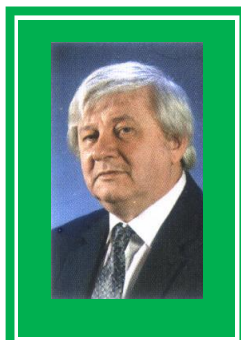


## Department of Industrial Engineering and Management



### Contact

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### Staff

- Professors: 2
- Assoc. Professors: 3
- Lectures: 7
- Researchers: 2
- PhD Students: 6

## Activities at the department

Date	Title of the event, activity characterizing the life at the Institute in 2013
4/2012	Journal Transfer inovácií 25/2013
6/2012	Journal Transfer inovácií 26/2013
09/2013	Journal Transfer inovácií 27/2013
12/2013	Journal Transfer inovácií 28/2013
12/2013	16th International Scientific Conference Trends and innovative approaches in business processes, Košice © 2013

## EDUCATION AT THE DEPARTMENT STUDY PROGRAMMES

### Bachelor's degree:

5.2.52 Industrial Engineering

### Master's degree:

5.2.52 Industrial Engineering

### Doctoral degree:

5.2.52 Industrial Engineering

### Number of the students (2013/2014)

on the study programmes guaranteed by the department:

Bachelor's degree:

- 80 internal form of study
- 13 external form of study

Master's degree:

- 95 internal form of study
- 39 external form of study

Doctoral degree::

- 6 internal form of study
- 9 external form of study

### Number of the graduates (2012/2013)

on the study programmes guaranteed by the department:

Bachelor's degree:

- 36 internal form of study
- 10 external form of study

Master's degree:

- 39 internal form of study
- 16 external form of study

Doctoral degree:

- 6 internal form of study
- 4 external form of study

## GRADUATE PROFILE

### BACHELOR PROGRAMMES (Bc.)

#### Industrial Engineering

The Bachelor of Industrial Engineering programme objective is to help students apply technical, technological, economical and mathematical principles to the design,

improvement, and installation of integrated systems comprised of people, material, information, and energy.

## **MASTER PROGRAMMES (MSc., ENG.)**

### **Industrial Engineering**

The graduate gains complete university education focused on planning, designing, implementing and managing production systems and also creativity development in engineering projects or processes. The student has deep knowledge of natural sciences, technical, technological disciplines and humanities with expertise in industrial engineering, company management, production management, business economics, theoretical knowledge of operation and system analysis, logistics, personal management, investment, finance, innovation, information management, etc. The graduate is ready, either to continue his/her study in postgraduate degree and develop his/her research career in industrial management, or to enter job market immediately. He/she will successfully perform as a middle or top manager in organisations within various sectors of industry, requiring the synergy of managerial, economical, technical and soft skills and knowledge.

## **DOCTORAL PROGRAMMES (PhD.)**

### **Industrial Engineering**

The graduate gains complex university education in Industrial Engineering. He/she has mastered research and development methods of gaining knowledge independently. He/she will be able to develop creative methods in the field of the Industrial Engineering. The graduate will be successful in the top managerial positions in various types of organisations, consulting companies and universities, in both research and teaching careers.

## **LIST OF SUBJECTS GUARANTEED BY THE DEPARTMENT**

### **Industrial Engineering**

- ✓ Automation of Production
- ✓ Accounting
- ✓ Assembly in automobile industry
- ✓ Basics of Industrial Engineering
- ✓ Basics of Law
- ✓ Basics of Marketing
- ✓ Basics of Production Design
- ✓ Basics of Work Rationalization
- ✓ Business Analysis
- ✓ Business Economics
- ✓ Business Information System
- ✓ Business Management
- ✓ Business Strategy of SMEs
- ✓ Design of Manufacturing Processes and Systems
- ✓ Design of production systems
- ✓ Design of workplaces and operations in automobile industry
- ✓ Economics of Manufacturing Technologies
- ✓ Economics of Operations and Maintenance
- ✓ Economics of Production Enterprise
- ✓ Ergonomics
- ✓ Ergonomics II.
- ✓ Financial and Economic Analysis
- ✓ Flexible Assembly Systems
- ✓ Human Resource Management
- ✓ Human Self-realization Management
- ✓ Innovation Management
- ✓ Introduction to economics, organization and entrepreneurship in engineering production

- |  |                                      |
|--|--------------------------------------|
| ✓ Introduction to Economics                      | ✓ Operations Management              |
| ✓ Laboratory exercises II. – automobile assembly | ✓ Personal Management                |
| ✓ Machine Ergonomics                             | ✓ Planning in automobile production  |
| ✓ Management and Business Economics              | ✓ Production Design                  |
| ✓ Management of Changes                          | ✓ Production Management              |
| ✓ Management of Investment Business Development  | ✓ Productivity and Competitiveness   |
| ✓ Marketing                                      | ✓ Project Management                 |
| ✓ Marketing Strategy of Enterprises              | ✓ Psychology in Managerial Work      |
|  | ✓ Strategic and Financial Management |
|  | ✓ Supply and Distribution Logistics  |
|  | ✓ Taxation                           |

## GRADUATE THESES

### BACHELOR'S THESES:

#### Industrial Engineering

<b>Bančanská Ludmila</b>	Modular systems for food production
<b>Bartošová Lea</b>	Project management in the field of electrical engineering
<b>Dudová Anna</b>	Process optimization blowing nitrogen Zn layer on the operating conditions of lines
<b>Dufala Marek</b>	The key risks of innovative projects
<b>Duchová Viera</b>	Performance management process engineering production
<b>Fedorek Tomáš</b>	Innovation processes within the storage of selected products
<b>Fryc Erik</b>	Production optimization of electrical products in the company's SEZ Krompachy a.s.
<b>Goduš Daniel</b>	Industrial gases used in welding
<b>Hamrák Lukáš</b>	Handling equipment and engineering equipment manufacturing.
<b>Handzušová Veronika</b>	Product lifecycle management in PLM systems
<b>Hul'vej Tomáš</b>	Methods and systems engineering semi-protection against corrosion
<b>Jakab Matej</b>	Reconfigurable (modular) systems for palletizing and storage
<b>Jánoš Marek</b>	Evaluation the impact of the working conditions on workers healthy in the industry
<b>Jurčišin Miloš</b>	Possibilities to develop the production and marketing area of selected company
<b>Kocichová Nikoleta</b>	Import barriers of goods from third countries
<b>Kočiš Milan</b>	Assessment the level of monotony of manual work
<b>Kočiš Peter</b>	Solution of supply logistics in the company Termostav-Mráz, Ltd
<b>Kokjati-Nagyová Petra</b>	Management of the documentation in PLM systems
<b>Košár Martin</b>	Reconfigurable (modular) systems for inter-operational transport
<b>Koťuhová Katarína</b>	Identifying gaps implemented management systems
<b>Maliňák Tomáš</b>	Production planning in an industrial enterprise
<b>Mikláš Michal</b>	The application of synergy in order production
<b>Minaríková Miroslava</b>	Application of MS Project in the innovation projects management
<b>Mnichová Anna</b>	Measurement of work and workers efficiency in selected company

<b>Murdžáková Erika</b>	Case study of customer relationship management
<b>Polláková Enikő</b>	Optimization of logistics activities in Manex, Ltd.
<b>Saksa Martin</b>	Simulation of the production process in Plant Simulation
<b>Sopková Oľga</b>	Innovation IS to support the operation of the company ZSSK Cargo Slovakia,a.s.
<b>Straková Miriam</b>	Inovation of system marketing activities company DSI Slovakia ltd.
<b>Szakácssová Lilla</b>	Case study of supply chain optimization in the manufacturing process
<b>Szúcsová Juliána</b>	Packaging Technology Applied in machinery production
<b>Tilický Peter</b>	Evaluation of the production factors in a particular company
<b>Tirpáková Jana</b>	Failure analysis in the process of GETRAG FORD Transmissions GmbH
<b>Tóth Gabriel</b>	Case study of elimination the selected forms of waste for a particular process
<b>Vargová Iveta</b>	Increasing efficient use of technology in the transport business
<b>Valčo Stanislav</b>	Study to increase the productivity of manual work activity
<b>Balla Tomáš</b>	Extending the product range in the engineering company
<b>Bubák Peter</b>	Trends in ergonomic products innovation
<b>Glosner Richard</b>	Elimination of shifted wraps of HR coils rolled on HRM 1700
<b>Kočíš Jozef</b>	Implementation of TPM and its direct impact on the efficiency of production facilities
<b>Kozel Róbert</b>	Draft of pallet truck manufacturing process in Hakoz company
<b>Sasfai Róbert</b>	A case study of the implementation of production facility innovation in process of continuous casting
<b>Schindler Roman</b>	Model study of optimization of the production process
<b>Šefčík Ján</b>	Modernization project production activities of the company
<b>Vancák Marek</b>	Possible substitutes electroplated deposited chromium coatings
<b>Zambo Michal</b>	Process optimization for increased stability passivated corrosion protection of galvanized products

**MASTERS THESES:****Industrial Engineering**

<b>Agnetin Dominik</b>	Optimization and production process innovation of weldments
<b>Balog Anton</b>	Guerilla marketing application for small and medium businesses
<b>Bjalončíková Miroslava</b>	Innovation project of business processes optimization
<b>Budayová Elena</b>	Experimental verification of a virtual reality equipment
<b>Diková Antónia</b>	Optimization of the drilling process of selected products
<b>Ferko Michal</b>	Experimental verification of multi-touch interactive systems design
<b>Franko Vladimír</b>	Simulation and optimization of supply chain enterprise
<b>Gavulová Simona</b>	Ergonomic criteria for assembly workstations
<b>Harmošová Zuzana</b>	Feasibility study of introducing of corporate investment in production
<b>Hil'ovský Patrik</b>	Application of the NIOSH method for loads handling
<b>Hriva Marek</b>	Financial investment of industrial enterprises
<b>Chovancová Denisa</b>	Innovative measures for the production process of steel constructions
<b>Janočko Peter</b>	Optimization of production operations in company Matador Automotive Vráble

<b>Jurina Maroš</b> <b>Kepič Lukáš</b>	Implementation of the model in practice improvement DMADV The application of modern quality management approach in terms of the engineering company
<b>Konradyová Zuzana</b> <b>Kobulnický Ján</b> <b>Kočiščáková Jana</b> <b>Kučerák Michal</b>	Competence network businesses Implementation of the controlling in an industrial company Study of an industrial enterprise performance development Optimization of production scheduling based on selected algorithms
<b>Lacková Veronika</b> <b>Lipták Lukáš</b>	Project study of ergonomic laboratory solving Sensitivity of selected disassembly optimization model output on change of mobile phone model
<b>Mikulcová Martina</b> <b>Pakan Patrik</b>	Application of risk in an investment decision Innovation of sales promotion in the company Prívesy, Ltd.Rožňava
<b>Petričko Juraj</b> <b>Petrigalová Patrícia</b> <b>Ravas Ľubomír</b> <b>Rybár Rastislav</b>	Increase the efficiency of processing of crushed stone Support management decision-making in company by reporting System optimization of service processes in mechanical production Experimental verification of the simulation module of software system Tecnomatix
<b>Sarvaš Miroslav</b> <b>Semanová Veronika</b> <b>Schneider Matúš</b> <b>Skokan Peter</b> <b>Sleziak Tomáš</b> <b>Suvák Adam</b> <b>Šimočko Martin</b> <b>Škuba Ján</b> <b>Šuhajda Ľuboš</b> <b>Švihurová Lenka</b> <b>Tarhanič Tomáš</b> <b>Vysoký Jaroslav</b>	Innovation of production in the industrial company Project lifecycle management of products Designing of digital factories Simulation models of selected technological processes Implementation of PLM systems in manufacturing companies Innovation system marketing activities of universities Optimizing the optical environment of production workstation Optimization of supply activities in company Viard - H Disassembly optimization of selected mobile phones Optimization of supply chain management company Agile corporate structure Impact of PLM systems on the supply chain and distribution chain in the enterprise
<b>Berdáková Alena</b> <b>Dorová Bernadeta</b> <b>Ficery Tomáš</b> <b>Pado Marián</b> <b>Chovancová Lívia</b>	Measurement of company performance The impact of quality management on business performance Efficiency improvement of maintenance in company USS Košice Analysis of internal processes using colored Petri nets Evaluation of the projection company competitiveness by selected methods
<b>Ilavský Mário</b> <b>Jergová Natália</b>	Feasibility study prototype production Methods depicting of disassemble sequences and disassembled products
<b>Kavečanská Denisa</b> <b>Nosáľová Miroslava</b>	Determining the value of the company Innovation of structure project management in order to reduce risks of structural funds projects
<b>Perlakiová Sylvia</b> <b>Polák Róbert</b> <b>Sedlák Pavol</b> <b>Šima Stanislav</b> <b>Temniak Ivan</b>	Feasibility study of production of paper napkins Maintenance management case study in the company Application tool 8D Report in quality management Optimization factors in the production process by the method used Case study of customer relationship management in the company Tatry Mountain Resort
<b>Trojová Silvia</b> <b>Váradyová Katarína</b>	Implementation of reverse logistics in company Getrag Ford Optimization of process characteristics through escalation management

## PhD THESES:

### Industrial Engineering

<b>Čuchranová Jana</b>	Ergonomic design of hybrid production systems
<b>Durkáčová Michaela</b>	Effectiveness management of business processes
<b>Majský Jozef</b>	Communication in crisis management company
<b>Šesták Ján</b>	Development of modular reconfigurable manufacturing system
<b>Šusterová Monika</b>	Risk assessment methodology for innovation projects
<b>Mousstafa Aboubaker Altiaieb</b>	Design of model capacity production planning for small mechanical company
<b>Hubmann Gregor, G.</b>	Methods and techniques of financing for the non-profit sector
<b>Schölzhorn Manfred</b>	Technical outsourcing of human resources as a competitive factor

## RESEARCH AT THE DEPARTMENT

### Area of research

- Integrated designing of production systems on the physical and virtual modelling base.
- Methods and techniques of experimental modeling of in-plant manufacturing and non-manufacturing processes
- Technology to reduce the occurrence of cyanobacteria in stagnant water

## PROJECTS OF THE INSTITUTE

<b>Title of the project</b>	<b>Implementation and modification of technology to reduce the occurrence of cyanobacteria in stagnant waters</b>
<b>Type of the project</b>	OPVaV
<b>Number of the project</b>	<b>ITMS: 26220220028</b>
<b>Main solutionist</b>	prof. Ing. Dušan Šebo, PhD.
<b>Time period of the project</b>	<b>2010-2013</b>
<b>Annotation of the project</b>	Main aim of project is to apply unconventional technology to reduce eutrophication of stagnant water, contaminated mainly by cyanobacteria and lower eyelids. Project activities are focused on the modification and adaptation of patented equipment, which was researched for wastewater treatment in the previous work of the Department of Environmental and Process Control. The device is used for experimental purposes and doctoral education in environmental and industrial engineering. Expected outcomes are mainly in verification of technology, but also in new patent solutions, publicity activities and transfer of the acquired knowledge into practice.

<b>Title of the project</b>	<b>Center for research of control of technical, environmental and human risks for permanent development of production and products in mechanical engineering - Integrated designing of production systems on the physical and virtual modelling base.</b>
<b>Type of the project</b>	OPVaV
<b>Number of the project</b>	<b>ITMS: 26220120060</b>
<b>Main solutionist</b>	prof. Ing. Jozef Kováč, CSc.
<b>Time period of the project</b>	<b>2010-2013</b>
<b>Annotation of the project</b>	Integrated designing of production systems on the physical and virtual modelling base is added in specific goal 3: Designing innovation and implementation of production system, high-tech products and development of knowledge intense service for elimination the innovation project risks within formation the research excellence centre in Sjf TU of Košice. The solution has to contribute to extension the knowledge in the area of integrated designing of production systems through experimental laboratory activities supported with sophisticated high-tech technologies.
<b>Title of the project</b>	<b>Agile, adapting to market business systems with highly flexible corporate structure</b>
<b>Type of the project</b>	VEGA
<b>Number of the project</b>	<b>1/0879/13</b>
<b>Main solutionist</b>	Dr.h.c. mult. prof. Ing. Jozef Mihok, PhD.
<b>Time period of the project</b>	<b>2013-2014</b>
<b>Annotation of the project</b>	New generation production systems with groundbreaking innovations have characteristics of agile and intelligent manufacturing base. The concept of this production structure proves ability to survive and succeed in the competitive environment of continuous and unpredictable changes that may occur in turbulent markets, technologies, business relationships and in all other aspects of business. To overcome the global challenges, a new strategy of development and design based on the new perception of business models, is needed. This requires decentralized, flexible reconfigurable, modular and autonomous production systems, grouped in well cooperating logistic network of plants (subcontracting firms) and supported by innovative management techniques. In connection with expected trends, the project specializes on research and development of innovative concepts of agile, to market adapting business systems with a highly flexible structure.
<b>Title of the project</b>	<b>Proactive crisis management of industrial enterprises based on the concept of controlling</b>
<b>Type of the project</b>	VEGA
<b>Number of the project</b>	<b>1/0669/13</b>
<b>Main solutionist</b>	doc. Ing. Jaroslava Kádárová, PhD.



<b>Time period of the project</b>	<b>2013-2015</b>
<b>Annotation of the project</b>	In recent years there has been significant changes in the activities of businesses and how their management. It is caused by developments on the world market, as well as changing conditions of business environment in Slovakia. Turbulence and variability of conditions internal and external business environment calls for the modification of traditional approaches, concepts, methods, techniques and tools of corporate governance and there is a need innovative and creative management practices. Existing management approaches to penetrate advanced approaches and techniques and management process moves to proactive approaches focused on preventive measures. The project aims to propose a methodology for the identification of emerging issues in the enterprise and innovative approaches to crisis management. The methodology will build on existing methods of controlling such as BSC, DEA, ABC, BCM and others and will be adjusted to the conditions and needs of industrial companies operating in Slovakia.
<b>Title of the project</b>	<b>Methods and techniques of experimental modeling of in-plant manufacturing and non-manufacturing processes</b>
<b>Type of the project</b>	VEGA
<b>Number of the project</b>	1/0102/11
<b>Main solutionist</b>	doc.Ing. Peter Trebuňa, PhD.
<b>Time period of the project</b>	<b>2011-2014</b>
<b>Annotation of the project</b>	The project aims to put the application of methods of experimental modeling and development of new methods of investigation and analysis of internal processes, the use of new diagnostic methods for prediction of risk situations as well as further extending the possibilities for using conventional methods. The research project should increase the competitiveness of production in machinery industry, which requires a further substantial increase in educational level creative staff development, research, design in general, but also graduates of all levels of engineering study courses, to prevent adverse situations during the operation and survival of engineering companies. The above objectives should help to avert the emergence of unexpected situations such as non-productive in the manufacturing sector prior to the existence of risk. This is the main objective, if it should contribute to basic research-oriented than the proposed project in the sphere of production to the sphere of non-production management.
<b>Title of the project</b>	<b>Intensification of modeling in education of II. and III. degree in the field of study 05/02/52 Industrial Engineering</b>
<b>Type of the project</b>	KEGA
<b>Number of the project</b>	004TUKE-4/2013
<b>Main solutionist</b>	doc. Ing. Peter Trebuňa, PhD.
<b>Time period of the project</b>	<b>2013-2015</b>

<b>Annotation of the project</b>	The purpose of this project and its main objective is to increase the attractiveness of the study at the Department of Industrial Engineering 5.2.52 for both students and prospective students, but primarily for industrial practice, for which students are an essential input into the production process based on knowledge acquired during their studies, methodologies and working practices. The current corpus of the field of study has been relatively unchanged since 2004. It is accredited study program at the Faculty of Mechanical Engineering, Technical University of Kosice. To increase its attractiveness, it is necessary to review the program conceptually and upgrade its parts, especially in the second and third level of study, in particular the introduction of new current practises prevailing for the industrial practice that students can use immediately after graduation.
<b>Title of the project</b>	<b>Innovation in laboratory technology educational program of study Industrial Engineering</b>
<b>Type of the project</b>	KEGA
<b>Number of the project</b>	<b>079 TUKE-4/2013</b>
<b>Main solutionist</b>	Dr.h.c. mult. prof. Ing. Jozef Mihok, PhD.
<b>Time period of the project</b>	<b>2013-2014</b>
<b>Annotation of the project</b>	The project focuses on strengthening of laboratory teaching of technology in the field 05/02/52 Industrial Engineering study program in Industrial Engineering. It focuses mainly on the second and third cycle of higher learning to foster not only knowledge, innovative thinking and practical skills. Application of innovative training methods, particularly laboratory activities, interactive participatory design, verification and simulation of business processes and systems throughout the value chain is considered essential for the development trend of learning processes. The solution is the extension of the existing base laboratory of the Department of Industrial Engineering: new technical, computer and software resources.

## PUBLICATIONS

### Books

[1] KOVÁČ, Jozef, MIHÓK, Jozef : **Priemyselné inžinierstvo** - 1. vyd. - Košice : TU, Univerzitná knižnica - 2013. - 336 s. - ISBN 978-80-553-0806-7.

### Textbooks

[1] KOVÁČ, Jozef - ŠEBO, Juraj : **Podnikový informačný systém** - 1. vyd. - Košice : TU, SJF - 2013. - 120 s. - ISBN 978-80-553-1463-1.

### Journals

[1] TREBUŇA, Peter - FILO, Milan - PEKARČIKOVÁ, Miriam: **Supply and distribution logistics** - 1. vyd. - Ostrava. In: Amos - 2013. - 133 p. - ISBN 978-80-87691-02-

[2] TEPLICKÁ, Katarína - KÁDÁROVÁ, Jaroslava: **Effectiveness achievement of maintenance process by the controlling approach** / Katarína Teplická, Jaroslava Kádárová - 2013. In: Annals of Faculty Engineering Hunedoara - International Journal of Engineering. Vol. 11, no. 1 (2013), p. 233-236. - ISSN 1584-2665

[3] TREBUŇA, Peter - HALČINOVÁ, Jana: **Mathematical Tools of Cluster Analysis** - 2013. In: Applied Mathematics. Vol. 4, no. 5 (2013), p. 814-816. - ISSN 2152-7393  
<http://www.scirp.org/journal/am/>.

- [4] Jana Čuchranová, Ján Šesták, Marek Bureš: **Analýza rizika vzniku poškodení horních končetin metodou pro zjištění indexu zatížení**. - 2013.In: Strojírenská Technologie. Vol. 18, no. 1 (2013), p. 14-19. - ISSN 1211-4162:  
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- [5] Edita Szombathyová, Jaroslava Janeková, Andrea Krauszová: **Optimisation of Relationships in Work System** - 2013.In: Intercathedra. - 2013 No. 29/1 (2013), p. 72-75. - ISSN 1640-3622
- [6] Peter Trebuňa, Milan Fiľo: **Methods for modeling business processes** - 2013.In: Intercathedra. Vol. 29, no. 1 (2013), p. 70-73. - ISSN 1640-3622
- [7] Peter Trebuňa, Jana Halčinová: **The importance of standardization and normalization in cluster analysis** - 2013.In: Intercathedra. Vol. 29, no. 1 (2013), p. 74-77. - ISSN 1640-3622
- [8] Katarína Teplická, Jaroslava Kádárová: **Comparison of calculation methods in the formation of product pricing /** - 2013.In: Acta Technica Corviniensis: Bulletin of Engineering. Vol. 6, no. 2 (2013), s. 59-62. - ISSN 2067-3809
- [9] Peter Malega, Andrej Ješka, Michal Bartók: **Strategic planning – First step to effective management** - 2013.In: Intercathedra. No. 29/1 (2013), p. 32-36. - ISSN 1640-3622
- [10] Michaela Durkáčová, Monika Šusterová: **Proposal of company performance assessment by integration of BSC and DEA** - 2013.In: Transfer inovácií. Č. 25 (2013), s. 184-189. - ISSN 1337-7094:  
<http://www.sjf.tuke.sk/transferinovacii/pages/archiv/transfer/2-5-2013/pdf/184-189.pdf>
- [11] Monika Šusterová, Michaela Durkáčová: **Posúdenie rizík a percentuálny výpočet doby trvania projektu** - 2013.In: Transfer inovácií. Č. 25 (2013), s. 193-196. - ISSN 1337-7094:  
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- [15] Peter Trebuňa, Jana Halčinová: **Application of the mathematical statistics methods in process modeling** - 2013.In: Manažment podnikov. Roč. 3, č. 2 (2013), s. 49-52. - ISSN 1338-4104
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- [17] Jozef Mihok, Jaroslav Markovič: **Importance of planning as a core function of strategic management /** - 2013.In: Manažment podnikov. Roč. 3, č. 2 (2013), s. 57-58. - ISSN 1338-4104
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- [19] Jozef Kováč, Jana Čuchranová: **Evaluation of working postures and actions during the work task method OWAS** - 2013. In: Manažment podnikov. Roč. 3, č. 2 (2013), s. 72-74. - ISSN 1338-4104
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