roots. [In Czech]. In: *Prosperita*, Vol. 13, n. 10/2011. ISSN 1213-6492

**PETŘÍKOVÁ, R. - HÁNOVÁ, D.:** Activities MSK in the Area of CSR. [In Czech]. In:

*Hospodářské noviny*. 27. October 2011, Prague: Economica. ISSN 0322-7774

**PETŘÍKOVÁ, R.:** Meeting of RK ČR „Quality in Education“. [In Czech]. In: *Kvalita pro život*. Vol. XII, n. 2/2011, p. 3-5. ISSN 1803-9138

**KRAJČÍK, V., JÜNGER, R., PETŘÍKOVÁ, R.:** New Member of RK CR presents itself. [In Czech]. In: *Hospodářské noviny*, 27. October 2011 Prague: Economica. ISSN 0322-7774

**PETŘÍKOVÁ, R.:** Quality in Education. [In Czech]. In: *Národní program kvality 2011*. Praha: RK ČR, NIS-PK, p. 16 - 18. ISSN 978-80-02-02312-8

## 7 THE REVIEWS, EXPERTISES

### 7.1 PhD Thesis

PhD Student	University	Topic	Assessor
Martin Folta Ing. et Ing.	VŠB-TU Ostrava	The development of methodology of quality improvement and its practical use.	Prof. Ing. J. Nenadál, Ph.D.
Barbora Stieberová Ing.	ČVUT Praha	The proposal of process quality management system at higher education.	Prof. Ing. J. Nenadál, Ph.D.
Petr Čamlík, Ing.	ČVUT Praha	The production quality at organization strategy.	Prof. Ing. J. Nenadál, Ph.D.
Dita Janíková, Ing.	VUT Brno	The model for economical process simulation (cost of poor quality monitoring).	Prof. Ing. J. Nenadál, Ph.D.
Ivor Poprach, Ing.	ČVUT Praha	The impact of selected factors to performance increasing at machinery company.	Prof. Ing. J. Nenadál, Ph.D.
Marek Hila, Ing.	VŠB-TU Ostrava	Innovation within systems approach to suppliers at automotive industry.	Prof. Ing. J. Nenadál, Ph.D.
Czeslaw Kura, Ing. MBA	VŠB-TU Ostrava	Key personal processes a their continuous improvement within strategic changes.	Prof. Ing. J. Nenadál, Ph.D.
Jun LI, Ing.	Tomas Bata University in Zlín	Comparison study of human resources management in Chinese and Czech companies (for improvement of their potential cooperation.	Prof. Ing. R. Petříková, Ph.D.

### 7.2 Syllabus of PhD Thesis

PhD Student	University	Topic	Assessor
Jana Brathová, Ing.	Tomas Bata University in Zlín	Company as a Living Organism..	Prof. Ing. R. Petříková, 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 in Metallurgy.	Doc. Ing. Milan Havlík, Ph.D.	Ministry of Education, Science, Research and Sport of Slovak Republic	Prof. Ing. Jiří Plura, Ph.D.

### 7.4 International standards proposal

Standard title	The review made for	Assessor
ISO/TS 10004 Quality management – Customer Satisfaction – guidelines for monitoring and measurement.	Czech Institute for Metrology and Testing Prague	Prof. Ing. J. Nenadál, Ph.D.
ISO/IEC – DIS Conformity assessment – General requirements for bodies operating certification of persons	Czech Accreditation Institute Prague	Prof. Ing. J. Nenadál, Ph.D.

### 7.5 Publications

Title	Author	Type of publication	Reviewer
Processes and items of project management	Petr Řeháček	book	Prof. Ing. J. Nenadál, Ph.D.
Competitive Potential of Industrial Company.	Mikoláš, Z. – Petřlová, J. – Tvrđíková, M. a kol.	book	Prof. Ing. R. Petříková, Ph.D.

### 7.6 Special and scientific articles

Article Title	Author	Article for Journal	Assessor
Quality Management in the Fire and Rescue Service of Czech Republic: Operation and Information Centre, their customers a and processes	Marek Gašparin	Q-Magazín	Doc. Ing. M. Hutýra, Ph.D.
An analysis of solutions and approaches to improve management in organizations (research in organizations)	Petr Tyráček	Q-Magazín	Doc. Ing. M. Hutýra, Ph.D.
Critical success factors in supply chain partnership	Marek Hila	Q-Magazín	Doc. Ing. M. Hutýra, Ph.D.

<b>Article Title</b>	<b>Author</b>	<b>Article for Journal</b>	<b>Assessor</b>
Partnership in the automotive industry supply chain	Marek Hila	Q-Magazín	Doc. Ing. M. Hutyra, Ph.D.
Flowchart Application for Enterprise Decision on the Implementation of Eco-Label in its Manufacturing Program	anonymus	Finance and Performance of Firms in Science, Education and Practice	Prof. Ing. J. Nenadál, Ph.D.
Implementation Possibilities and Confines of Modern Costing System in Poland	anonymus	Finance and Performance of Firms in Science, Education and Practice	Prof. Ing. J. Nenadál, Ph.D.
Contribution of Six Sigma Method to the Efficiency Increasing of Manufacturing Process	anonymus	Finance and Performance of Firms in Science, Education and Practice	Prof. Ing. J. Nenadál, Ph.D.
When the product breaks down...	anonymus	Kvalita pro život	Prof. Ing. J. Nenadál, Ph.D.
The Possibilities of Weight Defining during Suppliers Comparison	Besta Petr, Ranochová Petra	Kvalita pro život	Prof. Ing. J. Nenadál, Ph.D.
Co-ordination of management systems at companies	M. Malindžáková	Kvalita pro život	Prof. Ing. J. Nenadál, Ph.D.
The Contribution of Measurement Processes in a Time of Economic Crisis	anonymus	Journal of Competitiveness	Prof. Ing. J. Nenadál, Ph.D.
Sustainable Tourism – Comparison of Selected International Programs of Eco-certification	anonymus	AUSPICIA	Prof. Ing. J. Nenadál, Ph.D.
Optimization of the Customers Queues Using Simulation in MS Excel.	Dita Janíková	Q-Magazín	Prof. Ing. D. Noskiewičová, Ph.D.
MSK – Time for Change.	Vítězslav Zamarský, Ivo Formánek	Kvalita pro život	Prof. Ing. R. Petříková, Ph.D.
Process of quality assurance on the high school.	Vladimír Krajčík	Kvalita pro život	Prof. Ing. R. Petříková, Ph.D.
Family - incubator of quality and social responsibility.	Vítězslav Zamarský	Kvalita pro život	Prof. Ing. R. Petříková, Ph.D.
CSR evaluation - an overview of available methods.	Michal Kopecký	Kvalita pro život	Prof. Ing. R. Petříková, Ph.D.
Entrepreneurship, business, entrepreneurs, business environment and the Business School.	Vladimír Vavrečka	Kvalita pro život	Prof. Ing. R. Petříková, Ph.D.
Evaluation of Hardness Measurement Quality	Petrík, J. et al.	Hutnické listy	Prof. Ing. J. Plura, Ph.D.

## 8 THE CO-OPERATION WITH PRACTICE

Action	Customer	Supplier
Special education „chaining knowledge”	VÍTKOVICE a.s.,	Prof. Ing. R. Petříková, Ph.D.
Specialized course „FMEA and its Use in Quality Planning and Improvement“	DTO CZ, s.r.o.	Prof. Ing. J. Plura, Ph.D.
Specialized course „Measurement System Analysis“.	HOBES a.s., Horní Benešov	Prof. Ing. J. Plura, Ph.D.
Specialized course „Statistical Process Control and Process Capability Analysis“	Indet Safety Systems, a.s., Vsetín	Prof. Ing. J. Plura, 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 Diagnosticion Tribodiagnosics  
Technical Diagnosticion Vibrodiagnosics  
Technical Diagnosticion Termodiagnosics  
Technical Diagnosticion of Assembly and Optical Measurements  
Technical diagnostics 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 medical devices**

Medical Devices Management System Auditor

77 persons were newly certified and 162 persons were recertified in 2011 for these functions:

<b>Function</b>	<b>Newly certified</b>	<b>Recertified</b>
Quality Manager + EOQ	18	36
Quality Auditor External + EOQ	5	52
Quality Auditor of Management Systems of Medical Devices	0	0
Head of Testing Laboratory	0	4
EMS Manager	7	6
EMS Auditor	3	18
Technical Diagnostician	26	30
HSMS Manager	6	4
HSMS Auditor	2	8
Human Resources Manager	0	2
Creativity and Innovation Manager	10	0
Management Systems Consultant	0	2
<b>TOTAL</b>	<b>77</b>	<b>162</b>

## **10 THE REPRESENTATION AT ACADEMIC OR EXPERT BODIES**

### **10.1 At VŠB – Technical University Ostrava**

<b>Expert (Academic) Bodies</b>	<b>Representative</b>	<b>Membership</b>
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. Nenadál, Ph.D. Prof. Ing. J. Plura, Ph.D. Prof. Ing. D. Noskievičová, Ph.D. Prof. Ing. J. Tošenovský, Ph.D.	<i>chairman</i> <i>member</i> <i>member</i> <i>member</i>
Specialization of 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. D. Noskievičová, Ph.D.	<i>member</i>



## 10.2 Beyond VŠB – Technical University of Ostrava

Expert (Academic) Bodies	Representative	Membership
Faculty of Mining, Ecology, Process Control and Geotechnology, Technical University of Košice	Prof. Ing. J. Plura, Ph.D.	<i>chairman of the examining board for final state exams</i>
Faculty of Mechanical Engineering, University of Žilina	Prof. Ing. J. Nenadál, Ph.D.	<i>chairman of the examining board for final state exams</i>
Faculty of Mechatronics, TUAD Trenčín, Slovakia	Prof. Ing. D. Noskiewičová, Ph.D.	<i>chairman of the examining board for final state exams</i>
Alexander Dubcek University of Trenčín	Prof. Ing. R. Petříková, Ph.D.	<i>chairman of the examining board for final state exams</i>
Faculty of Mechanical Engineering, Technical University of Košice	Prof. Ing. R. Petříková, Ph.D.	<i>member 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>
Faculty of Metallurgy Technical University of Košice	Prof. Ing. J. Nenadál, Ph.D.	<i>member of specialist board for doctoral study program Quality of Production</i>
Faculty of Machinery VUT Brno	Prof. Ing. J. Nenadál, Ph.D.	<i>member of specialist board for doctoral study program</i>
European Foundation for Quality Management Brusel	Prof. Ing. J. Nenadál, Ph.D.	<i>representative of VŠB-TU Ostrava</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. Noskiewičová, 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>
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>



<b>Expert (Academic) Bodies</b>	<b>Representative</b>	<b>Membership</b>
The International Association for Statistical Computing (IASC)	Prof. RNDr. J. Tošenovský, Ph.D.	<i>member</i>
Scientific Council of Faculty of Management, GWSH Katowice	Prof. Ing. J. Nenadál, Ph.D.	<i>member</i>
Scientific Program Committee of International scientific conference Quality and its Applications	Prof. Ing. J. Nenadál, Ph.D.	<i>member</i>
International Conference Metal 2011, Brno	Prof. Ing. D. Noskiewičová, Ph.D.	<i>Professional guarantor – symposium F: Economics and Management of Metallurgy</i>
The Certification Body ACM DTO CZ	Prof. Ing. J. Nenadál, Ph.D.	<i>chairman</i>
The Certification Body ACM DTO CZ	Prof. Ing. J. Plura, Ph.D.	<i>chairman of programme committee for personal certification chief auditor</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. Prof. RNDr. J. Tošenovský, Ph.D. Doc. Ing. M. Hutyra, 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 „Kavalita. Inovacia. Prosperita“	Prof. Ing. J. Nenadál, Ph.D. Prof. Ing. R. Petříková, Ph.D.	<i>members of edition board</i>
The journal „Kvalita pro život“	Prof. Ing. J. Nenadál, Ph.D. Prof. Ing. J. Plura, Ph.D. Prof. Ing. R. Petříková, Ph.D. Prof. Ing. D. Noskiewičová, Ph.D. Ing. D. Vykydal, Ph.D. Ing. Mgr. P. Halfarová	<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>
Management Press Prague	Prof. Ing. J. Nenadál, Ph.D.	<i>member of scientific edition board</i>

## **11 THE ACTIVITIES WITHIN BOARDS FOR APPOINTMENT TO PROFESSOR AND HABILITATIONS BOARDS**

<b>University, Faculty</b>	<b>Board</b>	<b>Applicant</b>	<b>Members of the board</b>
Tomas Bata University in Zlín	<i>for habilitation board</i>	Ing. Vladimír Dostál, Ph.D.	Prof. Ing. J. Nenadál, Ph.D. Prof. Ing. R. Petříková, Ph.D. – <i>members</i>
Tomas Bata University in Zlín	<i>for habilitation board</i>	Ing. Hana Mohelská, Ph.D.	Prof. Ing. R. Petříková, Ph.D. – <i>member</i>
Technical University of Košice	<i>for habilitation board</i>	Ing. Jozef Petrik, PhD.	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>
Technical University of Košice	<i>for habilitation board</i>	Ing. Vojtech Mikloš, PhD.	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>

## 12 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. Petr Tyráček, MBA	Prof. Ing. J. Nenadál, Ph.D. – <i>chairman</i> Prof. Ing. J. Plura, Ph.D. Prof. Ing. R. Petříková, Ph.D. Doc. Ing. M. Hutýra, Ph.D. Prof. RNDr. J. Tošenovský, Ph.D. – <i>members</i>
VŠB-TU Ostrava	<i>for defense Ph.D. thesis</i>	Ing. et Ing. Martin Folta	Prof. Ing. J. Nenadál, Ph.D. – <i>chairman</i> Prof. Ing. J. Plura, Ph.D. Prof. Ing. R. Petříková, Ph.D. – <i>members</i>
VŠB-TU Ostrava	<i>for defense Ph.D. thesis</i>	Ing. Jitka Smutná	Doc. Ing. Milan Hutýra, Ph.D. – <i>member</i>
VŠB-TU Ostrava	<i>for defense Ph.D. thesis</i>	Ing. Czeslaw Kura, MBA	Prof. Ing. Jiří Plura, Ph.D. – <i>chairman</i> Prof. Ing. R. Petříková Doc. Ing. M. Hutýra, Ph.D. Prof. Ing. J. Nenadál, Ph.D. – <i>members</i>
VŠB-TU Ostrava	<i>for defense Ph.D. thesis</i>	Ing. Lukáš Mildorf	Prof. Ing. J. Nenadál, Ph.D. – <i>chairman</i> Prof. Ing. D. Noskiewičová, Ph.D. Doc. Ing. M. Hutýra, Ph.D. Prof. RNDr. J. Tošenovský, Ph.D. Prof. Ing. Jiří Plura, Ph.D. – <i>members</i>
Czech Technical University in Prague	<i>for defense Ph.D. thesis</i>	Ing. Barbora Stieberová	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>
Czech Technical University in Prague	<i>for defense Ph.D. thesis</i>	Ing. Petr Čamlík	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>
Brno University of Technology	<i>for defense Ph.D. thesis</i>	Ing. Dita Janíková	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>
Tomas Bata University in Zlín	<i>for defense Ph.D. thesis</i>	Ing. Karel Slinták	Prof. Ing. R. Petříková – <i>member</i>
University of Žilina	<i>for defense Ph.D. thesis</i>	Ing. Peter Pazúr	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>
Technical University of Košice	<i>for defense Ph.D. thesis</i>	Ing. Anna Nagyová	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>
Technical University of Košice	<i>for PhD state exams</i>	Ing. Michal Horváth	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>

University	Board	PhD Student	Membership of the board
Technical University of Košice	<i>for PhD state exams</i>	Ing. Štefan Antolík	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>
Technical University of Košice	<i>for PhD state exams</i>	Ing. Jana Nemešanská	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>
Technical University of Košice	<i>for PhD state exams</i>	Ing. Michal Hovanec	Prof. Ing. J. Nenadál, Ph.D. – <i>member</i>

## 13 SPECIAL AUTHORITIES OF DEPARTMENT

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

#### June 2010:

##### **Commission No. 1:**

Ing. Petr Benda, Ph.D. - *chairman*  
 Prof. Ing. Jiří Plura, Ph.D. - *vice-chairman*  
 Prof. Ing. Růžena Petříková, Ph.D.  
 Prof. RNDr. Josef Tošenovský, Ph.D.  
 Ing. Josef Smetana, PhD., MBA  
 Ing. Petr Filipec  
 Ing. Mgr. Petra Halfarová - *secretary*

##### **Commission No. 2:**

Doc. Ing. Pavla Macurová, Ph.D. - *chairman*  
 Prof. Ing. Darja Noskievičová, Ph.D. - *vice-chairman*  
 Prof. Ing. Jaroslav Nenadál, Ph.D.  
 Doc. Ing. Milan Hutyra, Ph.D.  
 Ing. Šárka Janků, PhD.  
 Ing. Filip Tošenovský, PhD.  
 Ing. Bc. Michaela Kelblerová - *secretary*

#### September 2010:

Ing. Petr Benda, Ph.D. – *chairman*  
 Prof. Ing. Jiří Plura, Ph.D. - *vice-chairman*  
 Ing. Pavel Hercík, Ph.D.  
 Prof. RNDr. Josef Tošenovský, Ph.D.  
 Prof. Ing. Darja Noskievičová, Ph.D.  
 Ing. Šárka Janků, Ph.D.  
 Ing. Mgr. Petra Halfarová – *secretary*

## **13.2 The Examining Board for Final State Exams of Master Study within Special Branch of Quality Management**

### **May 2010:**

#### **Commission No. 1:**

Ing. Petr Benda, Ph.D. - *chairman*  
Prof. Ing. Jaroslav Nenadál, Ph.D. - *vice-chairman*  
Ing. Vladimír Bartoš, Ph.D.  
Doc. Milan Hutýra, Ph.D.  
Prof. Ing. Darja Noskiewičová, Ph.D.  
Ing. Jana Serafinová, MBA  
Ing. Bc. Michaela Kelblerová - *secretary*

#### **Commission No. 2:**

Ing. Petr Kunčický, Ph.D. – *chairman (TOQUM)*  
Prof. Ing. Jiří Plura, Ph.D. - *vice-chairman*  
Doc. Ing. Miloslav Jakob, Ph.D.  
Prof. Ing. Růžena Petříková, Ph.D.  
Prof. RNDr. Josef Tošenovský, Ph.D.  
Ing. Alan Vápeníček, Ph.D.  
Ing. Mgr. Petra Halfarová - *secretary*

### **November 2010:**

Ing. Jana Serafinová, MBA - *chairman (Vítkovice Testing Center, s.r.o.)*  
Prof. Ing. Jaroslav Nenadál, Ph.D. - *vice-chairman*  
Prof. Ing. Jiří Plura, Ph.D.  
Prof. Ing. Darja Noskiewičová, Ph.D.  
Prof. Ing. Růžena Petříková, Ph.D.  
Prof. RNDr. Josef Tošenovský, Ph.D.  
Ing. Mgr. Petra Halfarová - *secretary*

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# The Department of Quality Management

Faculty of Metallurgy and Material Engineering VŠB – TU Ostrava

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## 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 9000:2008 family of standards,
- application of the EFQM Excellence Model,
- self-assessment of organizations,
- implementation of training programs per order,
- implementation of modern statistical methods,
- product capability analysis, measurement 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!**

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*E-mail:* [jiri.plura@vsb.cz](mailto:jiri.plura@vsb.cz)

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Tř. 17. listopadu 15  
VŠB-Technical University Ostrava  
708 33 Ostrava - Poruba



# OHL ŽS

## Modern face of building industry

**OHL ŽS, a.s.** is a dynamic, multi-profession company with a tradition of over fifty years, ranking among the major building companies in the Czech Republic both in size and importance. We steadily keep our position among the industry leading firms.

Until 2006 our company had been known to our business partners and the general public as ŽS Brno, a.s. By changing our name to OHL ŽS, a.s. we manifested our affiliation to the international Spanish building and investment group OHL that we became part of in 2003.

Corporate management of the company is based on the Integrated Management System with certified systems in the following areas:

- ✓ **Quality management system** in accordance with ISO 9 001,
- ✓ **Environmental management system** in accordance with ISO 14 001 extended by the **EMAS Programme**,
- ✓ **Work safety management system** in accordance with OHSAS 18 001 supported by the **Safe Enterprise Programme**,
- ✓ **Information Security management system** in accordance with ISO/IEC 27 001.

We are a corporate member of **Project management association** of Czech Republic.

We are specialists in transport – railway and road constructions and our major activities also include building construction and infrastructure. OHL ŽS, a.s. professionals deliver many contracts not only within the Czech Republic but also abroad.

Our company, or its branches, obtained a number of awards in the past, such the CZECH MADE product brand, the **Czech National Quality Award** (2003) and **Recognised for Excellence in Europe** (2004) within the EFQM Excellence Model or **ETHNIC FRIENDLY employer** (2008).

We are successful and therefore set it out to help those who need support. Awareness of responsibility for others associated with providing structured and effective help has become part of our corporate culture. We are pleased to be able to make use of our success in giving targeted support to the non-profit sphere and participate in a number of beneficial projects. Also this is part of the modern face of Czech building industry as represented by the OHL ŽS, a.s. company.

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