





Culture of Quality

Quality and Social Responsibility

From knowledge to quality

Competition and globalization

Innovation: A key of quality in automotive industry

From knowledge to quality and safe food

Quality of life and excellence

Defining and measuring success

Management of sustainable development

ICT challenges for future society

Excellence of society organization









ISBN 978 - 86 - 86663 <u>- 82 - 5</u> 6th International **Quality Conference**

International Quality Conference 6th IQC



6. International Quality Conference



CONFERENCE MANUAL

June 8th 2012, Kragujevac Faculty of Engineering, University of Kragujevac

6. International Quality Conference **Conference manual**

ISBN: 978 - 86 - 86663 - 82 - 5

Editors:	<i>Dr Slavko Arsovski</i> , full professor Faculty of Mechanical Engineering, Kragujevac <i>Dr Miodrag Lazić</i> , full professor Faculty of Mechanical Engineering, Kragujevac <i>Dr Miladin Stefanović</i> , associate professor Faculty of Mechanical Engineering, Kragujevac
Technical Editor:	<i>Snezana Nestic</i> Faculty of Mechanical Engineering, Kragujevac
Publisher:	FACULTY OF ENGINEERING 34000 KRAGUJEVAC Sestre Janjić 6 CENTER FOR QUALITY 34000 KRAGUJEVAC Sestre Janjić 6
For publishers:	Prof. dr Miroslav Babic Prof. dr Slavko Arsovski
No. of copies:	200
Printing:	Fakultet inzenjerskih nauka, Kragujevac

Copyright © Faculty of Engineering, University of Kragujevac, 2012. Copyright © Canter for Quality, Kragujevac, 2012.

Publication of Conference manual and organization of 6. International Quality Conference is supported by: **Department of Education and Science Republic of Serbia**

Izdavanje Zbornika radova, organizovanje i održavanje 6. International Quality Conference podržalo je: *Ministarstvo prosvete i nauke Republike Srbije*

6th International Quality conference Programme Committee

- 1. Prof. dr Slavko Arsovski, Faculty of Mechanical Engineering, Kragujevac, Serbia, President
- 2. Prof. Dr. Bernhard Müller, Leibniz Institute of Ecological and Regional Development, Dresden, Germany
- 3. Prof. dr Milan Perović, Faculty of Mechanical Engineering, Podgorica, Montenegro
- 4. Prof. dr Branislav Marjanovic, University of Johanesburg, SAR
- 5. Prof. dr Goran Putnik, Univerzitet Minho, Portugal
- 6. Prof. dr Bülent Eker, Namik Kemal University, Tekirdag-Turkey
- 7. Assoc. Prof. Martí Casadesús, Universitat de Girona, Girona, Spain
- 8. Prof. Stanislav Karapetrovic, University of Alberta, Edmonton, Canada,
- 9. Assoc. Prof. Iñaki Heras, Universidad del País Vasco, San Sebastian, Spain
- 10. Miroslav Badida, Technical University of Košice, Faculty of Mechanical Engineering, Department of Environmental, Studies and Information Engineering
- 11. Prof. dr Mirko Soković, Fakultet za strojništvo Ljubljana, Slovenia
- 12. Prof. dr Ljupčo Arsov, Elektrotehnički fakultet Skoplje, FYR Macedonia
- 13. Prof. dr Zdravko Krivokapić, Faculty of Mechanical Engineering, Podgorica, Montenegro
- 14. Prof. dr Miodrag Lazić, Faculty of Mechanical Engineering, Kragujevac, Serbia
- 15. Prof. dr Janko Hodolič, Faculty of Technical Sciences, Novi Sad, Serbia
- 16. Prof. dr Miladin Stefanovic, Faculty of Mechanical Engineering, Kragujevac
- 17. Prof. dr Ayşegül Akdogan Eker, Yıldız Technical University, Mechanical Faculty, Beşiktaş/İstanbul-Turkey
- 18. Prof. dr Bülent Eker, Namık Kemal University, Tekirdağ-Turkey
- 19. Dr. Prasun Das, SQC & OR Division of the Indian Statistical Institute (ISI), Kolkata, India
- 20. Georgeta Rață, U.S.A.M.V.B. Timișoara, România
- 21. Paul M. Andre, AQE Group, Chicago, Illinois, USA
- 22. Prof. dr Ezendu Ariwa, London Metropolitan Business School, London Metropolitan University (Visiting Professor, University of Lagos, Nigeria; Visiting Professor, Gulf University, Bahrain ; Visiting Professor, Kano State Polytechnic, Nigeria; Chair, IEEE Consumer Electronics Chapter, UK&RI; Chair IEEE Broadcast Technology Chapter, UK&RI) UK

International Quality Conference

66.	Ivan Đokić, Slavko Arsovski, Snežana Pešić-Đokić QUALITY AND WORLD CLASS MANUFACTURING605
67.	Snežana Nestić, Miladin Stefanović, Aleksandar Aleksić PROCUREMENT PROCESS METRIC IN MEDIUM MANUFACTURING ORGANIZATION
68.	Marina Milanović, Milan Stamenković CONTROL CHART AND DATA MINING METHODS IN THE ANALYSIS OF PROCESS DATA619
SCI	ENTIFIC FOCUS 3
69.	Wiesław Łukasiński THE PROCESS OF THE FORMATION OF THE QUALITY OF ORGANISATION'S FUNCTIONING AND DEVELOPMENT
70.	Miladin Stefanovic, Snezana Nestic, Aleksandar Aleksic, Aleksandar Djordjevic CASE OF SUCCESSFUL IMPLEMENTATION OF MOODLE LMS IN ENGINERING EDUCATION
71.	Ljiljana Berezljev TOTAL QUALITY MANAGEMENT (ICC) IN THE EDUCATION SYSTEM – A CREATIVE APPROACH
72.	Elizabeta Mitreva THE NEED FOR PLANNING AND IMPLEMENTING EDUCATIONAL ACTIVITIES IN MACEDONIAN COMPANIES651
73.	Zoran Kalinić, Slavko Arsovski, Zora Arsovski, Vladimir Ranković, Igor Milanović, Dragana Rejman-Petrović QUALITY ASPECTS AND METRICS IN M-LEARNING INFORMATION SYSTEMS
74.	Mohaddeseh Mojtahedzadeh, Rouhollah Mojtahedzadeh THE ROLE OF ENGLISH LANGUAGE TEACHING AND LEARNING IN IRAN
75.	Koushiki Choudhury A MODEL OF QUALITY IN THE EDUCATION SERVICE SECTOR: AN APPLICATION OF TOPSIS
76.	Tudor Pendiuc WAYS OF INCREASING THE EFFICIENCY OF QUALITY MANAGEMENT IN THE COMMERCIAL COMPANIES UNDER THE AUTHORITY OF THE ROMANIAN LOCAL COUNCIL IN THE POST-ACCESSION PERIOD TO THE EUROPEAN MARKET

Miladin Stefanovic¹⁾ Snezana Nestic¹⁾ Aleksandar Aleksic¹⁾ Aleksandar Djordjevic¹⁾

1) Faculty of Engineering, University of Kragujevac, Serbia, {miladin, s.nestic, aaleksic, }@kg.ac.rs oadjordjevic@vahoo.com

CASE OF SUCCESSFUL IMPLEMENTATION OF MOODLE LMS IN ENGINERING EDUCATION

Abstract: The most common LMS platforms (such as Moodle) have the main task to enable easy development, organization, presentation and usage of course for both teachers and students. In this paper we will present sucesful implementation of Moodle LMS in engineering education at Faculty of engineering University of Kragujevac.

Keywords: LMS, traditional learning, blended learning

1. INTRODUCTION

Much attention has been given recently to modern education. A leading idea to all educators was given in [1]: "Educators must have an open attitude towards new technologies. They should sensibly incorporate new technological development to avoid the risk of teaching the students of today, how to solve the problems of tomorrow, with the tools from vesterday." Information and Communication Technologies (ICTs) have changed the conception of the teaching process both in the classroom and in the theoretical teaching approaches. The Internet provides a new environment for developing a variety of applications for educational and research purposes. From the educational perspective, it is an enabling technology for the Internet based education and active learning. From the industrial perspective, it is a competitive service for remote measurement, supervision, diagnosis, and control. From the information and communication technology (ICT) perspective, it is a challenging application that pushes research into the web services and communication systems. The web enables more flexible delivery (anytime), distance education (anyplace), new visualization (interactivity), possibilities and cost reduction. The Internet (web) has become a widespread tool for teaching and learning. In different fields of education the Internet and web technology have increasingly important roles, especially in the concepts of e-learning. This issue was a topic of a large number of research articles [2, 3, 4, 5, 6]. Both developed and developing countries have been using elearning concept in order to improve rather that replace traditional learning approaches. One of the most common tools for e-learning is LMS (Learning Management Systems). The most common LMS platforms (such as Moodle) have the main task to enable easy development, organization, presentation and usage of course for both teachers and students. These systems rely on intensive usage of information systems and Internet.

This paper will address the number of important issues: The implementation, usage of LMS Moodle system on Bachelor level education at Universities in Serbia. The key issues, implementation of LMS as support to University study program, development of LMS course and educational results of blended learning environment at University of Kragujevac will be presented. CIP - Каталогизација у публикацији Народна библиотека Србије, Београд

005.6(082)

INTERNATIONAL Quality Conference (6 ; 2012 ; Kragujevac)

Conference Manual / 6. International Quality Conference, June 8th 2012, Kragujevac ; [organized by] Faculty of Engineering, University of Kragujevac ; [editors Slavko Arsovski, Miodrag Lazić, Miladin Stefanović]. - Kragujevac : Faculty of Engineering, Center for Quality, 2012 (Kragujevac : Fakultet inženjerskih nauka). - XVII, 988 str. : ilustr. ; 27 cm

Tekst štampan dvostubačno. - Tiraž 200. -Str. V: [Preface] / Slavko Arsovski. -Napomene i bibliografske reference uz tekst. - Bibliografija uz svaki rad.

ISBN 978-86-86663-82-5 1. Faculty of Engineering (Kragujevac) а) Менаџмент тоталним квалитетом - Зборници COBISS.SR-ID 191073036