

BUANEWS

Balkan Universities Association E-Bulletin

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Balkan Universities Association

THE DEPARTMENT OF COMPUTER SCIENCE AT ARISTOTLE UNIVERSITY OF THESSALONIKI HAS CREATED THE WORLD'S FASTEST ARTIFICIAL INTELLIGENCE PROCESSOR UTILIZING LIGHT.



The research team at Aristotle University of Thessaloniki's Department of Computer Science has created the world's fastest Artificial Intelligence processor, employing photonic neurons and light-

based operation instead of traditional electric current.

This processor utilizes an inventive photonic neuron architecture, facilitating rapid execution of algebraic operations while concurrently employing innovative Neural Network training methods to enhance algorithm adaptation for light's distinct characteristics. This innovative approach has resulted in an experimental demonstration of a photonic processor achieving speeds of up to 50GHz, surpassing contemporary GPU processors by over 25 times, and with a remarkable 10-fold reduction in energy consumption.

Sources: <https://studyingreece.edu.gr/dep-of-informatics-of-auth-builds-the-fastest-artificial-intelligence-processor-in-the-world/>

INTERNATIONAL RECOGNITION FOR THE ART TEAM AT AUTH: SECURED 2ND PLACE IN THE INTERNATIONAL COMPETITION IN ASSEN, NETHERLANDS.



With a history spanning 17 years, the student team "Aristotle Racing Team - AT" from Aristotle University has consistently demonstrated excellence, as they recently secured 2nd place in an international race held at the TT Circuit in Assen, Netherlands.

In an exceptionally competitive international environment, the ART team at AUTH managed to excel in nearly all events. The laboratories of the Department of Mechanical Engineering at AUTH with which ART

closely collaborates include the Metallurgy Laboratory, the Elements of Machines and Mechanical Design Laboratory, the Applied Thermodynamics Laboratory, and the Fluid Mechanics and Turbomachinery Laboratory.

Sources: <https://www.auth.gr/press/diethnis-diakrisi-gia-tin-omada-art-toy-ap/>
<https://aristotleracing.gr/>



Istinye University (ISU), was established in 2015 by the 21st Century Anatolian Foundation. It was built upon the knowledge and experience of the MLP Care Group, which has amalgamated three distinct hospital brands - “Liv Hospital,” “Medical Park,” and “VM Medical Park” - into one institution, under one roof. Its mission is to become a leading institution in Türkiye and in the world by generating new knowledge through education and research.

Istinye University’s academic staff is dedicated to making a significant impact in their fields and equipping students for their future professional careers by sharing knowledge. With a highly qualified team of over 700 academic staff members, the university is equipped to deliver quality education and research opportunities. ISU offers 36 associate, 65 undergraduate, 45 graduate, and 19 doctoral programs and hosts 27 research centers, reflecting its commitment to advancing knowledge in various fields. Istinye University is featured on the Web of Science Q1 list with articles from various academics, ranking in the top 1%.

ISU’s dedication to fostering innovation goes beyond its academic curriculum: The institution has made substantial investments in cutting-edge technology and state-of-the-art facilities to ensure that students receive a truly world-class education. Istinye University’s commitment to the idea of ‘internationalization’ and global excellence reflects its steadfast commitment to delivering first rate education and research prospects that equip students for influential positions within their chosen domains.

Istinye University stands as a young and distinguished institution, offering a diverse range of educational programs to over 14,000 students, including approximately 2,500 international students hailing from various corners of the globe.

Istinye University’s primary goal is to cultivate individuals who possess a blend of leadership attributes, a strong foundation in science, critical thinking prowess, and a firm ethical and humanitarian compass. The University is deeply committed to a student-centric approach that permeates every facet of its operations, pushing the boundaries of scientific exploration while actively contributing to the betterment of society through

impactful research endeavors. The University also provides support to entrepreneurs who wish to enhance their potential through education programs offered by the Technology Transfer Office, and Incubation Hub.

Istinye University is providing quality education and research opportunities to become one of the most prestigious institutions globally. By cultivating competent, creative, and forward-thinking individuals, ISU strives to contribute to the progress of humankind and play a significant role in society’s social, cultural, economic, scientific, and technological development.

Istinye University, as a ‘research university’, adopts a socially-responsible approach to education, by expanding the horizons of science and aspires to be recognized as a global institution, and has taken significant steps towards achieving this goal. With over tens of bilateral agreements, including Erasmus, ISU has established partnerships with leading institutions worldwide, facilitating student and staff mobility, academic cooperation, and knowledge exchange. Its membership to EUA The European University Association and BUA Balkan University Association enhances the efficiency of the support given to students to be a world citizen.

Istinye University is a member of European Organization for Nuclear Research - CERN’s ATLAS Experiment and ESSSR European School of Sustainability Science and Research, and ‘Turquality’, the world’s first and only government-supported international branding program. Istinye University has become an official collaboration member of the ATLAS Experiment, which is one of the largest particle physics experiments at CERN, the world’s largest particle physics research laboratory and scientific discovery center. As the first ‘foundation university’ from Türkiye to participate in the decision-making process for the ATLAS Experiment, ISU shared details of its contributions to the work at CERN during the launch, held on at ISU Vadi Campus. CERN’s Director for Research and Computing and ATLAS Spokesperson also attended to the event.

Through these international collaborations, Istinye University aims to enhance its academic and research capabilities, broaden its scope of influence, and contribute to the global knowledge economy.

DIGITALIZATION AND DUAL EDUCATION AT OVIDIUS UNIVERSITY OF CONSTANȚA

Ovidius University of Constanța will implement, in the coming years, two projects financed from the National Recovery and Resilience Plan, with major impact for its institutional development, but also for the entire South-East region of Romania.

The first project “EDUOC - Digital Education in the Ovidius University of Constanța” has been awarded a grant within the program for the digitalization of universities. The objectives of the project include: digitalization of university processes, increasing effectiveness and efficiency; development of five digital centres and creation of seven new digital laboratories, to address advanced technologies; improving the digital skills of students, teaching, administrative, and research staff.

“The project aims to develop general and specific advanced digital skills for 1.443 people from the academic community of our higher education institution, including 1.193 students and 250 teaching, administrative and research staff, who will use the digital infrastructure created by the project”, says dr. Dan-Marcel Iliescu, Ovidius University rector.

The second project, submitted under the pilot program for the development of regional consortia for dual education, obtained the highest score in the South-East region. As the consortium leader, Ovidius University of Constanța will restructure high school and university technological education in Dobrogea, together with over 43 partners, of which 13 are high schools, 17 are private firms, 6 are local authorities, and the rest are professional and employer associations.

The CRESC project will lead to building and endowing “Ovidius Engineering Hub”, the integrated professional campus for dual secondary and tertiary education of the regional

consortium “Tehno-Dobrogea”, with a total value of over 27 million EUR. “Ovidius Engineering Hub” will be in the northern campus of Ovidius University, over an area of about 10.000 square meters. The project involves the construction of new spaces dedicated to technical education, as well as accommodation spaces and a canteen for high school and university students.

“This is the largest investment in Constanța’s educational infrastructure in recent years. I am thankful to the entire project team, as well as to the partners who made this success possible. We have plans for a long and successful journey together, aiming at strengthening and modernizing technical education. I am convinced that the «Ovidius Engineering Hub» will have a strong impact for the sustainable development of the South-East region of Romania”, says the rector.

Faithful to its triple mission, of education, research and engagement, Ovidius University of Constanța is committed to the digital transformation and green transition, for the benefit of the regional community and positive impact in the Balkans and Black Sea area.



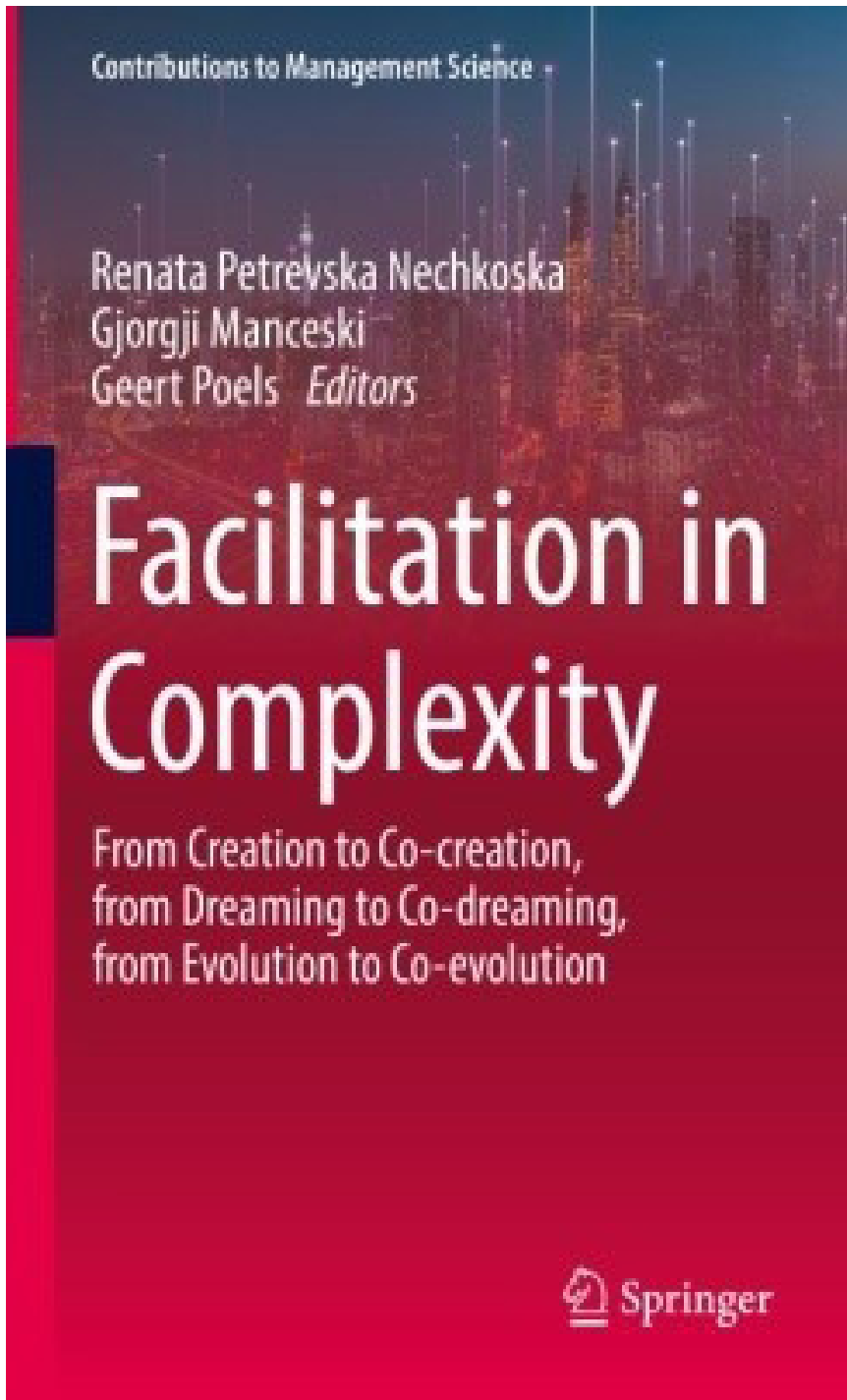
TRAKYA UNIVERSITY DELEGATION VISITED UNIVERSITY OF TUZLA BEFORE THE 7TH ANNUAL MEETING OF BALKAN UNIVERSITIES ASSOCIATION

The Rector of Trakya University and the Secretary-General of BUA, Prof. Dr. Erhan Tabakoğlu, along with the Vice-Rector responsible for Foreign Relations, Prof. Dr. Osman Nuri Hatipoğlu, and Enes Turbic, a lecturer at Trakya University visited Prof. Dr. Nermina Hadžigrahić, the outgoing president of University of Tuzla, in preparation for the 7th Annual Meeting of the Balkan Universities Association, scheduled to be hosted by Tuzla University on September 27th-28th 2023.

The meeting provided an opportunity to exchange ideas about the BUA General Assembly and the Rectors' Meeting, which are part of the assembly's agenda, focusing on Balkan-related topics and higher education. Tuzla University was represented by Vice-Rectors Assoc. Prof. Dr. Jasmin Suljagić and Prof. Dr. Damir Zenunović, as well as Mirha Mujkanović from the International Relations Office, and Alan Alagić. Additionally, online participation was enabled for Assoc. Prof. Dr. Sorin Costreie, the Vice-Rector of Bucharest University and the President of the European Capitals University Association.

Prof. Dr. Erhan Tabakoğlu of Trakya University, when reflecting on the ongoing preparations for the 7th BUA General Assembly Meeting hosted by Tuzla University, expressed his gratitude for the generous invitation extended by Prof. Dr. Nermina Hadžigrahić, the esteemed Rector of Tuzla University. He noted, "This opportunity has allowed us to convene and engage in comprehensive discussions regarding the intricacies of our forthcoming General Assembly and the accompanying conference, aptly titled 'Academic Collaboration, Challenges, and Future Perspectives in the Balkans.' Our overarching goal is to expand the horizons of our association through thought-provoking panel discussions, interactive roundtable meetings, and the nurturing of novel collaborations."

"The 7th BUA General Assembly Meeting, slated for September 27-28, 2023, will serve as a crucial forum for the evaluation of higher education in the Balkans and the strategic delineation of future initiatives. This momentous event will find its distinguished host in the esteemed University of Tuzla in Bosnia and Herzegovina."

FACILITATION IN COMPLEXITY – A BOOK BY PROF. RENATA PETREVSKA NECHKOSKA, PHD

Prof. Dr Renata Petrevska Nechkoska from UKLO Faculty of Economics and currently an institutional ERASMUS coordinator, published the book titled *Facilitation in Complexity: from Creation to Co-creation, from Dreaming to Co-dreaming, from Evolution to Co-evolution*, as part of the book series *Contributions to Management Science* for the world's most comprehensive online collection of scientific, technological and medical journals, books and reference works, SpringerLink.

Prof. Petrevska Nechkoska is a professor, and practitioner with considerable both practical and academic experience in Western Balkans and in Europe. After a decade of middle management experience in banking, she moved to the academic world in order to approach tactical management from a multidisciplinary perspective, incorporating strategy and operations, as well as project management with her Denica managerial method. She holds a double PhD degree in Business Economics from Ghent University and in Management from the University "St. Kliment Ohridski" – Bitola. In her role as a project evaluator for the European Commission, as well as numerous voluntary engagements as Head of research at the Western Balkans Alumni Association, project manager for academia at global hackathons, initiator, and facilitator of the Academia Diffusion Experiment she conceptualises, traces, and applies strategic, tactical, and operational management practices in an unpredictable global environment in order to pave the foundations and bridges for co-evolution in this world.

Her latest edition, co-written with Prof. Dr Gjorgji Maneski from UKLO and Prof. Dr Geert Poels from Ughent, is meant to offer conceptual solutions for tackling complex management challenges and discuss tactical management as the distinctive trait for co-creation, via introduction of multi and transdisciplinary management methods applied to diverse domains.



The University of Mostar is an open university, one of the eight public higher education institutions in Bosnia and Herzegovina. Croatian is the official language at our university, and this gives it a strategic role in the development of this part of Bosnia and Herzegovina. The key challenge for the University of Mostar is a strong integration into the European higher education space. Currently, we are the only public university in Bosnia and Herzegovina with European accreditation. We aim to further promote the values of European higher education standards in Bosnia and Herzegovina and thereby contribute to the development of our society and the approach to the European Union.

We are organized into 11 faculties, including the Academy of Fine Arts. We operate in five campuses, and apart from the main campus in Mostar, we have branch campuses in Orašje and Vitez.

Currently, the university employs and collaborates with around 1,100 teaching staff and 240 non-teaching staff. In the last five years, we have appointed 251 assistant professors, 241 senior assistants, 260 associate professors, 165 full professors, and 50 regular professors, as well as 6 lecturers. We are growing and evolving.

This year, we have 10,000 students in three study cycles. We have a rich alumni base, having issued approximately 60,000 diplomas since our establishment, which attests to the importance and strength of the University of Mostar during its 45 years of existence.

Our framework for development and our strategic outlook are contained in the University of Mostar's 2023-2028 Strategy, in which we have defined strategic areas and goals that guide our actions. We were among the first to develop and adopt a digital development strategy for the University of Mostar.

International cooperation is one of the strategic goals of the University of Mostar. With more than 250 partner universities worldwide from 42 countries, membership in 18 European and global academic and research networks, and over a thousand outgoing and incoming mobilities, we guarantee our connection with the most important universities, practices, and experiences worldwide.



NEW RECOGNITION FOR THE UNIVERSITY OF MOSTAR ON THE WORLD RANKING LIST WURI

The World's Universities with Real Impact (WURI) has released a new ranking in which the University of Mostar has achieved significant recognition. It secured the 32nd position in the category of "Fourth Industrial Revolution," ranked between 51-100 in the "Crisis Management" category, and is positioned between 101-200 in the overall ranking. This is a historic achievement for the University and a testament to the efforts invested in its development and visibility, not only within the European educational space but also on a global scale.

The ranking assesses universities' real contributions to society and highlights creative and innovative approaches to university research and education. Leading the ranking are prestigious institutions with centuries-long traditions, such as Harvard University, the University of Oxford, the University of Cambridge, the Massachusetts Institute of Technology, Stanford University, Minerva University, and Princeton

University.

The University of Mostar is the only university from Bosnia and Herzegovina on this ranking, and the University of Split represents the region. Universities are categorized in six areas: industrial application, entrepreneurial spirit, social responsibility, ethics and integrity, student mobility, crisis management, and the fourth industrial revolution

The WURI ranking takes a different approach by recognizing the efforts and results of lesser-known universities that focus on innovative solutions to societal challenges in their environments. In the 101-200 range, along with the University of Mostar, there are institutions like the University of Split, University of Basel, University of Antwerp, University of Padua, Georgia Institute of Technology, and the University of Toronto.

SUM AND THE UNIVERSITY OF NORTH: STRATEGIC DISCUSSIONS ON COLLABORATION WITH PRESTIGIOUS JAPANESE UNIVERSITIES

Representatives from the University of Mostar and the University of North, led by their rectors, Prof. Dr. Zoran Tomić and Prof. Dr. Marin Milković, held strategic meetings with representatives from the University of Tokyo and Kanagawa University in Yokohama. The bilateral cooperation between the University of North and the University of Mostar opens up numerous opportunities for collaboration, improved collaboration outcomes, and the positioning of the universities on a global academic level. The meetings were also attended by Prof. Dr. Tomislav Volarić, Assistant Rector for Information Technologies and Innovations at SUM, and Prof. Dr. Mario Tomiša, Vice Rector of the University Center Koprivnica.

The University of Tokyo is one of the most renowned and largest Japanese universities, founded back in 1877. It comprises 10 faculties with approximately 30,000 students. The university boasts 13 Nobel laureates and nearly half a million graduates. It is ranked 39th

in The World University Rankings, 23rd in the QS World University Rankings, and 10th in The World Reputation Rankings, reflecting its development, reputation, and significance. This also underscores the strategic trilateral collaboration between the University of Tokyo, the University of Mostar, and the University of North. In just four years, teachers and researchers at the University of Tokyo have achieved a citation count of over half a million (536,799), publishing in the most prestigious global scientific journals. All of the above confirms that the University of Tokyo is indeed one of the most renowned and largest universities, not only in Japan but also globally.

During the meetings, there were discussions about potential collaboration in the field of information technology and artificial intelligence, where a common interest in the future and the implementation of these interests through conferences and the exchange of professors and their knowledge were evident.

In the framework of internationalization, the University of Shkodra has signed many collaboration agreements and has been part of many Erasmus Capacity Building and Credit Mobility projects. During the academic year 2022-2023, many members of the academic staff from partner Universities visited the University of Shkodra exchanged visits and shared their academic or administrative expertise with the University staff and students.

- Professors and administrative staff, Aigars Anderson, Leva Gintere, Janis Kalnacs, Andris Lapnas, Janis Bikse, Kapsar Osis, Ilgvars Abols, Inita Sakne and Līga Zariņa from Vidzeme University of Applied Sciences, in Valmiera, Latvia gave lectures and offered their expertise to Shkodra University staff and IT students on 15 -19 May 2023.

- Dr. Giulia Mascagni from Siena University, Italy offered open lectures entitled: "Social services tested by the Pandemic: highlights from a local survey" and "Changing health and care. Ideas to recalibrate the social and health" to the

students of Psychology and Social Work of Shkodra University from 24.04.2023 to 28.04.2023. During her visit, the professor also exchanged her academic and administrative expertise with the academic staff of the Department of Psychology and Social work.

- Prof. Monica de Castro, from University of Complutense, Spain, conducted her mobility for teaching purposes from 16.10.2023 to 20.10.2023 at Shkodra University. Besides, she conducted a study regarding the effect of war conflicts in rural development and nature conservation. During this mobility week, some teaching sessions and other activities such as reflection meetings with experts, professionals, and trainers were organized.

- The open lecture, by Professor Giovanni Messina from the University of Messina, took place at the Faculty of Social Sciences with the students of the history and geography study programs, on 07.06.2023. The topic of the lecture was "Cultural Heritage, City Development and Landscape Values".



65TH ANNIVERSARY OF THE UNIVERSITY OF SHKODRA "LUIGJ GURAKUQI"

The jubilee ceremony of the 65th anniversary of the University of Shkodra "Luigj Gurakuqi" was organized on October 27, 2022. This ceremony took place in the conference hall of the rectorate of USH.

Leading authorities, rectors from partner Universities, academic staff, and guests who have contributed to the University of Shkodra over the years were present in the ceremonial event. Thanks to their contribution, the

University of "Luigj Gurakuqi" was transformed into a very important center of the development of our national education.

The ceremony of the 65th anniversary of the University of Shkodra "Luigj Gurakuqi" turned into a special festive atmosphere and was followed by the scientific conference entitled "New Perspectives on Global Education, Research and Innovation".



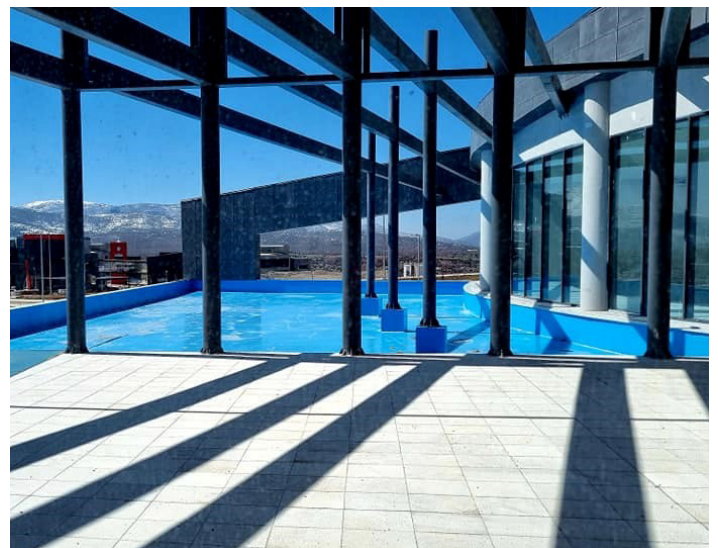
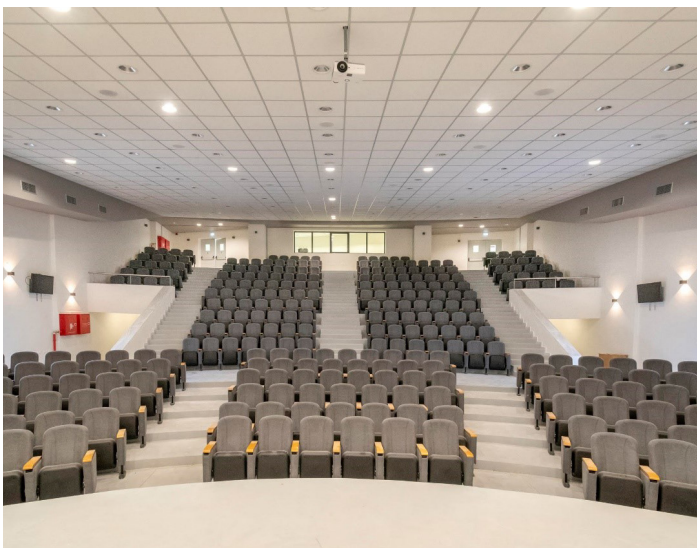
THE UNIVERSITY OF WESTERN MACEDONIA HAS ACQUIRED A NEW, MODERN AND FUNCTIONAL CAMPUS IN KOZANI, INAUGURATED BY THE COUNTRY'S PRIME MINISTER KYRIAKOS MITSOTAKIS IN 2023.

The new UOWM's Campus, the newest campus of European standards in Greece, is an emblematic project for the entire Region of Western Macedonia which includes the administration building, lecture halls, laboratories, offices housing three departments of the School of Engineering (Electrical, Mechanical and Chemical Engineering). It meets University's increasing educational and developmental needs that emerged through its reorganization in 2019, as well as the need to evolve into a modern university of international standards with extroversion and high competitiveness, contributing as a strategic partner of the state to the national goal of a just developmental transition for the Region of Western Macedonia.

The construction of the new campus is of particular importance for scientific, operational and political reasons.

According to the University's Rector, Professor Theodoros Theodoulidis the university will enhance brain gain in Western Macedonia and will turn the region into a case study for other regions in transition to the post-lignite era in Europe.

The project was financed by the European Regional Development Fund and national resources. According to the institution's design, the new campus complex in the Active Urban Planning Zone (ZEP) of Kozani is only the beginning of an ambitious building program that includes for this campus: an extension of education buildings (the relevant study is currently under preparation and funded by the Regional Development Plan of Western Macedonia) and a Green Data Center, a 22 million euro project within the site, funded by the Fair Transition Fund.



TWO INTERNATIONAL DISTINCTIONS FOR THE LABORATORY OF SCENOGRAPHY / COSTUME DESIGN OF THE SCHOOL OF FINE ARTS, UNIVERSITY OF WESTERN MACEDONIA.

Scenography and costume design projects produced by UoWM students of the Fine and Applied Arts were among the participating works in the International Scenography / Costume design online exhibition of the School of Scenography, London. The UoWM students' projects were supervised, organized and coordinated by Tassos Protopsaltou, Adjunct academic staff, Scenography / Costume Design Laboratory of the UoWM Fine and Applied Arts Department.

The distinctions were awarded to the collaborative work of the participating students Lea Kavvadia, Andas Bibiri and Maria Panagiotopoulou, for their work on Anton Chekhov's *Cherry Orchard*, and Giouli Douka, Anastasis Mekeridis, Anta Bibiri and Maria Panagiotopoulou for their scenography and costume design work on the opera *La Traviata* by Giuseppe Verdi. It is worth noting that Giouli Doukas' and Anastasis Mekeridis' work is based on historical buildings and areas in Florina (i.e. the buildings of Agia Olga and the City Hall), in an attempt to create a bond between local elements and international art.

The School of Scenography is focused on international research in Scenography and Costume Design from a practical, theoretical and research perspective. The Scenography / Costume design exhibition has been scheduled to be physically presented in London next March (conditions permitting), or it will take place at a later date.

UoWM Certification according to International ISO standards

The University of Western Macedonia has been certified under ISO 37001:2016, ISO 14001:2017, ISO 26000:2010 and ISO 9001:2015 according to the International Organization of Standardization (ISO) standards.

ISO 37001:2016 specifies requirements and provides guidance for establishing, implementing, maintaining, reviewing, and improving an anti-bribery management system. ISO 37001:2016 addresses the following in relation to the organization's activities:

- bribery in the public, private, and not-for-profit sectors.
- bribery by the organization.
- bribery by the organization's personnel acting on the organization's behalf or for its benefit.
- bribery by the organization's business associates acting on the organization's behalf or for its benefit.
- bribery of the organization.
- bribery of the organization's personnel in relation to the organization's activities.
- bribery of the organization's business associates in relation to the organization's activities.
- direct and indirect bribery (e.g., a bribe offered or accepted through or by a third party).

ISO 14001:2017 specifies the requirements for an environmental management system that an organization can use to enhance its environmental performance. It is intended for use by an organization seeking to manage its environmental responsibilities in a systematic manner that contributes to the environmental pillar of sustainability. Consistent with the organization's environmental policy, the intended outcomes of an environmental management system include:

- enhancement of environmental performance.
- fulfilment of compliance obligations.
- achievement of environmental objectives.

ISO 26000:2010 is intended to:

- assist organizations in contributing to sustainable development.
- encourage them to go beyond legal compliance, recognizing that compliance with law is a fundamental duty of any organization and an essential part of their social responsibility.
- promote common understanding in the field of social responsibility.
- complement other instruments and initiatives for social responsibility, not to replace them.

ISO 9001:2015 contains eight key principles of quality management which is not auditable but do form the fundamental characteristics of quality management:

- customer focus and customer satisfaction
- leadership
- involvement of people
- process approach
- a systematic approach to management
- continual improvement
- factual approach to decision making
- mutually beneficial supplier relationship

UoWM Academic Staff members amongst world's top scientists

A study conducted by Stanford University researchers ranked six UoWM Academic Staff members among the top scientists in the world. The list "Data for updated science-wide author databases of standardized citation indicators" ranks scientists worldwide in all scientific fields considering the impact of their published work in 2019. It includes about 100,000 scientists distinguished worldwide, as well as 2% of the top scientists in the scientific sub-field in which they specialize. The novelty of this study is that the bibliometric indicators that are evaluated include not only the total number of citations and the h-index of the scientists according to the Scopus bibliographic database, but also parameters such as the weighted measurement of the co-authorship and the position of the author in publications.

The six UoWM Academic Staff members are the following:

Name	Department	Scientific Field/Sub-Field
Frontistis Zacharias	Chemical Engineering	Environmental Sciences / Energy
Goula Maria	Chemical Engineering	Physical Chemistry/Energy
Kalogiratou Zacharoula	Informatics	Computation Theory& Mathematics/ General Physics
Koroneos Christoforos	Mechanical Engineering	Environmental Sciences / Energy
Pilavakis Petros	Mechanical Engineering	Mechanical Engineering & Transports / Energy
Tsipouras Markos	Electrical and Computer Engineering	Biomedical Engineering/Medical Informatics

The list also includes scientists whose work has been most cited by peers throughout their careers. In this list the three UoWM Academic Staff members are:

Name	Department	Scientific Field/Sub-Field
Koroneos Christoforos	Mechanical Engineering	Environmental Sciences/ Energy
Pilavakis Petros	Mechanical Engineering	Mechanical Engineering & Transports / Energy
Theodoulidis Theodoros	Mechanical Engineering	General Physics/Applied Physics

These great distinctions reflect the high level and internationally recognized research conducted at the University of Western Macedonia and will be the driving force of high goals achievement.



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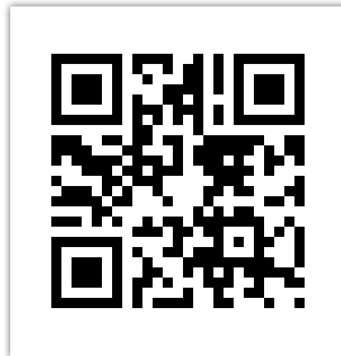
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