

I. Opšti podaci o konkursu za izbor u akademska zvanja			
Datum raspisivanja konkursa	petak, 1. novembar 2024.	Naziv dnevnog lista	EuroBlic
URL konkursa: Konkurs za izbor/napredovanje akademskog kadra IBU			
Broj prijavljenih kandidata je 1, za poziciju broj 1 prema ovom konkursu, kako slijedi: 1. Jasna Hivziefendić , 04.11.2024.godine.			
Datum i broj odluke Vijeća Fakulteta za inženjering, prirodne i medicinske nauke Internacionalnog Burč univerziteta o imenovanju Komisije za pripremanje prijedloga za izbor u akademsko zvanje (u daljem tekstu: Komisija) redovnog profesora za oblast <i>Elektroenergetika i automatika</i> na pomenutom fakultetu.			Broj: 04-191-1/24 U Sarajevu, 20.11.2024.
Komisija se nalazi u sljedećem sastavu		Prof.dr. Izudin Kapetanović, predsjednik komisije Prof.dr. Tatjana Konjić, član komisije Prof.dr. Slobodan Lubura, član komisije	

II. Biografski podaci kandidata/kandidatkinje			
Ime i prezime	Jasna Hivziefendić	Akademska titula	Vanredni profesor
Adresa e-pošte	jasna.hivziefendic@ibu.edu.ba	Državljanstvo	BiH
Obrazovanje (svi ciklusi)	1. Bachelor Elektrotehnike , Fakultet elektrotehnike i mašinstva Univerziteta u Tuzli (1991-1997) 2. Magistar elektrotehnike , Fakultet za elektrotehniku, Univerziteta u Tuzli (1999-2004) 3. Doktor elektrotehnike , Fakultet za elektrotehniku, Univerziteta u Tuzli (2011-2014)		
Zaposlen u	Internacionalni Burč univerzitet		

Jasna Hivziefendić (u daljem tekstu: Kandidat) je podnio prijavu za redovni izbor u akademsko zvanje redovnog profesora za oblast *Elektroenergetika i automatika* na Fakultetu za inženjering, prirodne i medicinske nauke Internacionalnog Burč univerziteta, koja će se razmotriti u dijelu III, IV, V, VI, VII i VIII ovog Izvještaja, a obrazloženje i zaključak o prijavi, kao i prijedlog o izboru, navesti u dijelu IX ovog Izvještaja.

III. Uslovi za izbor u naučnonastavno zvanje redovnog profesora

Na osnovu člana 112. stav (2) tačka (f) Zakona o visokom obrazovanju Kantona Sarajevo (Službene novine Kantona Sarajevo, broj 36/22), uslov za izbor u naučnonastavno zvanje na visokoškolskoj ustanovi za poziciju redovnog profesora je proveden najmanje jedan izborni period u zvanju vanrednog profesora, minimalno osam naučnih radova u priznatim publikacijama objavljenih nakon izbora u zvanje vanrednog profesora, od čega su četiri naučna rada objavljena u publikacijama indeksiranim u relevantnim naučnim bazama, dvije objavljene knjige, dva originalna stručno-naučna djela, kao što je projekt, patent ili originalni metod, te uspješno mentorstvo najmanje tri kandidata za stepen drugog ciklusa/integriranog studija odnosno ekvivalenta i jednog kandidata trećeg ciklusa studija odnosno ekvivalenta. Prijavljeni Kandidat ispunjava uslove kako slijedi:

1. Proveden najmanje jedan izborni period u zvanju vanrednog profesora - **DA**

IV. Minimalno osam naučnih radova u priznatim publikacijama objavljenih nakon izbora u zvanje vanrednog profesora**Objavljeni naučni radovi u časopisima od izbora u zvanje vanrednog profesora**

1. Fatima Masic, Mirza Saric, Jasna Hivziefendic and Zijad Dzemic, "Hosting Capacity in Smart Distribution Systems Using OpenDSS Tool and Monte Carlo-Based Methodology", Science and Technology for Energy Transition, Forthcoming article, Received: 12 May 2024 / Accepted: 03 October 2024, DOI: <https://doi.org/10.2516/stet/2024090> (SCIE)
2. Lejla Vuic, Jasna Hivziefendic, Mirza Saric, Jakub Osmic: „Voltage and frequency control of solar – battery – diesel based islanded microgrid”, Journal of Electrical Engineering, Vol. 74, No. 5, 2023, pp. 442-453, DOI: <https://doi.org/10.2478/jee-2023-0052>, <https://sciendo.com/article/10.2478/jee-2023-0052> (SCIE)
3. Emina Melić, Merisa Hanjalić, Mirza Šarić, Jasna Hivziefendić: "Distributed Generation Allocation in Distribution Network for Energy Losses Reduction", Bosanskohercegovačka elektrotehnika, Volume 17, Special Issue, Page range: 75 – 82, <https://doi.org/10.2478/bhee-2023-0020>, Published Online: 18 Dec 2023, <https://sciendo.com/article/10.2478/bhee-2023-0020>
4. Zajim Aljicevic, Suad Kasapovic, Jasna Hivziefendic, Jasmin Kevric, Samira Mujkic: "Resource Allocation Model for Cloud-Fog based Smart Grid", Science and Technology for Energy Transition, Volume 78, 2023, DOI: <https://doi.org/10.2516/stet/2023030> (SCIE)
5. Merisa Hanjalic, Merisa Melic, Mirza Sařic, Jasna Hivziefendic: „Hosting Capacity Assessment in Electrical Power Distribution Systems Using Genetic Algorithm”, Electric Power Components and Systems, 04. July 2023, DOI: <https://doi.org/10.1080/15325008.2023.2227180>, <https://www.tandfonline.com/doi/full/10.1080/15325008.2023.2227180> (SCIE)
6. Jasna Hivziefendic, Lejla Vuic, Srdjan Lale, Mirza Saric: "Application of the Voltage Control Technique and MPPT of Stand-alone PV System with Storage", Advances in Electrical and Computer Engineering, Volume 22, Number 1, March 2022, DOI: 10.4316/AECE.2022.01003, <https://aece.ro/displayissue.php?year=2022&number=1> (SCIE)
7. Haris Ahmetovic, Mirza Saric, Jasna Hivziefendic, "Reliability Based Power Distribution Network Planning Using Fuzzy Logic ", Advances in Electrical and Electronic Engineering (Journal), Volume 19, No 2, June 2021, DOI: 10.15598/aece.v19i2.4011 (ESCI, Scopus), <http://advances.utc.sk/index.php/AEEE/article/view/4011>
8. Mirza Ponjavic, Almir Karabegovic, Hamid Custovic, Jasna Hivziefendic, "Upgrading the capability of an online biomass atlas by developing a functional extension based on spatial interaction model", International Journal of Sustainable Energy, November 2020, DOI: 10.1080/14786451.2020.1845169 (Scopus, ESCI)
9. Mirza Saric, Jasna Hivziefendic, Tatjana Konjic, " Multi objective DG allocation in radial distribution network for loss reduction, voltage improvement and investment deferral" Elektrotehniški Vestnik, Volume 86, Number 5, pp 253-258, 2019, <https://ev.fe.uni-lj.si/online.php?vol=86> (ESCI, Scopus)

10. Mirza Saric, Jasna Hivziefendic, Haris Ahmetovic, "Distribution Network Planning Methodology with ED Mostar Case Study", *Bosanskohercegovačka elektrotehnika*, Volume 13, December 2019, pp 56-63 (Inspec)

Objavljeni naučni i stručni radovi na konferencijama od izbora u zvanje vanrednog profesora

1. Asim Majdanac, Mirza Saric, Lejla Vuic, Jasna Hivziefendic, „Hosting Capacities in Distribution Network Considering Harmonic Emissions” *Advanced Technologies, Systems, and Applications IX. IAT 2024. Lecture Notes in Networks and Systems*, vol 1143. Springer, Cham. https://doi.org/10.1007/978-3-031-71694-2_55, https://link.springer.com/chapter/10.1007/978-3-031-71694-2_55
2. Jasmina Besic, Emir Ajkunic, Jasna Hivziefendic, Dejan Jokic, Mirza Saric, “Stand-alone solar lighting system with Programmable Logic Controller” *18th International Conference on Programmable devices and Embedded Systems*, 19-21. Jun 2024, Czech Republic, IEEE, DOI: 10.1016/j.ifacol.2024.07.411, *IFAC-PapersOnLine* IFAC-PapersOnLine58(9):287-292 <https://www.sciencedirect.com/journal/ifac-papersonline/vol/58/issue/9>, <https://www.sciencedirect.com/science/article/pii/S2405896324005007> (Scopus)
3. Belmin Memisevic, Mirza Saric, Jasna Hivziefendic: „Stability Analysis of a Wind Park Based on DFIG Technology Supported by a Battery Energy Storage System“, *23rd International Symposium INFOTEH-JAHORINA*, 20-22 March 2024, IEEE, DOI: 10.1109/INFOTEH60418.2024.10496022, <https://ieeexplore.ieee.org/document/10496022> (Scopus)
4. Damir Spago, Mirza Saric, Azrudin Husika, Jasna Hivziefendic, Amer Konakovic, Mirsad Beca: “Techno-Economic Analysis of Energy Efficiency Improvements Using Renewable Energy Sources”, *The International Symposium on Advanced Technologies, Systems and Applications VII, IAT 2022*, pp 260–272, Springer, October 2022, DOI: 10.1007/978-3-031-17697-5_22,
5. Mehrija Hasicic, Aphrodite Ktena, Jasna Hivziefendic: "Study of the effect of microstructure and magnetic texture on major loop phenomenon using OOMMF" *9th IcETRAN Conference*, 6-8 June, 2022, Novi Pazar, Serbia
6. Ermin Šunj, Mirza Šarić, Jasna Hivziefendic: "Wind generator transient response analysis and improvement using BESS", *17th IFAC Conference on programmable devices and embedded systems*, Volume 55, Issue 4, 2022, Pages 322-327, May 17-19, 2022 Sarajevo, <https://doi.org/10.1016/j.ifacol.2022.06.053>
7. Haris Ahmetovic, Elmin Nukic, Jasna Hivziefendic, Mirza Saric, Mirza Ponjavic: "PV system site selection using PVGIS and Fuzzy AHP", *22nd International Symposium INFOTEH-JAHORINA*, 16 - 18 March 2022, IEEE, DOI: 10.1109/INFOTEH53737.2022.9751261 (Scopus)
8. Belmin Memisevic, Mirza Saric, Jasna Hivziefendic: "Secondary arc extinguishing during a Single phase fault at the long High Voltage Overhead Lines - case study of a real power network" *The International Symposium on Advanced Technologies, Systems and Applications VI, IAT 2021*, vol 316. Springer, Cham. https://doi.org/10.1007/978-3-030-90055-7_11 (SCOPUS)
9. Ahmed Balihodzic, Mirza Saric, Jasna Hivziefendic: "Analysis and Control of DG Influence on Voltage Profile in Real Low-voltage Distribution Network Using Variable Power Factor", *The International Symposium on Advanced Technologies, Systems, and Applications VI. IAT 2021.*, vol 316. Springer, Cham. https://doi.org/10.1007/978-3-030-90055-7_12 (SCOPUS)
10. Albina Abaspahić, Mirza Saric, Jasna Hivziefendic, Tatjana Konjic, "Impact of Complementary Integration of Electric Vehicle Charging Stations and Photovoltaics on Voltage Quality and Voltage Stability", *19th International Symposium INFOTEH-JAHORINA*, 19-20 March 2021, IEEE DOI: [10.1109/INFOTEH51037.2021.9400695](https://doi.org/10.1109/INFOTEH51037.2021.9400695) (Scopus)
11. Amar Arpadzic, Mirza Saric, Jasna Hivziefendic, Samir Avdakovic, "*Power system efficiency improvement using solar PV systems*" *International Symposium on Industrial Electronics and Applications - INDEL 2020*, IEEE, Banja Luka, Bosnia and Herzegovina, November 5-6, 2020, DOI: 10.1109/INDEL50386.2020.9266212 (Scopus)

12. Lejla Bandic, Jasna Hivziefendic, Mirza Sarić and Majda Tešanović "Voltage Regulation of PV System with MPPT and Battery Storage in Microgrid", International Conference on Smart Systems and Technologies (SST), IEEE, Osijek, Croatia, October 14-15, 2020, (Scopus)
13. M. Saric, J. Hivziefendic, "Optimal Capacitor Placement in Distribution Network for Loss Reduction and Voltage Profile Improvement", 18th International Symposium INFOTEH-JAHORINA, 20-22 March 2019, IEEE, <https://ieeexplore.ieee.org/document/8717769>, DOI: 10.1109/INFOTEH.2019.8717769 (Scopus)
14. M. Saric, J. Hivziefendic, M. Tesanovic, "Optimal DG Allocation for Power Loss Reduction Considering Load and Generation Uncertainties", 11th International Symposium on Advanced Topics in Electrical Engineering ATEE, Bucharest, Romania, IEEE March 28-30, 2019, <https://ieeexplore.ieee.org/abstract/document/8724911> (Scopus)
15. N. Dogru, E. Salihagić, M. Hasičić, J. Kevrić, J. Hivziefendić, "Nonintrusive Real Time Classification of Home and Office Appliances from Smart Meter by Using Machine Learning Techniques", The 8th Mediterranean Conference on Embedded Computing MECO'2019, Proceedings, June 2019, Budva, Montenegro, pp 759-762, <https://ieeexplore.ieee.org/document/8760094>, DOI: 10.1109/MECO.2019.8760094 (Scopus)
16. Majda Tesanovic, Jasna Hivziefendic, "Survey of Energy Poverty in Bosnia and Herzegovina" Proceedings of the International Symposium on Innovative and Interdisciplinary Applications of Advanced Technologies IV (IAT 2019), Springer International, DOI: 10.1007/978-3-030-24986-1_10, pp 126-136, January 2020 (Scopus) https://link.springer.com/chapter/10.1007/978-3-030-24986-1_10
17. Aphrodite Ktena, George Panagakis, Jasna Hivziefendic, "A study of the retail electricity prices increasing trend in European electricity markets", 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), IEEE RTUCON2019, Latvia, October 7-9, 2019 (Scopus), DOI: [10.1109/RTUCON48111.2019.8982292](https://doi.org/10.1109/RTUCON48111.2019.8982292)

V. Dvije objavljene knjige

1. Jasna Hivziefendić, Mirza Šarić, Mirza Ponjavić: **“Primjena genetičkog algoritma u problemima višeciljne optimizacije”**

-Izdavač: Princom Tuzla,

-CIP number issued by National Library in Bosnia and Herzegovina,

-Sarajevo 621.31, ISBN 978-9958-609-78-7, COBISS.BH 28177414

-Tuzla, 2020

Recezentni :

1. Prof.dr. Almir Karabegović, dipl.ing.el., Fakultet elektrotenike, Univerzitet u Sarajevu
2. Prof.dr. Tanja Konjić, dipl.ing.el., Fakultet elektrotehnike, Univerzitet u Tuzli

2. Jasna Hivziefendić, Mirza Šarić, Lejla Bandić, Adnan Bosović: **“Elektrodistributivne mreže kroz simulaciju i primjere”**

-Izdavač: Princom Tuzla,

-CIP number issued by National Library in Bosnia and Herzegovina,

-Sarajevo 621.311.1, ISBN 978-9926-563-03-5, COBISS.BH 61409030

-Tuzla, 2024

Recezentni:

1. Prof.dr. Mirza Kušljugić, dipl.ing.el., Fakultet elektrotenike i računarstva, Univerzitet u Tuzli
2. Vanr. Prof.dr. Majda Tešanović, dipl.ing.el., Fakultet elektrotehnike i računarstva, Univerzitet u Tuzli

VI. Originalni stručni uspjeh kao što je projekt, patent ili originalni metod

1. **Naziv projekta:** "Knowledge triangle for a Low Carbon Economy KALCEA" (Erasmus +), Projekat implementiran u periodu 2020. - 2023. godine
2. **Naziv projekta:** "Electrical Energy Markets and Engineering Education – ELEMEND" (Erasmus +), Projekat implementiran u periodu 2017. – 2021. godine
3. **Naziv projekta:** COST projekat - CA16232: „European Energy Poverty: Agenda Co-Creation and Knowledge Innovation“, 2017.-2021. godine
4. **Naziv projekta:** "Energy transition in industrial SMEs in Bosnia and Herzegovina". Projekat implementiran kroz Centar za održivu energetske tranziciju, RESET; Projekat implementiran u periodu 2022.-2024. godine
5. **Naziv projekta:** "Energy transition in Bosnia and Herzegovina – opportunities and challenges" Projekat implementiran kroz Centar za održivu energetske tranziciju, RESET; Projekat implementiran 2021 godine
6. **Naziv projekta:** "Energy efficiency network of industrial SMEs in B&H - MEEI" Projekat implementiran kroz Centar za održivu energetske tranziciju, RESET; Projekat implementiran 2021. godine
7. **Naziv projekta:** „Impact of the Introduction of the EU CBAM on the Power Sector and Energy Transition in the Western Balkans“, Projekat implementiran kroz Centar za održivu energetske tranziciju, RESET, Projekat implementiran 2021. godine

VII. Uspješno mentorstvo najmanje po jednog kandidata za stepen drugog ciklusa studija odnosno integriranog ciklusa studija odnosno ekvivalenta

1. **Kandidat: Lejla Mujanović**
Naziv magistarskog rada: *“Increasing of energy efficiency in electrical distribution network by decreasing reactive power losses”*
Datum odbrane: 06.05.2021.
2. **Kandidat: Ahmed Balihodžić**
Naziv magistarskog rada: *“Storage system with solar power at International BURCH University”*
Datum odbrane: 28.09.2021.
3. **Kandidat: Elmin Nukić**
Naziv magistarskog rada: *“Selection of site location for solar power facility using multiple-criteria decision analysis”*.
Datum odbrane: 07.04.2021.
4. **Kandidat: Lejla Lulić**
Naziv magistarskog rada: *“Fault analysis in distribution systems with distributed generation”*
Datum odbrane: 03.11.2012.
5. **Kandidat: Amer Konaković**
Naziv magistarskog rada: *“Measures to increase energy efficiency in small and medium enterprises in industry sector”*
Datum odbrane: 21.09.2023.
6. **Kandidat: Haris Serdarević**
Naziv magistarskog rada: *“Analysis of power flows and power losses in the wind Farm “podveležje” cable network”*,
Datum odbrane: 24.10.2019.
7. **Kandidat: Šejla Aganović**
Naziv magistarskog rada: *„Design Of EMS for Efficient Consumption of Electrical Energy In Public Building with Integrated PV-Storage System“*
Datum odbrane: 15.12.2024.

VIII. Uspješno mentorstvo najmanje jednog kandidata trećeg ciklusa studija odnosno ekvivalenta

1. **Kandidat Lejla Bandić;**
Naziv doktorske disertacije: *“Integration of Distributed Generation and Storage into Microgrid Using Computational Intelligence Based Algorithms”*.
Doktorat odbranjen: 21.09.2023. godine
2. **Kandidat Zajim Aljičević – Mentor 2 na doktorskoj disertaciji**
Naziv doktorske disertacije: *“The Integration Models for Advanced Metering Infrastructure In Smart Grid”*
Doktorat odbranjen: 17.10.2024. godine

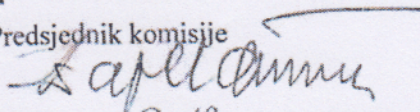
Na Konkurs za izbor nastavnika u zvanje **redovnog profesora** na oblast **Elektroenergetika i automatika** na **Fakultetu za inženjering, prirodne i medicinske nauke** Internacionalnog Burč univerziteta, od 01.11.2024. objavljenog u dnevnom listu EuroBlic za poziciju broj 1, se prijavio 1 kandidat. Stručna služba organizacione jedinice (sekretar Fakulteta) je potvrdila blagovremenost i urednost pristigle prijave sa uslovima utvrđenim konkursom te dostavila prijave i prateću dokumentaciju.

Na osnovu detaljnog uvida u priloženu dokumentaciju i činjenica da je Kandidat priložio dokaz o provedenom najmanje jednom izbornom periodu u zvanju vanrednog profesora, da je objavila 27 naučnih radova u priznatim publikacijama objavljenih nakon izbora u zvanje vanrednog profesora prema listi iz **dijela IV** ovog izvještaja, zatim da je objavila dvije knjige prema **dijelu V** ovog izvještaja, da je priložila dokaz o originalnom stručnom uspjehu (projekt/patent/originalni metod) koji su navedeni u **dijelu VI** ovog izvještaja, da je uspješno mentorisala kandidate/kandidatkinje za stepen drugog ciklusa studija prema **dijelu VII** ovog izvještaja te da je uspješno mentorisala kandidate/kandidatkinje za stepen trećeg ciklusa studija prema **dijelu VIII** ovog izvještaja. Komisija zaključuje da Kandidat **Jasna Hivziefendić** ispunjava sve uslove propisane Zakonom o visokom obrazovanju Kantona Sarajevo (Službene novine Kantona Sarajevo, broj 36/22), Statutom Internacionalnog Burč univerziteta i Pravilnikom o izboru u akademska zvanja Internacionalnog Burč univerziteta za izbor nastavnika u zvanje redovnog profesora na naučnu oblast **Elektroenergetika i automatika** na **Fakultetu za inženjering, prirodne i medicinske nauke** Internacionalnog Burč univerziteta.

Imajući u vidu navedene činjenice, Komisija predlaže Vijeću **Fakulteta za inženjering, prirodne i medicinske nauke** i Senatu Internacionalnog Burč univerziteta da usvoji ovaj izvještaj i izabere Kandidata **Jasnu Hivziefendić** u zvanje redovnog profesora na oblast **Elektroenergetika i automatika** na **Fakultetu za inženjering, prirodne i medicinske nauke** Internacionalnog Burč univerziteta.

dr. sci. Izudin Kapetanović,
profesor emeritus

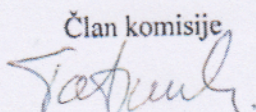
Predsjednik komisije



U Sarajevu, 9. 12. 2024.

dr. sci. Tatjana Konjić,
redovni profesor

Član komisije



dr. sci. Slobodan Lubura,
redovni profesor

Član komisije

