

Uvodne riječi · *Introduction*

Riječ dekanice Tehničkog veleučilišta u Zagrebu



Igre iza granica je naziv izložbe studentskih radova studenata Informatičkog dizajna Tehničkog veleučilišta u Zagrebu. Dio je to projekta Marie S. Curie „Noć istraživača u Hrvatskoj“. O samoj izložbi govorila je mentorica prof. dr. sc. Jana Žiljak Gršić. Više na linku:

<https://www.youtube.com/watch?v=1DZtZq2eY7s&feature=youtu.be>

Otvaranju izložbe su prisustvovali: Ulla Leiner Maksan, prof. dr. sc. Jana Žiljak Gršić, Lana Peternel, prof. dr. sc. Slavica Ćosović Bajić, Željko Šturlić, Svebor Vidmar, dr. sc. Ivan Rajković i Dinka Radonić.



Misija Tehničkog veleučilišta u Zagrebu je promicanje umijeća inženjerstva, izobrazba vrhunskih inženjera, širenje i primjena inženjerskog znanja te poticanje inovativnosti i izvrsnosti za dobrobit zajednice. U zemljama EU postoje slični studijski programi iz tehničkog područja.

Tehničko veleučilište u skladu sa Strategijom TVZ pokrenulo je postupak akreditacije Specijalističkog diplomskog studija Strojarstva s navedenim modulima:

Modul mehatronike i robotike,
Modul ekotehnologija i
Modul industrijskog menadžmenta.

Inicijalna akreditacija Diplomskog stručnog studija Strojarstva provedena je 3.srpnja 2018 godine. Pokretanjem ovog studija osigurali bi se specijalisti usporedivi po kompetencijama sa specijalistima educiranim na specijalističkim stručnim studijima u zemljama EU.

Dekanica Tehničkog veleučilišta u Zagrebu

prof. dr. sc. Slavica Ćosović Bajić

A Word from the Dean of the Zagreb University of Applied Science



Games beyond frontiers is an exhibition of the works of the IT design students at the Zagreb University of Applied Sciences. It is a part of the Marie S. Curie project called “Croatian Researchers' Night“. A mentor, Prof. Jana Žiljak Gršić, PhD, gave her comment on the exhibition. For more information see the following link:

<https://www.youtube.com/watch?v=1DZtZq2eY7s&feature=youtu.be>

Ulla Leiner Maksan, Prof. Jana Žiljak Gršić, PhD, Lana Peternel, Prof. Slavica Čosović- Bajić, PhD, Željko Šturlić, Svebor Vidmar, Ivan Rajković, PhD, and Dinka Radonić were among the visitors at the exhibition opening.

The mission of the Zagreb University of Applied Sciences is to promote the art of engineering, educate high-quality engineers, disseminate and apply engineering knowledge and advance innovation and excellence for the benefit of society.

EU member states have similar study programmes in the engineering field. According to the TVZ Strategy, the Zagreb University of Applied Sciences started the accreditation procedure for the Specialist Professional Graduate Study in Mechanical Engineering including the following Modules:

**Mechatronics and Robotic,
Ecotechnology,
Industrial Management**

Procedure of initial accreditation for the Specialist Professional Graduate Study in Mechanical Engineering took place on 3 July, 2018. Starting this study programme would provide specialists as competent as the specialists educated at specialist professional studies in the EU member states.

Dean of the Zagreb University of Applied Sciences

Prof. Slavica Čosović Bajić, PhD

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Riječ glavnog urednika časopisa *Polytechnic and Design*



Za novi broj časopisa predložene su teme iz informatike, drvne industrije, marketinga, elektronike, forenzike, inovacija i dizajna. Uredništvo časopisa *Polytechnic and Design* vodi korespondenciju sa autorima radova koji su se istaknuli kao inovatori u tehničkom i dizajnerskom području. Skoro svaki od njih je već održao gostujuće predavanje na temu koju obrađuje u svom istraživačkom poslu. Imali smo profesore iz Austrije, Grčke pa i iz daleke Indije. Predavači s drugih Sveučilišta su nam osvježene koje počinje s temom iz objavljenog rada u časopisu. Studenti su puni pitanja o novim rješenjima s temama: elektro automobila, aditivnih tehnologija prostornog 3D slaganja skulpture s primjenama u strojarstvu, elektrotehnic pa sve do medicine.

Časopis ima dugogodišnju suradnju s prestižnim inovatorima koji imaju nekoliko patenata i brojne nagrade širom svijeta. U ovom broju su nam se pridružili Profesori Dubravko Rogale i Gokjko Nikolić. Svake godine nam Profesori održe posebna predavanja na kolegiju koji tretira inovacije i procedure prijave patenata. U ovom broji P&D 6/2 imamo njihova recentna razmišljanja i prikaz radova. Profesor Dubravko Rogale nam daje nova rješenja pod nazivom „Pametna odjeća za bolesnike i rekoalescente“. Kolega Gokjko Nikolić počinje s aktualnim pitanjem: Je li industrija 5.0 odgovor na industriju 4.0 ili njen nastavak?“

Časopis *Polytechnic and Design* izlazi na hrvatskom i engleskom jeziku. Neke radove uređuju kolege u uredništvu te pripremaju za dvojezično izdanje. Rad kolege prof. Anastasiosa E. Politisa iz Grčke je preveden na hrvatski jezik. Njegova tema pokriva područje terminologije u tehničkom rječniku današnjice kada su mnoge riječi postale internacionalne. Moderan izgovor s korjenima starog latinskog, grčkog na primjer.

Glavni urednik časopisa Polytechnic and Design

prof. emeritus dr. sc. Vilko Žiljak

Word of Chief editor of journal Polytechnic and Design



The proposed topics for the latest issue of our journal are related to IT, wood processing industry, marketing, electronics, forensics, innovations and design. Polytechnic and Design's editorial board is in correspondence with the authors of the papers who have excelled as innovators in the fields of engineering and design. Almost all of them have already delivered a guest lecture dealing with the subject of their research work. We have had professors from Austria, Greece and even from far-away India as guest lecturers. The guest lecturers from other universities are refreshing, they start with the topic discussed in their paper published in our journal. Students have a lot of questions about new solutions to electric car, additive technologies of 3D sculpture modeling applied in the fields from mechanical engineering to electrical engineering to medicine.

For many years the Journal has been collaborating with prestigious innovators who have several patents and have received numerous world awards. Prof. Dubravko Rogale and Prof. Gojko Nikolić have given their contribution with their articles to the current issue. Every year the Professors deliver special lectures at our course dealing with innovations and patent registration procedure. This P&D issue, no. 6/2, includes their recent discussions and peer reviews. Prof. Dubravko Rogale offers new solutions called „Smart clothes for patients and convalescents“. Our colleague Gojko Nikolić starts the paper with up-to-date question: “Is Industry 5.0 a response to Industry 4.0 or its continuation? “

Polytechnic and Design journal is published in Croatian and English. The editorial board selects some of the articles and prepares them for the bi-lingual issue. The paper written by our colleague from Greece, prof. Anastasios E. Politis, is translated into Croatian. His topic covers the area of terminology in technical vocabulary of today when many words have become international; for instance the modern pronunciation of words that have roots in Ancient Greek or Latin.

Editor-in-chief of journal Polytechnic and Design

Prof. Emer. Vilko Žiljak, PhD