



**UNIVERSITY OF ZENICA**  
Faculty of Mechanical Engineering  
Bosnia and Herzegovina



**UNIVERSITY MOSTAR**  
Faculty of Mechanical  
Engineering, Computing and  
Electrical Engineering  
(Bosnia and Herzegovina)



**UNIVERSITY DICLE**  
FACULTY OF ENGINEERING  
(Turkiye)

**QUALITY ASSOCIATION**  
of Bosnia and Herzegovina



**AGENCY FOR DEVELOPMENT OF  
HIGHER EDUCATION AND QUALITY  
ASSURANCE OF B&H**

**INSTITUT ZA PRIVREDNI  
INŽINJERNG d.o.o. Zenica**



# **13<sup>th</sup> Research/Expert Conference with International Participation**



# **QUALITY 2023**

## **Final Program**

**June 19<sup>th</sup> - 21<sup>th</sup>, 2023.  
Hotel SUNCE, Neum  
Neum - Bosnia and Herzegovina**

**UNDER THE AUSPICES OF:**  
**Government of the Federation of Bosnia and Herzegovina**  
**Federal Ministry of Energy, Mining and Industry**  
**Federal Ministry of Development, Entrepreneurship and Crafts**  
**Federal Ministry of Education and Science**  
**Government of the Zenica–Doboj Canton**

SPONZOR



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- Dr Elvir Zlomušica (B&H)
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# PROGRAM COMMITTEE

- Nermin Nikšić, Premijer Vlade Federacije B&H,
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- Dr. Natalija Trivić, Ministar prosvete i kulture u Vladi Republike Srpske
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- Slavko Kovačević, dipl. fizičar- ODP „ORAO“, Bijeljina,
- Dr. Fuad Klisura, IPI d.o.o., Zenica
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- Goran Trifković, Institut za intelektualno vlasništvo Bosne i Hercegovine,
- Mr. Zijad Džemić, Institut za mjeriteljstvo BiH,
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- Marko Šantić, Privredna komora FbiH,
- Mirsad Jašarspahić, dipl.inž. PK FBiH,
- Mr. Dijana Babić, PK ZE-DO Kantona
- Mr. Suad Huskić, Načelnik Općine Tešanj

## TEMATIKA SKUPA

Naučno stručni skup će raditi na slijedeći način: plenarna sjednica (uvodni i pozivni radovi za globalne teme) i simpozij (radovi po temama skupa) te **PANEL na temu : IZAZOVI U REALIZACIJI PREPORUKA ENQA PANELA**. Obavještavaju se svi potencijalni autori da mogu pripremiti radove iz slijedećih tematskih oblasti:

### 1. KVALITET U PRIVREDI

Upravljanje kvalitetom (koncept, principi, alati I filozofija); Mjerenje karakteristika kvaliteta sistema i procesa; Metrologija; Kvalitet proizvoda i procesa; Kvalitet u održavanju; Upravljanje lancem snabdijevanja; Kvalitet i zaštita okoline; Inženjering kvaliteta; Ekonomika kvaliteta; Industrija 4.0; Upravljanje rizicima; Troškovi kvaliteta i upravljanje troškovima kvaliteta. Poslovna izvrsnost

### 2. KVALITET U OBRAZOVANJU I NAUCI

Pedagoški standardi i norme; Metode i postupci provjere i praćenja znanja studenata (učenika); Metode i postupci ocjenjivanja kvaliteta nastavnog osoblja; Samoevaluacija institucija u obrazovanju; Bolonjski proces; Akreditacija i certifikacija nastavnih programa i institucija; Zakonska regulativa u području obrazovanja; Akreditacija u visokom obrazovanju. Nezavisnost QA agencije. Digitalizacija i hibridna akreditacija. Osiguranje kvaliteta Joint Study programa

### 3. KVALITET U JAVNOM SEKTORU

Kvalitet u javnoj upravi; Kvalitet u zdravstvu; Kvalitet u komunalnim preduzećima; Kvalitet u poljoprivredi; Kvalitet u proizvodnji hrane; Saobraćaj i kvalitet, Aspekti kvaliteta u procesu pridruživanja BiH EU; Kvalitet u politici; Kvalitet u medijima; Kvalitet u turizmu

### 4. STANDARDI I SISTEMI UPRAVLJANJA

Međunarodni standardi ISO 9000 - Sistemi upravljanja kvalitetom, Međunarodni standardi ISO 14000 - Sistemi okolinskog upravljanja; Međunarodni standardi ISO 45000 - Obezbeđenje zdravlja i sigurnosti; HACCP, ISO 16949, ISO 22000-Upravljanje sigurnošću hrane, ISO 27000-Zaštita informacija, ISO 26000-društvena odgovornost, ISO 50000 -Upravljanje energijom; Stanje i trendovi u razvoju standarda. Informacioni sistemi kvaliteta; Međunarodne nagrade kvaliteta; Standardizacija; Državni program kvaliteta; Modeli TQM-a i njegova evolucija; Integrisani sistemi kvaliteta

## PREZENTACIJE

**Prezentacije** su ograničene na **10 minuta + 5 minuta** za diskusiju.

Autori-prezentatori za prezentacije mogu koristiti Power point aplikaciju.

## VRIJEME I MJESTO ODRŽAVANJA SKUPA

Skup će se održati od 19. do 21. juna 2023. godine u Hotelu SUNCE u Neumu - BiH.

Hotel SUNCE nalazi se u Neumu, gradiću smještenom na području turističke regije južnog Jadrana i jedinog izlaza Bosne i Hercegovine na more, mjesta posebnog mediteranskog ugođaja i šarma. Sam hotel smješten je u mirnoj uvali blizu obali mora, mjesto je posebnog primorskog ugođaja i raznih ugostiteljsko turističkih privlačnosti.

## CONFERENCE TOPICS

The Research/Expert Conference will be performed as follows: plenary session (Key papers concerned global topics) and symposium (papers according to the conference topics) and **PANEL on the topic: CHALLENGES IN THE IMPLEMENTATION OF ENQA PANEL RECOMMENDATIONS**. We would like to inform all the potential authors to prepare papers in the following topics:

### 1. QUALITY IN BUSINESS

Quality management (Concept, Principles, Tools and Philosophies); System and Process Performance Measurements; Metrology; Quality of product and process; Quality in maintenance; Supply chain management; Environment protection quality; Quality Engineering; Quality Economics; Risk Control; Business Excellence

### 2. QUALITY IN EDUCATION AND SCIENCE

Pedagogical standards and norms; Methods and procedures for control and monitoring of student achievements; Methods and procedures of educational staff quality control; Educational institutions self-evaluation; The Bologna process; Accreditation and certification of educational programs and institutions; Legislation in the education; Accreditation in Higher Education. Independence of the QA agency. Digitization and hybrid accreditation. Quality assurance of the Joint Study program.

### 3. QUALITY IN PUBLIC SECTOR

Quality in public institutions; Quality in health institutions; Quality in community enterprises; Quality in Agriculture; Quality in Food Processing Industry; Aspect of Quality in Process Accession BiH in EU; Quality in politics; The quality of the media; Quality in Tourism

### 4. STANDARDS AND MANAGEMENT SYSTEMS

International standards ISO 9000 - Quality Management System; International standards ISO 14000 - Environmental Management System; International standards ISO 45000 - Occupational Health and Safety; ISO 16949-Automotive quality management systems, ISO 22000-Food safety management system, ISO 27000-Information security management standards, ISO 26000-Social Responsibility, ISO 50000 - Energy Management system; Status and trends in the development of standards; Quality information systems; Quality awards; Standardization; National quality programs; TQM models and their evaluation; Integrated quality systems

## PAPER PRESENTATION

**Presentation** is limited to **10 minutes + 5 minutes** for discussion.

Presenters can use PowerPoint slide shows.

## CONFERENCE DATE AND VENUE

# The conference will be held from 19<sup>th</sup> to 21<sup>th</sup> June 2021 at the Hotel "SUNCE", Neum, Bosnia and Herzegovina.

Hotel SUNCE is situated in Neum, little mediterranean town on the southern coast of the Adriatic Sea, at the outskirts of the pearl of medieval architecture, the town of Dubrovnik. Neum is the only town in Bosnia and Herzegovina which has sea exit and it is a town of special mediterranean ambient and charm.

## KOTIZACIJA - CONFERENCE FEE

Kotizacija za autore i učesnike Skupa je 150,00 EURO (300 KM) (uključujući i članove naučnog odbora i predsjedavajuće sekcija). Kotizacija obuhvata: zbornik radova sa skupa sa pratećim materijalima, prisustvo svim sekcijama i prezentacijama, osvježenje i piće dobrodošlice.

The conference fee for authors and participants is 150,00 EUR (including members of the Scientific Committee, and session chairmen). The conference fee includes the following: a copy of conference proceedings and accompanying materials, admission to all sessions and presentations, refreshments, and welcome drink. The conference fee should be sent to:

**Receiver: ASA banka d.d.Sarajevo, Poslovnica Zenica**  
**Adress: Trg Bosne i Hercegovine 1, 72000 Zenica, BiH**  
**(Bank Identifikation Numer-BIC) :SWIFT Code: IKBZBA2XXXX**

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**ZDK Ministry of Finance, University of Zenica, Fakultetska 3, 72000 Zenica**  
**WAT:4218353660004**  
**IBAN : BA39 134 007 130 001 2018**  
**Note: projekat Mašinski fakultet-Quality 2023**  
**Details of Charges:OUR**

**Correspondente bank (for EUR):**  
**Privredna banka Zagreb d.d.Zagreb/Croatia**  
**Swift:PBZGHR2XXXX**

**Note: Transfer for ZDK Ministry of Finance, University of Zenica ,**  
**WAT 4218353660004**

sa naznakom: Kotizacija za QUALITY 2023, ime i prezime)

**Učesnici i autori iz Bosne i Hercegovine svoje kotizacije mogu uplatiti na sljedeći račun (300,00 KM):**

**SVRHA UPLATE:** kotizacija za MNSK-QUALITY 2023

**(na uplatnici navesti ime i prezime, Kotizacija)**

**PRIMALAC:** JRT TREZOR ZENIČKO-DOBOJSKOG KANTONA

(Račun otvoren kod ASA banke d.d.Sarajevo)

**RAČUN PRIMAOCA:** 134010000001672

**JIB UPLATIOCA: (za firme ID broj)**

**VRSTA PRIHODA:** 722631

**OPĆINA:** 103

**BUDŽETSKA ORGANIZACIJA:**2204010

**POZIV NA BROJ:** 4390040101 (Molimo da se poziv na broj obavezno upiše prilikom popunjavanja naloga).

## KORESPONDENCIJA - CORRESPONDENCE

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Dr. Safet Brdarević  
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emir.djulic@unze.ba

## SMJEŠTAJ - ACCOMMODATION

Dear Colleague(s),  
Organizing Committee want to inform all possible participants and passengers to Neum, that **GLOBAL TRAVEL & EVENTS** travel agency is offering them following hotels for accommodation: „HOTEL SUNCE“ Neum

All reservation as well as additional information can be found on:  
<http://www.globaltravel.ba/>  
e-mail: [ekskurzije@globaltravel.ba](mailto:ekskurzije@globaltravel.ba)  
tel: +387 33 203-748  
+387 61 713 392



### CITY NEUM



### HOTEL SUNCE

# SCHEDULE OF EVENTS

## **PONEDJELJAK - MONDAY June 19<sup>th</sup>**

18.00 – 20.00 Registracija učesnika i piće dobrodošlice  
Registration and Welcome Drink

## **UTORAK - TUESDAY June 20<sup>th</sup>**

08.45 – 09.45 Registracija učesnika  
Registration of Conference Participant

09.50 – 10.00 Otvaranje Skupa - Conference Opening

10.00 – 11.00 Uvodni referati - Keynote Paper Presentation

11.00 – 11.30 Kafe pauza - Coffee Break

11.30 – 13.00 Prezentacija radova u dvije paralelne sekcije  
Two Parallel Sessions of Presentations

13.00 – 15.00 Pauza - Break

15.00 – 16.30 Prezentacija radova u dvije paralelne sekcije  
Two Parallel Sessions of Presentations

16.30 – 17.00 Kafe pauza - Coffee Break

17.00 – 19.30 **PANEL: IZAZOVI U REALIZACIJI PREPORUKA ENQA PANELA.**  
**PANEL: CHALLENGES IN THE IMPLEMENTATION OF ENQA**  
**PANELE RECOMMENDATIONS**  
Prezentacija radova + Diskusija  
Paper Presentations + Discussion

## **SRIJEDA - WEDNESDAY June 21<sup>th</sup>**

09.30 – 12.30 Prezentacija radova u dvije paralelne sekcije  
Two Parallel Sessions of Presentations



# SCHEDULE OF PAPER PRESENTATIONS

## UTORAK - TUESDAY, June 20<sup>th</sup>

09.50 – 10.00 Otvaranje Skupa - Conference opening

10.00 – 11.00 Uvodni referati - Keynote Paper Presentation

Chairmen: S. Brdarević, N. Zaimović-Uzunović, D.Šaravanja, B.Muhamedbegović

1. Upravljanje rizicima u akreditovanim laboratorijama  
Risk Management in Accredited Laboratories  
*Fakić Belma, Muminović Branka (B&H)*
2. Unaprijeđenje poslovanja zasnovano na upravljanju rizicima – studija slučaja Pomorski fakultet Kotor  
Business Improvement Based on Risk Management - Case Study of Faculty of Maritime Studies Kotor  
*Cvrk Sead, Kapetanović Vera, Petrović Igor, Dlabač Tatijana, Ivošević Špiro (Montenegro)*
3. Automation of product control in the automotive industry with quality assurance  
*Osmanović Almir, Ilijazović Ina\*, Trakić Elvedin, Čosić Salko, Bečirović Mirza (B&H, \*Germany)*

## UTORAK - TUESDAY, June 20<sup>th</sup>

11.30 – 13.00 SESSION I

Chairmen: I.Plančić; A. Imamović

1. Stanje primjene proizvodnih koncepata u poslovnim sistemima drvoprerađivačke industrije u FBiH  
State of Application of Production Concepts in the Production Systems of the Wood Processing Industry in FBiH  
*Đulić Emir (B&H)*
2. Istraživanje uticaja unosa toplote na kvalitet spojeva pri pulsnom MAG zavarivanju u nadglavnoj poziciji  
Research on Welding Parameters Influence on Quality of Pulsed GMAW Welds in Overhead Position  
*Tasić Petar, Softić Almira, Hajro Ismar (B&H)*
3. Istraživanje hrapavosti obrađene površine pri MQL obradi čelika Č.1530  
Surface Roughness Investigation on Č.1530 Steel During MQL Machining  
*Begović Edin, Plančić Ibrahim, Ekinović Sabahudin, Mujanović Ramiza (B&H)*

4. Analiza uticaja parametara obrade i vibracija na kvalitet obrađene površine pri čeonom glodanju tanke ploče od aluminijuma  
Analysis of Influence of Processing Parameters and Vibrations on Surface Quality During Face Milling of Thin Aluminum Plates  
**Karić Amel, Jašarević Arnel (B&H)**
5. Specifičnosti i uticajni parametrima kvalitet izradaka pri inkrementalnom oblikovanju lima primjenom robota  
Characteristics and Influential Parameters on the Quality of Products Made By Roboforming Technology  
**Plančić Ibrahim, Čabaravdić Malik, Begović Edin**
6. Kvalitet vruće valjanih ploča od legiranih vatrootpornih čelika 10CrMo9-10 i X11CrMo5  
Quality of Hot Rolled Plates from Alloyed Fire Resistant Steel 10CrMo9-10 and X11CrMo5  
**Imamović Aida, Oruč Mirsada, Rimac Milan, Kosec Gorazd\*, Sunulahpašić Raza, Talić-Čikmiš Amra (B&H, \*Slovenia)**
7. Utjecaj brzine miješanja medija za hlađenje na kvalitet mikrostrukture i tvrdoće  
The Influence of the Mixing Speed of the Quenching Media on the Quality of the Microstructure and Hardness  
**Gigović-Gekić Almajda, Avdušinović Hasan, Muminović Branka, Hodžić Amna (B&H)**
8. Quality Control in Textile: An Attribute Agreement Analysis  
**Karaçizmeli İzzettin Hakan (Turkiye)**
9. Comparison of FMEA and Fine Kinney Methods for Risk Analysis in Textile Manufacturing  
**Karaçizmeli İzzettin Hakan (Turkiye)**

**UTORAK - TUESDAY, June 20<sup>th</sup>**

**11.30 – 13.00 SESSION II**

**Chairmen: D. Petković; N. Buzadžija; Softić A.**

1. Analiza stanja publikovanih naučnih radova i univerziteta iz BiH korištenjem SJR SCIMAGO I WEBOMETRICS baza podataka  
Analysis Of Published Scientific Articles And Universities from Bosnia and Herzegovina Using SJR SCIMAGO and WEBMATRICS Databases  
**Džajić-Valjevac Melina, Petković Darko (B&H)**
2. Osiguranje kvaliteta i sigurnosti podataka za digitalne certifikate u visokom obrazovanju  
Ensuring Data Quality and Security for Digital Diploma Certificates in Higher Education  
**Čeke Denis, Kunosić Suad, Buzadžija Nevzudin (B&H)**

3. Autonomija sveučilišta i izgradnja okvira za osiguranje kvalitete u sustavu visokog obrazovanja u Bosni i Hercegovini  
University Autonomy and Building of the Framework for Quality Assurance in Higher Education System in Bosnia and Herzegovina  
**Brkić Marko-Antonio (B&H)**
4. Značaj angažovanih intelektualaca za unapređenje kvaliteta obrazovanja  
The Importance of Engaged Intellectuals for the Improvement of the Quality of Education  
**Vejnović Duško, Vilotić Stefan\* (B&H, \*Serbia)**
5. Značaj razvoja kompleksnih modela rangiranja visokoškolskih ustanova u Republici Srpskoj  
The Importance of Development a Complex Model of Ranking Higher Education Institutions in the Republic of Srpska  
**Petković Darko, Vojvodić Biljana, Radmanović Duška, Radaković Tatjana (B&H)**
6. Model organizacije dualnog sistema obrazovanja – iskustva prve generacije studija Dizajn i tehnologije u drvoprerađi  
Model of Organization of Dual Education System – The Experiences of the First Generation of Study Design and Technology in Wood Processing  
**Petković Darko, Đulić Emir, Lihčić Adnan, Buljubašić Haris (B&H)**
7. Osnovne lingvističke karakteristike tehničkog teksta mašinske struke pisanog na engleskom jeziku  
Some of the Basic Linguistic Characteristics of Mechanical Engineering Texts Written in English  
**Tarabar Aida (B&H)**
8. Uloga CLIL-a u obezbjeđenju kvaliteta nastave engleskog jezika na tehničkim fakultetima  
The Role of CLIL in English Language Quality Assurance at Technical Faculties  
**Tarabar Aida (B&H)**

**UTORAK - TUESDAY, June 20<sup>th</sup>**

**15.00 – 16.30 SESSION I**

**Chairmen: N. Zaimović-Uzunović; F. Klisura**

1. Proces konstrukcije i inspekcije proizvoda pomoću Solidworks Inspection modula  
Product Construction and Inspection Procedure Using Solidworks Inspection Module  
**Bešliagić Ernad, Varda Kenan, Zaimović-Uzunović Nermina, Neslanović Zakir (B&H)**

2. Design of the Grip and the Specimen for Tensile Testing of 3D Printed Materials  
*Kačmarčik Josip, Žiga Alma, Hadžalić Mustafa, Radojičić Sara\* (B&H, \*Croatia)*
3. Influence of Crack-Depth Ratio in a Thick-Walled Pressure Vessel on Stress Intensity Factor for Different Support Conditions  
*Vukojević Nedjeljko, Bajtarević-Jeleč Amna, Mizdrak Vedran (B&H)*
4. Ocjena kvaliteta mineralnog dodatka za cement dobivenog kalcinacijom gline iz ležišta „Klokoti“ Busovača  
Quality Assessment of Cement Mineral Addition Obtained by Calcination the Clay From „Klokoti“ Busovača Deposit  
*Mujkanović Adnan, Jovanović Marina, Merdić Nevzet, Bušatlić Nadira, Zahirović Amel, Čaušević Amina (B&H)*
5. Assessing the Potential Effects of Mining Operations at Rupice Mine on the Water Quality and Ecological State of the Bukovica River: An Empirical Investigation  
*Zanović Danira, Mahmutović Vildana, Taletović Nermin, Oruč Esad, Prajo Goran (B&H)*
6. Primjena informacionog sistema u održavanju u kompaniji Termoflux d.o.o. Jajce  
Application of the Information System in Maintenance in the Company Termoflux D.O.O. Jajce  
*Jašarević Sabahudin, Čabaravdić Emina, Bičo Sanel (B&H)*
7. Primjeri kvarova deformacijom metalnih konstrukcija na industrijskim postrojenjima  
Examples of Failures Due to Deformation of Metal Structures in Industrial Plants  
*Uzunović Faik (B&H)*
8. Neusklađenost zakonske regulative i njen utjecaj na oblast tehničkih pregleda vozila u BiH  
Some Incompliance with Influential Legal Regulations in the Field of Technical Vehicle Inspections in Bosnia and Herzegovina  
*Mustafić Ibrahim, Agić Dragana, Klisura Fuad (B&H)*

**UTORAK - TUESDAY, June 20<sup>th</sup>**

**15.00 – 16.30 SESSION II**

**Chairmen: N. Buzadžija; S. Jašarević**

1. Vještačka inteligencija u visokom obrazovanju  
Artificial Intelligence in Higher Education  
*Redžibašić Muharem, Jašarević Sabahudin (B&H)*

2. The (Mis)Use Of Openai's CHATGPT as a Novel Communication Tool in Higher Education and The Imperative for a Paradigm Shift in Student Assessment  
*Šehanović Senija, Džabegović Emir, Stančić Sonja (B&H)*
3. Application of Artificial Intelligence in Marketing  
Primjena umjetne inteligencije u marketingu  
*Isaković Kanita, Isaković Ajdin (B&H)*
4. Poređenje edge i cloud računarstva za mašinsko učenje u proizvodnim procesima  
Comparison of Edge and Cloud Computing for Machine Learning in Production Processes  
*Arifović Kemal, Lemeš Samir (B&H)*
5. Sociološki aspekti vještačke inteligencije  
Sociological Aspects of Artificial Intelligence  
*Kozić Faruk (B&H)*
6. Poboljšanje angažmana studenata u nastavi iz statike korištenjem jednostavnih modela  
Improving Student Engagement in Statics Classes Using Simple Models  
*Žiga Alma, Kačmarčik Josip (B&H)*
7. Uticaj neformalnog obrazovanja na uspjeh studenata softverskog inženjerstva  
The Influence of Informal Education on the Success of Software Engineering Students  
*Buzadžija Nevzudin, Čeke Denis (B&H)*
8. Mogućnosti inovacije u nastavi matematike korištenjem elemenata teorije grafova  
Possibilities of Innovation in Teaching Mathematics Using the Elements of Graph Theory  
*Huskanović Almir, Alajbegović Hermina (B&H)*

**UTORAK - TUESDAY, June 20<sup>th</sup>**

**17.00 – 19.30 PANEL**

**Chairmen: Zaimović Uzunović N.; Bašić H.; Muhamedbegović B.;**

1. Enhancing Independence of Quality Assurance Agencies in Western Balkan  
*Milas Maja (Slovenia)*
2. Uloga radnog opterećenja studenata u osiguravanju kvaliteta učenja  
The Role of Student Workload in Ensuring Learning Quality  
*Zenunović Damir, Herić Mensur (B&H)*
3. Izazovi integracije bosanko-hercegovačkog visokog školstva u evropski prostor visokog obrazovanja  
Challenges of Integration of Bosnia and Herzegovina Higher Education in the European Higher Education Area  
*Muhić Haris, Bašić Hazim, Softić Almira, Memić Haris(B&H)*

4. Uticaj studentske ankete na kvalitet nastavnog procesa- ciljevi i praksa  
The Influence of the Student Survey on the Quality of the  
Teaching Process - Goals and Practice  
*Zaimović-Uzunović Nermina (B&H)*

**SRIJEDA - WEDNESDAY, June 21<sup>th</sup>**

**09.30 – 12.30 SESSION I**

**Chairmen: Bašić H.; Isaković S.; Zaimović Uzunović N.**

1. Primjena digitalizacije alata kvaliteta u proizvodnji filtera u kompaniji MANN+HUMMEL BA  
Digitization of Quality Tools in the Production of Filters in the Mann+Hummel Ba Company  
*Hadžikadunić Mediha, Softić Almira, Bašić Hazim, Zaimović- Uzunović Nermina (B&H)*
2. Analiza mjernog sistema kao alat za osiguranje kvaliteta procesa proizvodnje u kompaniji MANN+HUMMEL BA  
Measurement System Analysis as a Tool for Quality Assurance of the Production Process of MANN+HUMMEL BA  
*Sadiković Ajdin, Softić Almira, Bašić Hazim, Varda Kenan (B&H)*
3. Uticaj stabilnosti i (ne)homogenosti kao doprinosa mjernoj nesigurnosti kod kalibracije klimatskih komora – inkubatora  
The Influence of Stability and (In)Homogeneity as a Contribution to Measurement Uncertainty in the Calibration of Climate Chambers – Incubators  
*Šabanović Melisa, Jarović-Bajramović Narcisa (B&H)*
4. Ocjena usklađenosti u oblasti zakonskog mjeriteljstva na osnovu rezultata kalibracije  
Conformity assessment in the field of legal metrology based on calibration results  
*Memić Haris, Bošnjaković Alen, Džemić Zijad, Softić Almira (B&H)*
5. Motion Analysis Of Whitworth Quick Return Mechanism  
*Mešeljević Lamija, Imamović Mustafa, Hadžikadunić Fuad (B&H)*
6. Neophodnost akreditacije medicinskih laboratorija  
The Necessity of Medical Laboratories Accreditation  
*Brdarević Fikret, Arnaut Dino, Hodžić Harun (B&H)*
7. Istraživanje vrijednosnih koeficijenata u preradi drveta  
Research of Valuable Factors in Wood Processing  
*Hasanić Sanin, Lisica Alan (B&H)*

8. Poređenje integriranih sistema kvaliteta ISO 9001:2015 i SKG-IKOB u proizvodnji građevinske stolarije  
Comparison of Integrated Quality Systems ISO 9001:2015 and SKG-IKOB in the Production of Construction Joinery  
**Hazić Faris (B&H)**
9. Management of The Risks Processes in Projects According to ISO 10006:2017  
Upravljanje procesima rizika u projektima prema smjernicama ISO 10006:2017  
**Babić Emir, Jašarević Sabahudin (B&H)**
10. Uticaj rutina iz ekstrakata lista, cvijeta i ploda maline (*Rubus idaeus* L.) na koroziju bakru u 3% NaCl  
Influence of the Rutin From Extract of Leaves, Flowers and Fruits of Raspberry (*Rubus Idaeus* L.) on the Corrosion of Copper in 3% NaCl  
**Kasapović Dejana, Bikić Farzet (B&H)**
11. Upravljanje lancima opskrbe – nova paradigma  
Supply Chain Management – A New Paradigm  
**Drljača Miroslav (Croatia)**
12. Electronic Services in Freight Transport and Quality  
**Sučeska Suad (B&H)**
13. Metodološki okvir za izračunavanje klizne skale usklađene sa zakonom o javnim nabavkama Bosne i Hercegovine  
Methodological Framework for Calculating the Sliding Scale, Harmonized with the Law on Public Procurement of Bosnia and Herzegovina  
**Isaković Suvad (B&H)**
14. Kvalitet infrastrukture za biciklistički saobraćaj u gradu Zenici  
Cycling Infrastructure Quality in the City of Zenica  
**Mikuš Matea, Lemeš Samir (B&H)**
15. Analiza distribucije napona kod savijanja u slojevima drveta primjenom numeričke simulacije  
Analysis of stress distribution during bending in wood layers using numerical simulation  
**Hurem Nedim, Talić-Čikmiš Amra, Imamović Aida (B&H)**

**SRIJEDA - WEDNESDAY, June 21<sup>th</sup>**

**09.30 – 12.30 SESSION I**

**Chairmen: Imamović M.; Berberović E.; Imamović N.**

1. Značaj i uloga visokog obrazovanja Kantona Sarajevo u održivoj vodnoj infrastrukturi  
The Significance and Role of Higher Education of the Canton of Sarajevo in a Sustainable Water Infrastructure  
**Čelan Daliborka, Bašić Hazim (B&H)**

2. TIMSS 2019: Razlike u postignućima učenika u matematici u ruralnim i urbanim školskim sredinama u Bosni i Hercegovini  
TIMSS 2019: Differences in Student Achievements in Mathematics in Rural and Urban School Environments in Bosnia and Herzegovina  
***Bikić Naida, Kurtić Vehid, Buzadžija Nevzudin (B&H)***
3. Zaštita ličnih podataka djece u evropskoj uniji  
Protection of Children`s Personal Data in the European Union  
***Fetić Derviša, Imamović Emina (B&H)***
4. Rad na visini, standardi i mjere zaštite  
Work at Height, Standards and Protection Measures  
***Imamović Mustafa, Imamović Ernis (B&H)***
5. Uticaj boja u radnim prostorijama sa aspekta sigurnosti na radu  
The Influence of Colors in Workplaces from the Aspect of Safety at Work  
***Imamović Mustafa, Bajrić Senaid (B&H)***
6. Mjere zaštite kod primjene transportnog sistema dizel lokomotivom „Scharf“ sa gornjom šinom  
Protection Measures when Using Transportation System with Diesel Locomotive "Scharf" with Upper Rail  
***Bajramović Kasim (B&H)***
7. Organizacija montaže hidromehaničke opreme na mini hidroelektrani  
Organization of Installation of Hydromechanical Equipment at the Mini Hydroelectric Plant  
***Dulić Emir, Neimarlija Amer, Patković Mihnet (B&H)***
8. Definisane međuzavisnosti parametara procesa prečišćavanja otpadnih voda u industriji celuloze i papira  
Defining the Interdependence of Waste Water Treatment Process Parameters in the Pulp and Paper Industry  
***Birdahić Vehid, Imamović Nusret, Čamić Armina (B&H)***
9. Uzorkovanje, snimanje i proračun zapremine odloženih materijala na odlagalištu industrijskog otpada „Rača“  
Sampling, Recording and Calculation of the Volume of Disposed Materials at The „Rača“ Industrial Waste Landfill  
***Prčanović H., Duraković M., Beganović S., Birdahić V., Šišić M. (B&H)***
10. Implementacija sistema upravljanja energijom ISO 50 001 in B&H  
***Kadušić Emina, Imamović Nusret (B&H)***
11. ESCO Model in Function of Energy Efficiency (EE)  
ECSCO model u funkciji energijske efikasnosti (EE)  
***Bijedić Almir, Imamović Nusret, Husika Azrudin (B&H)***



12. Zeleni program ka klimatskoj neutralnosti i osvrt na globalnom nivou  
Green Agenda for Climate Neutrality and a Review at the Global Level  
**Berberović Edin (B&H)**
13. Rezultati politike upravljanja okolišem TE „Kakanj“  
Results of the Environmental Management Policy in TE "Kakanj"  
**Neimarlija Amer, Đulić Emir (B&H)**
14. Statička analiza pravougaonih armirano–betonskih ploča sa zategama  
Static Analysis of Rectangular Reinforced Concrete Slabs with Tie Rods  
**Redžić Nermin, Redžić Vahid, Đulić Emir (B&H)**



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