euro*pass* Curriculum Vitae Alma Žiga



Alma Žiga



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www.mf.unze.ba

Sex Female | Date of birth 4/9/1973 | Nationality Bosnian-Herzegovinian

WORK EXPERIENCE

26/10/2016-present

Professor

Associate Professor in Mechanics of Materials, 2021 - now Assistant Professor in Mechanics of Materials, 2016 - 2021

University of Zenica, Faculty of Mechanical Engineering (Bosnia and Herzegovina)

- teaching (lectures and exercises)
- educational, research and professional projects
- consultancy work
- exam organization
- supervising diploma works and master thesis
- administrative duties
- chairman of the Faculty scientific council (2020 2024)

2001-2016 Teaching assistant

Senior teaching assistant in Engineering Mechanics (2007 - 2016)

Teaching assistant in Engineering Mechanics (2001 - 2007)

University of Zenica, Faculty of Mechanical Engineering (Bosnia and Herzegovina)

- teaching (exercises)
- educational, research and professional projects
- consultancy work
- assisting in exam organization
- administrative duties

2000-2001

Apprentice mechanical engineer

'UNIS Kovina' Visoko

- Production of steel structures, winter equipment, reservoirs, upgrades to vehicles, utility equipment

EDUCATION AND TRAINING

2016 PhD in Mechanical Engineering

EQF level 8

University of Zenica, Faculty of Mechanical Engineering

PhD Thesis: "The influence of contact, variable stresses on the durability of cast steel support rollers on rotary kilns"

2006 PhD in Mechanical Engineering

EQF level 7

University of Zenica, Faculty of Mechanical Engineering

Master Thesis: "Foot design of an above-the-knee prosthesis with built-in hydraulic actuators in the ankle and knee"



1999 Mechanical engineer

EQF level 6

University of Zenica, Faculty of Mechanical Engineering

Manufacturing and design

Diploma work: Calculation of centrifugal pump parameters using the Fortran programming language and its connection with AutoCAD

PERSONAL SKILLS

Mother tongue(s)

Bosnian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	B2	B2	B2

English

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user Common European Framework of Reference for Languages

Job-related skills

- Excellent knowledge of engineering mechanics and its application in engineering design
- FEM analysis (ABAQUS, SolidWorks Simulation): stresses and strains, kinematic analysis
- CAD: 2D drawing (AutoCAD) and 3D modelling (SolidWorks)
- Application of mathematical software in engineering problems (Wolfram Mathematica)
- Basic knowledge of various mechanical engineering fields and application software

Digital competence

SELF-ASSESSMENT						
Information processing	Communication	Content creation	Safety	Problem solving		
Proficient user	Proficient user	Independent user	Basic user	Basic user		

Levels: Basic user - Independent user - Proficient user <u>Digital competences - Self-assessment grid</u>

Driving licence

В

ADDITIONAL INFORMATION

Research interest

Engineering mechanics, Design of mechanical STEM models, Plywood laser cutting, 3D printing

Publications

- 2 text-book
- 5 journal papers and 22 conference papers

(profiles on orcid.org, scholar.google.com, researchgate.net)