



**COMMITTEE FOR PREPARATION OF PROPOSALS FOR APPOINTMENT  
INTO ACADEMIC TITLE OF SCIENTIFIC FIELD OF "ELECTRICAL ENGINEERING"**

**To the Faculty Council of the Faculty of Engineering and Natural Sciences**

Pursuant to Article 107, paragraph (3) of the Law on Higher Education ("Official Gazette of Sarajevo Canton" 33/17, 35/20, 40/20 and 39/21) and based on the Decision of the Council of the Faculty of Engineering and Natural Sciences, No. IUS-FENS 06-1236/22 dated May 19<sup>th</sup>, 2022, acting in accordance with the submitted Confirmation Certificate by Administrative Service, No. IUS-FENS-06-1200-1/22 (attached to this Report), the Committee for preparation of proposals for the appointment to academic titles composed of:

1. **Dr. Asif Sabanovic**, emeritus professor at the Faculty of Engineering and Natural Sciences; appointed for the course *Robotics and Management of Production systems* at Department of Automation and Electronics, Faculty of Electrical Engineering of the University of Sarajevo,
2. **Dr. Sehabeddin Taha Imeci**, full professor at the Faculty of Engineering and Natural Sciences; appointed for the scientific field of *Electrical Engineering*, and
3. **Dr. Leila Miller**, full professor at the Faculty of Engineering and Natural Sciences; appointed for the scientific field of *Mathematics*.

Evaluated application of Dr. Tarik Namas for the appointment to position of Associate Professor in the field of *Electrical Engineering* upon public vacancy announcement published in newspaper *Nezavisne novine* and web page on May 6<sup>th</sup>, 2022, and submits the following

**REPORT with a Proposal for Appointment to the Academic Title**

**Applicant's name: DR. TARIK NAMAS, per his application for appointment into academic title of Associate Professor**

Dr. Tarik Namas, born in 1981 in Livno, Bosnia and Herzegovina started his university education at *Mutah University*, Karak, Jordan, where in 2004 he successfully completed undergraduate study at Department of Electrical Engineering - Telecommunications. In 2008, he earned the degree Master of Science from *International University of Sarajevo* majoring in *Mechatronics and System Science*. In 2017, Dr. Namas obtained PhD degree in *Electrical and Electronics Engineering* from International University of Sarajevo after he defended doctoral dissertation entitled *Template Based Pose Estimation and Automatic Target Recognition Using Space and Frequency Statistics*. Dr. Namas was working as senior assistant at IUS in the period from 2011 to 2016 and currently he holds position of assistant professor since 2017.



## KOMISIJA ZA PRIPREMANJE PRIJEDLOGA ZA IZBOR U AKADEMSKO NASTAVNO ZVANJE ZA NAUČNU OBLAST „ELEKTROTEHNIKA“

### VIJEĆU FAKULTETA PRIRODNIH I TEHNIČKIH NAUKA

Na osnovu člana 107., stav (3) Zakona o visokom obrazovanju („Službene novine Kantona Sarajevo“ 33/17, 35/20, 40/20 i 39/21), postupajući na osnovu Odluke Vijeća Fakulteta prirodnih i tehničkih nauka, broj: IUS-FENS 06-1236/22 od 19.05.2022. godine i Potvrde Stručne službe, broj: IUS-FENS-06-1200-1/22 (u sastavu ovog izvještaja), Komisija za pripremanje prijedloga za izbor u akademska zvanja za naučnu oblast „Elektrotehnika“, u sastavu:

1. **Dr. Asif Šabanović**, professor emeritus na Fakultetu prirodnih i tehničkih nauka Internacionalnog univerziteta u Sarajevu, izabran na predmet „Robotika i upravljanje proizvodnih sistema“ na Odsjeku za automatiku i elektroniku Elektrotehničkog fakulteta Univerziteta u Sarajevu,
2. **Dr. Sehabeddin Taha Imeci**, redovni profesor na Fakultetu prirodnih i tehničkih nauka Internacionalnog univerziteta u Sarajevu, izabran za naučnu oblast „Elektrotehnika“, i
3. **Dr. Leila Miller**, redovni profesor na Fakultetu prirodnih i tehničkih nauka Internacionalnog univerziteta u Sarajevu, izabrana za naučnu oblast „Matematika“.

Nakon izvršene analize prijave za zvanje vanrednog profesora, podnesene po javnom konkursu od 05.04.2022. godine u dnevnim novinama „Nezavisne novine“ i internet stranici Internacionalnog univerziteta u Sarajevu, od strane aplikanta Dr. Tarika Namasa, Komisija podnosi *sljedeći*:

### IZVJEŠTAJ sa prijedlogom za izbor u zvanje

#### Kandidat: DR. TARIK NAMAS, postupajući po prijavi za zvanje vanrednog profesora

Dr. Tarik Namas, rođen 1981. u Livnu, BiH, započeo je fakultetsko obrazovanje na „*Mutah University*“ u Karaku, Jordan, gdje je 2004. godine uspješno završio dodiplomski studij na Odsjeku za elektrotehniku - telekomunikacije. Godine 2004. stekao je titulu magistra na Internacionalnom univerzitetu u Sarajevu iz oblasti mehatronika i systemska nauka. 2017. godine, Dr. Namas je doktorirao iz oblasti Elektrotehnike i elektronike nakon obrane doktorske disertacije pod nazivom „*Template Based Pose Estimation and Automatic Target Recognition Using Space and Frequency Statistics*“. Dr. Namas radio je kao viši asistent na IUS-u u periodu od 2011. do 2016. godine, a trenutno je u zvanju docenta od 2017. godine.



### A. EDUCATION / OBRAZOVANJE

Stepen/Degree	Odsjek/Program	Univerzitet/University	Godina/Year
BA	Electrical and Electronics Engineering	<i>Mutah University, Jordan</i>	1999 – 2004
MA	Mechatronics and Systems Engineering	<i>International University of Sarajevo, BiH</i>	2006 – 2008
PhD	Electrical and Electronics Engineering	<i>International University of Sarajevo, BiH</i>	2011 – 2017

### B. ACADEMIC WORK EXPERIENCE / AKADEMSKO RADNO ISKUSTVO

Assistant Professor / Docent 2017 –  
Senior Assistant / Viši asistent 2011 – 2016

The Committee finds that Dr. Tarik Namas spent the period of appointment to the academic title of assistant professor.

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Komisija konstatuje da je Dr. Tarik Namas provo izborni period u zvanju docenta.

### C. TEACHING PORTFOLIO / NASTAVNI PORTOFOLIO

Dr. Namas je predavao sljedeće predmete u postupku sticanja diplome prvog ciklusa studija: EE435 Microprocessors, ENS203 Electrical Circuits, ENS213 Programming for Engineers, CS103 Introduction to Programming, EE321 Electrical Machines I, EE423 High Voltage Engineering, CS100 Computer Skills, EE431 Digital Signal Processing, ENS206 System Modelling and Control, EE202 Electrical Circuits II, EE201 Analogue Electronics I, EE311 Control System Design, EE429 Digital Power Systems Protection, ENS221 Introduction to Engineering, EE305 Instrumentation and Measurement, EE435 Microprocessors I, SE302 Software Testing and Maintenance, EE403 Industrial Process Instrumentation, EE431 Digital Signal Processing, EE325 Embedded Systems, EE322 Power Systems, CS303 Digital Design, te EE573 Design of Embedded Systems i MATH517 Advanced Mathematics for Engineers and Scientists na drugom ciklusu studija.

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Dr. Namas was teaching following undergraduate courses: EE435 Microprocessors, ENS203 Electrical Circuits, ENS213 Programming for Engineers, CS103 Introduction to Programming, EE321 Electrical Machines I, EE423 High Voltage Engineering, CS100 Computer Skills, EE431 Digital Signal Processing, ENS206 System Modelling and Control, EE202 Electrical Circuits II, EE201 Analogue Electronics I, EE311



Control System Design, EE429 Digital Power Systems Protection, ENS221 Introduction to Engineering, EE305 Instrumentation and Measurement, EE435 Microprocessors I, SE302 Software Testing and Maintenance, EE403 Industrial Process Instrumentation, EE431 Digital Signal Processing, EE325 Embedded Systems, EE322 Power Systems, CS303 Digital Design; and graduate courses: EE573 Design of Embedded Systems and MATH517 Advanced Mathematics for Engineers and Scientists.

#### **D. LIST OF SCIENTIFIC AND OTHER PUBLICATIONS SINCE THE APPOINTMENT TO THE ACADEMIC TITLE OF ASSISTANT PROFESSOR / PREGLED NAUČNIH I DRUGIH RADOVA OD IZBORA U ZVANJE DOCENTA**

##### **D.1. Publications in the international peer-refereed journals / Naučni radovi u recenziranim međunarodnim časopisima**

1. Dzafic, Izudin, Jabr, Rabih A, and **Namas, Tarik** "Locating ground faults in non-solidly grounded networks via nonlinear least-squares", International Journal of Electrical Power & Energy Systems Vol. 121, 2020 (INDEXED by Schimago, Q1, Scopus).

##### **D.2. Publications published in refereed international conference proceedings / Naučni radovi objavljeni u recenziranim zbornicima sa konferencija**

1. T. Namas, S. Dzakmic and I. Dzafic, "Testing the Feasibility of Dynamic Mode Decomposition for Short Term Load Forecast," 2021 7th International Conference on Electrical Energy Systems (ICEES), 2021, pp. 229-233, doi: 10.1109/ICEES51510.2021.9383637. (Indexed by Scopus)
2. A. Smajkić, I. Džafić and T. Namas, "Design and Implementation of Voltage VAR Control in Closed Loop Mode: Benefits and Pitfalls," 2021 7th International Conference on Electrical Energy Systems (ICEES), 2021, pp. 234-239, doi: 10.1109/ICEES51510.2021.9383756. (Indexed by Scopus)
3. T. Namas and I. Džafić, "Least Square Method For Impedance Based Fault Location In Ungrounded Networks," 2020 2nd Global Power, Energy and Communication Conference (GPECOM), 2020, pp. 274-278, doi: 10.1109/GPECOM49333.2020.9247886. (Indexed by Scopus)
4. T. Hrnjić, I. Džafić and T. Namas, "Selection of Power Flow Algorithm for Closed Loop Volt-Var Control," 2020 International Conference on Power, Instrumentation, Control and Computing (PICC), 2020, pp. 1-6, doi: 10.1109/PICC51425.2020.9362379. (Indexed by Scopus)
5. T. Namas, Š. Džakmić and I. Džafić, "Testing Impedance Based Fault Location Using Orthogonal Components For Different Fault Parameters," 2020 International Conference on Power, Instrumentation, Control and Computing (PICC), 2020, pp. 1-6, doi: 10.1109/PICC51425.2020.9362451. (Indexed by Scopus)
6. Š. Džakmic, T. Namas and I. Džafić, "Fault classification using multi-resolution analysis and discrete wavelet transforms," 2017 XXVI International Conference on Information, Communication and



Automation Technologies (ICAT), 2017, pp. 1-6, doi: 10.1109/ICAT.2017.8171647. (Indexed by Scopus)

7. Šejla Džakmić, Tarik Namas, Alma Husagić-Selman, "Combined Fourier Transform and Mexican Hat Wavelet for Fault Detection in Distribution Networks", IEEE, 2017 9th IEEE-GCC Conference and Exhibition (GCCCE). (Indexed by Scopus)

### D.3. Book Chapters / Poglavlja u knjigama

1. Namas, T., Hodžić, M. (2018). Automatic SAR Target Recognition and Pose Estimation. Part 1. Geometric Methods for Pose Estimation. In: Hadžikadić, M., Avdaković, S. (eds) Advanced Technologies, Systems, and Applications II. IAT 2017. Lecture Notes in Networks and Systems, vol 28. Springer, Cham. [https://doi.org/10.1007/978-3-319-71321-2\\_76](https://doi.org/10.1007/978-3-319-71321-2_76) (Indexed by Scopus)
2. Hodžić, M., Namas, T. (2018). Automatic SAR Target Recognition and Pose Estimation. Part 2. Statistical Methods for Target Recognition. In: Hadžikadić, M., Avdaković, S. (eds) Advanced Technologies, Systems, and Applications II. IAT 2017. Lecture Notes in Networks and Systems, vol 28. Springer, Cham. [https://doi.org/10.1007/978-3-319-71321-2\\_77](https://doi.org/10.1007/978-3-319-71321-2_77) (Indexed by Scopus)
3. Migdat Hodzic and Tarik Namas, chapter book: Target Signature and Pose Estimation, in Springer Book Advanced Technologies, Systems and Applications, Page 37 – 55, 2017. (Indexed by Scopus)

The Committee finds that Dr. Namas has published 11 papers (since last appointment to academic title) in total which are relevant for appointment to the academic title. Thus, Dr. Namas satisfied requirement of published at least 5 papers in acknowledge publications for appointment to the academic title of Associate professor.

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Komisija nalazi da je Dr. Namas objavio ukupno 11 naučnih radova (od posljednjeg izbora u zvanje) koji su relevantni za izbor u akademsko zvanje. Time je Dr. Namas ispunio uslov objave najmanje pet naučnih radova objavljenih u priznatim publikacijama za izbor u zvanje vanrednog profesora.

### E. PUBLISHED BOOKS (since the last appointment) / OBJAVLJENE KNJIGE (od posljednjeg izbora u zvanje)

The Committee finds that Dr. Namas didn't publish a book since the appointment to the academic title of assistant professor, which is condition to appointment to associate professor position. According to the Law on Higher Education and IUS Statute, due to justified reasons requirement of published book may be substituted with 3 additional scientific papers over 5 required for appointment to the title of associate professor.

Given the fact that Dr. Namas's teaching load was continuously above the optimal and that he taught a larger number of courses, and due to the fact that he performed the duties of the Program coordinator



of the *Electrical and Electronics Engineering* study program and Manager of the *Research and Development Center* of IUS, and taken into consideration that Statute of IUS allows substitution in such a case, the Committee concludes that substitution of a published book with additional three scientific papers in this case is justified and applicable.

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Komsija nalazi da Dr. Namas nije izdao knjigu od izbora u zvanje docenta, a koja je uslov za izbor u zvanje vanredovnog profesora. Prema Zakonu o visokom obrazovanju KS, odnosno Statutu IUS-a, uslov izdavanja knjige može se iz opravdanih razloga supstituirati s tri dodatna naučna rada, u odnosu na pet potrebnih za izbor u zvanje vanredovnog profesora.

S obzirom da je Dr. Namas kontinuirano imao nastavno opterećenje veće od optimalnog gdje je predavao veći broj predmeta, i s obzirom na činjenicu da je obavljao zaduženja program koordinatora studijskog programa "Elektrotehnika i elektronika" i menadžera "Centra za istraživanje i razvoj" IUS-a, te da Statut IUS-a predviđa supstituciju u takvom slučaju, Komisija zaključuje da je u ovom slučaju supstitucija objavljenih knjiga sa tri dodatna naučnih radova opravdana i primjenjiva.

## **F. MENTORSHIPS SINCE THE LAST APPOINTMENT TO THE ACADEMIC TITLE / MENTORSTVA OD POSLJEDNJEG IZBORA U ZVANJE**

### **F.1. Master theses / Magistarske teze**

1. Cebrial Polat: "Implementation of Carpet Washing Machine With High Pressure Water Jet System Added Stage", September 2018.
2. Omar Hassan: "Using Kalman Filter for Target Tracking on a 2D Platform", August 2020.
3. Bakir Brkic: "Cross Platform Software Solution for Kalman Filter Based Target Tracking", August 2020.

The Committee finds that Dr. Namas has fulfilled the condition of successful mentoring of at least one candidate for the second cycle of studies since the last appointment to the academic title.

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Komisija konstatuje da je Dr. Namas ispunio uslov uspješnog mentorstva najmanje jednog kandidata za stepen drugog ciklusa studija od posljednjeg izbora u zvanje.

## **G. PATENTS, PROJECT, ORIGINAL METHOD / PATENT, PROJEKAT, ORIGINALNI METOD**

1. "TIKA Fabrication Laboratory–TIKA-IUS Cezery Laboratory."The project was funded by the Turkish Cooperation and Coordination Agency (TIKA) and was valued at 50,000.00EUR. The project was completed in 2021. Dr. Tarik Namas acted as a researcher and project coordinator.



2. "Automatic regulation of voltage and reactive power in turbid three-phase distribution networks," which was financially supported by the Ministry of Education, Science and Youth, Canton Sarajevo. The Project Coordinator was Prof. Dr. Izudin Dzafic. It was a 15-month project (11/2019-1/2021) and the total project budget was 60,000.00KM. Dr. Tarik Namas acted as a researcher.
3. "Modelling Educational Robot" (MER), Erasmus+ Project–Cooperation for innovation and the exchange of good practices (ActionType: Strategic Partnerships for vocational education and training). The Project Coordinator was Skolski Center Novo Mesto in Slovenia, while the IUS Project Coordinator was Assoc. Prof. Dr. Muhamed Hadziabdic. The project was a two-year project(10/2019–12/2021), which was successfully implemented in 2021. The total project budget was 242,830.00EUR. Dr. Tarik Namas acted as a researcher.

The Committee finds that Dr. Tarik Namas was a principal investigator and researcher in the funded projects since appointment to the academic title of assistant professor, and thereby satisfied the condition of an original professional accomplishment for appointment to the academic title of associate professor.

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Komisija nalazi da je dr. Tarik Namas bio nosilac projekata i istraživač na finansiranim projektima od izbora u zvanje docenta, te je time zadovoljio uslov originalnog stručnog uspjeha za izbor u akademsko zvanje vanrednog profesora.

## H. INTRODUCTORY LECTURE

Dr. Tarik Namas does not need to deliver introductory lecture since he participated in the implementation of the teaching process at the higher education institution.

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Dr. Tarik Namas ne treba održati pristupno predavanje obzirom da je sudjelovao u realizaciji nastavnog procesa na visokoškolskoj ustanovi.

## I - PROPOSAL AND RATIONALE

**Based on the scientific work since the last appointment to the academic title, in accordance with the Law on Higher Education of Sarajevo Canton ("Official Gazette of Sarajevo Canton" No: 33/17, 35/20, 40/20 and 39/21), the Selection Committee unanimously proposes to the Council of the Faculty of Engineering and Natural Sciences to appoint DR. TARIK NAMAS to the academic title of ASSOCIATE PROFESSOR in the scientific field of "ELECTRICAL ENGINEERING", at the Faculty of Engineering and Natural Sciences of the International University of Sarajevo.**

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Na osnovu naučnog rada od posljednjeg izbora u akademsko zvanje, u skladu sa odredbama Zakona o visokom obrazovanju Kantona Sarajevo ("Službene novine Kantona Sarajevo" br: 33/17, 35/20, 40/20 i 39/21), Komisija jednoglasno predlaže Vijeću Fakulteta prirodnih i tehničkih nauka Internacionalnog univerziteta u Sarajevu da se DR. TARIK NAMAS izabere za nastavnika u naučnonastavnom zvanju VANREDNI PROFESOR u naučnoj oblasti "ELEKTROTEHNIKA", na Fakultetu prirodnih i tehničkih nauka Internacionalnog univerziteta u Sarajevu.

**COMMITTEE / KOMISIJA**

1. **Prof. Emeritus Dr. Asif Šabanović**

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(Signature / Potpis)

2. **Prof. Dr. Sehabeddin Taha Imeci**

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(Signature / Potpis)

3. **Prof. Dr. Leila Miller**

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(Signature / Potpis)