

ICMUSTED 2025 PROGRAM

Friday, December 12, 2025

Conference Opening

Conference Hall (Bayburt Teacher's House, Bayburt)

09:45 – 10:00	Registration and Tea/Coffee Service	
10:00 – 10:30	Opening Ceremony	Asst. Prof. Dr. Erman Kadir Oztekin – On Behalf of the Organizing Committee
	Opening Session	Air Quality and Sustainable Development: The Role of Machine Learning in Shaping Future Cities Invited Speaker – Assoc. Prof. Dr. Samsuri Abdullah

Onsite Session

Conference Hall (Bayburt Teacher's House, Bayburt)

Onsite Session – 1 (in Turkish) Head of Session: Asst. Prof. Dr. Erman Kadir Oztekin	
10:30 – 11:30	A Modified Two-Sided Approximation Method for a Special Boundary Value Problem with Delayed Arguments <i>Arzu Aykut*</i> , <i>Fulya Koc Simsek</i>
	AI-Based Intelligent Document Classification in the Logistics Sector <i>Selcuk Zereyalp*</i> , <i>Kemal Sogukcesme</i> , <i>Bahadir Fatih Yildirim</i>
	History of Mobile Communication from 1G to 6G <i>Hanifi Turgut</i> , <i>Tevhit Karacali</i> , <i>Tarik Bugra Ala*</i>
11:45 – 13:15	Will be determined according to the participants' preference.

Online Sessions

Virtual Hall

Online Session – 1 (in Turkish) Head of Session: Asst. Prof. Dr. Duygu Tekin	
13:15 – 14:45	Design, Prototype Production, and Testing of a 12(16) MVA 115/6.3 kV Power Transformer with Twin-Wire Transposed High-Voltage Winding for Loss Reduction <i>Zuhal Isikli*</i>
	Design, Manufacturing, and Testing of a 60 Hz Frequency Distribution Transformer <i>Nadya Atakan*</i>
	Forecasting Daily Mean Temperature in Izmir Using Machine Learning Algorithms <i>Pelin Coskun*</i> , <i>Onur Ugurlu</i> , <i>Orhan Er</i>

	Performance Evaluation of a Luenberger Observer for Sensorless FOC of BLDC Motor <i><u>Beytullah Gokoglan*</u>, Mustafa Tumbek</i>
	Electric Vehicle Charging Scheduling: Time Shift <i><u>Cengizhan Abay*</u>, Hanife Apaydin Ozkan</i>
	Design, Prototype Production, and Testing of a Low-Impedance High Short-Circuit Current 18 MVA 33/33 kV Power Transformer <i><u>Bugra Akpinar*</u></i>
	Fire Safety in Electric Vehicles: An Assessment of Battery Risks, Intervention Techniques, and Policy Recommendations <i><u>Mehmet Akif Er,</u> Omer Kaya*</i>
14:45 – 15:00	Break
Online Session – 2 (in Turkish) Head of Session: Asst. Prof. Dr. Duygu Tekin	
15:00 – 16:30	Use of Aggregates Produced from Waste Concrete Samples of Different Strength Classes in Concrete <i>Melek Demirtas, Omer Ozmen, Rahman Cankaya, <u>Omer Can*</u></i>
	Numerical Modelling of Moisture Loss and Oil Uptake in Noodle Strips During Deep-Fat Frying Using Finite Difference and Finite Element Methods <i><u>Serpil Pekdogan Goztok*</u>, Cihat Guner, Hakan Basdogan, Omer Said Toker</i>
	Investigation of the Usability of Bayburt Yellow Tuff in Structural Lightweight Concrete Production <i><u>Omer Bayrak*</u>, Emin Erdem</i>
	Use of Bayburt White Tuff as Cement Substitute Material <i><u>Omer Bayrak*</u>, Emin Erdem</i>
	Investigation of Parameters Affecting Pedestrian Crossing Speeds: Empirical Findings from Türkiye <i><u>Mehmet Burhan Sume*</u>, Erdem Dogan</i>
	Performance Properties of Lightweight Aggregate Hybrid Foam Concretes <i><u>Selcuk Memis*</u></i>
	The Role of Biodiesel Addition in Reducing Vapor Pressure in Gasoline–Methanol–Ethanol Ternary Blends <i><u>Abdulvahap Cakmak*</u></i>
	Shunt Reactor (without Tap Changer) Design, Manufacturing, and Testing <i><u>Ali Tas*</u></i>
16:30 – 16:45	Break
Online Session – 3 (in Turkish) Head of Session: Asst. Prof. Dr. Ramazan Simsek	

16:45 – 18:15	Use of Bayburt Green-Spotted White Tuff in the Production of Structural Lightweight Concrete <i><u>Omer Bayrak</u>[*], Emin Erdem</i>
	Investigation of the Suitability of Waste Concrete Paving Blocks as Aggregate in Concrete <i>Melisa Kayrak, Arda Sahin, N. Sebnem Karahan, <u>Omer Can</u>[*]</i>
	Spintronics: The Future of Electronics – A Comprehensive Overview of Dilute Magnetic Semiconductors <i><u>Muhammet Arucu</u>[*]</i>
	Investigation of Photon and Neutron Interaction Probabilities of Some Selected High Entropy Alloys <i><u>Bunyamin Alim</u>[*], Erdem Sakar</i>
	Structural and Gamma-Ray Absorption Properties of Newly Developed Ni ₃ Al Based Superalloys <i>Merve Durdag, <u>Bunyamin Alim</u>, Erdem Sakar[*]</i>
	Convergence Analysis for Parallel Iteration Methods <i><u>Yasin Berkay Can</u>[*], Nazli Kadioglu Karaca, Isa Yildirim</i>
	On Nearness Ideals of Nearness Semigroups <i>Mehmet Ali Ozturk, <u>Ozlem Tekin</u>[*]</i>
18:15 – 18:30	Break
Online Session – 4 (in Turkish) Head of Session: Assoc. Prof. Dr. Mehmet Uyar	
18:30 – 20:00	Investigation of Temperature Changes During the Composting of Pomegranate Processing Solid Wastes with the Addition of Bioactivator <i>Kemal Suluk, Fevzi Sevik[*], <u>Barbaros S. Kumbul</u>, Kamil Ekinci</i>
	Effect of Different Reactor Sizes on Mass and Volume Changes in the Composting Process <i>Fevzi Sevik[*], Kemal Suluk, <u>Barbaros S. Kumbul</u>, Kamil Ekinci</i>
	Fungal Intoxications <i>Nesrin Cakici[*], <u>Meltem Asik</u></i>
	The Trifid Incisive (Nasopalatine) Canal is a Rare Variation of the Maxilla <i><u>Burhan Yazar</u>[*], Melike Tasci</i>
	FELVERA: Development of an Web and Mobile Application for Animal Welfare <i>Numan Tugrul Ertugrul, <u>Irem Baysal</u>[*], Semanur Cicek, Vildan Sozen, Zuhul Aslan Akyol</i>
	Smart Platform for Book Swapping, Sales, and Social Interaction <i>Numan Tugrul Ertugrul, <u>Samet Sargin</u>[*], Mehmet Yasa, Umut Temel, Zuhul Aslan Akyol</i>

	Library Automation System with Automatic Penalty and Email Notification Module <i>Zuhal Aslan Akyol, Numan Tugrul Ertugrul, <u>Osman Mert Ergin</u>*</i>
	AI-Based Risk Prediction Model for Airport Ground Operations <i><u>Onur Arslan</u>*</i>
20:00 – 20:15	Break
Online Session – 5 (in Turkish) Head of Session: Assoc. Prof. Dr. Mehmet Uyar	
20:15 – 21:45	Solo Travel Research: A Bibliometric Analysis <i><u>Yeliz Guler</u>*</i>
	Determining Green Transformation Strategies in Businesses Using the SWARA Method <i>Sadrettin Codur, <u>Ahmet Cem Esenlikci</u>*</i>
	Psychological Factors Influencing University Students' Trust In AI-Based Learning Assistants <i>Ezgi Dagtekin, <u>Ercan Erkalkan</u>*</i>
	A Multi-Objective Optimization Approach for Airport Ground Handling and Resource Management Operations <i><u>Seckin Unver</u>*, Merve Gozde Sayin</i>
	Digitalization in Literature, Ergodic Literature, and Hypertexts: An Example from German <i><u>Harun Gocerler</u>*</i>
	Andrzej Wajda: A Political Critique of Danton (1983) <i><u>Ismail Tasar</u>*</i>
	Designing Adaptive Conceptual Stories via Artificial Intelligence for Science and Mathematics Learning <i><u>Ilhan Polat</u>*</i>
	Evaluating the Basic Life Skills Activity Book: Alignment with Life Skills Course Outcomes and the 21st Century Skills Framework <i><u>Ilhan Polat</u>*, Mehmet Akif Ersoz</i>

Saturday, December 13, 2025

Online Sessions

Virtual Hall

Online Session – 6 (in English) Head of Session: Dr. Nurhafizah Hasim	
09:00 – 10:30	EfficientNet with Data Augmentation for Potato Disease Detection and Sustainable Agriculture

	<u>Mansouria Sekkal*</u> , <u>Badir Benkrelifa Lahouaria</u>
	AI-Powered MRI Analysis for Early and Accurate Medical Diagnosis <u>Mansouria Sekkal*</u> , <u>Badir Benkrelifa Lahouaria</u>
	Alginate/Chitosan-Based Nanostructures as Sustainable Nanoprimer Agents for Wheat Seeds <u>Arruje Hameed*</u> , <u>Muhammad Mujahid</u> , <u>Tahir Farooq</u> , <u>Amjad Hameed</u>
	A Natural Ally Against Pine Aphids: <i>Pauesia Silana</i> as a Key Biocontrol Agent of <i>Cinara Maghrebica</i> <u>Leila Bourouba*</u>
	Antagonistic Yeasts as Biocontrol Agents Against Phytopathogenic Fungi <u>Kheira Hiba Benghaffor*</u> , <u>Hadri Zouheyr</u>
	Morphological and Cultural Characterization of <i>Verticillium Dahliae</i> Kleb., the Causal Agent of Verticillium Wilt in Olive (<i>Olea Europaea</i> L.) <u>Saliha Ogab*</u> , <u>Houria Chaalal</u> , <u>Tahar Maza</u> , <u>Fatima Zohra Zoudji</u>
	Role of Edible Coating on Post-Harvest Management of Fruits and Vegetables <u>Tusneem Kausar*</u> , <u>Ashiq Hussain</u>
10:30 – 10:45	Break
Online Session – 7 (in English) Head of Session: Dr. Nurhafizah Hasim	
10:45 – 12:15	Comparison the Values of Reverse Harmonic Index of Two Types Hexagonal Cactus Chain Graphs <u>Mukaddes Okten Turaci*</u>
	Chitosan-Modified Silver-Doped Phosphate Glass: Physical, Structural, and Mechanical Improvements <u>Siti Norfariza Farhana Binti Mohd Razak</u> , <u>Nurhafizah Binti Hasim*</u> , <u>Nur Hidayah Binti Ahmad</u> , <u>Norshahirah Binti Mohamad Saidi</u> , <u>Mohd Fuad Bin Mohamad</u>
	Methylammonium Iodide Doped CMC Electrolyte: A Safer and Environmentally Friendly Solution for Sustainable Power Storage <u>Na'imah Husna Nasaruddin</u> , <u>Nur Hidayah Ahmad*</u>
	A Green Laser Ablation Approach to Ag/Cinnamon Cassia Nanohybrid for Sensitive Colorimetric Glucose Sensing Applications <u>Fitriyatun Naldiyah</u> , <u>Wulandari Dwi Lestari</u> , <u>Adeka Delvis Tama</u> , <u>Muhammad Dimas Adytia Airlangga</u> , <u>Nurul Hidayat*</u>
	Composition-Dependent Thermal, Mechanical, and Electrical Responses of CMC–CA–Glycerol Biopolymeric Films <u>Noorul Ain Binti Kamal Ariffin</u> , <u>Nurhafizah Binti Hasim*</u>
	High-Sensitivity Atrazine Sensor Using Aluminum Plasmonics and Molecular Imprinting

	<i><u>Mohamed Esseddik Ouardi*</u>, Kada Abdelhafid Meradi, Fatima Tayeboun</i>
	Tailoring the Structural, Electrical, and Magnetic Properties of $\text{Ni}_{0.35}\text{Zn}_{0.25}\text{Cd}_{0.4}\text{Fe}_{1.97}\text{Ce}_{0.03}\text{O}_4/\text{GNPs}$ Composites <i><u>Muhammad Ajaz Un Nabi*</u></i>
12:15 – 12:30	Break
Online Session – 8 (in English) Head of Session: Dr. Nurhafizah Hasim	
12:30 – 14:00	Cadmium Sulfide Thin Film-based Photodetector: Fabrication and Photoresponse Evaluation <i><u>Erman Erdogan*</u></i>
	Experimental Evidence of Thermally Activated Transport at the Mobility Edge in 4H Silicon Carbide Metal-Oxide-Semiconductor Field Effect Transistor <i><u>Sabrina Meguellati*</u>, Mustapha Sarra</i>
	Normalized Differential Conduction Analysis of Temperature-dependent Gate Conduction in 4H-SiC MOS Capacitor <i><u>Sabrina Meguellati*</u>, Mustapha Sarra</i>
	Tailoring Phosphate Glass Performance: Structural, Mechanical, and Optical Enhancement via Chitosan Doping <i><u>Nurhafizah Hasim*</u></i>
	Effect of Incorporating Graphene Oxide Nanoparticles on Ion Mobility in Deep Eutectic Polymer Electrolyte <i><u>Siti Norfazleen Farhana Binti Mohd Razak, Norshahirah Binti Mohamad Saidi*</u></i>
	Composability of Nanofillers Carboxymethyl Cellulose Doped Ammonium Thiocyanate for Bioplastic Packaging <i><u>Hazwani Nadirah Zamri, Nur Hidayah Ahmad*</u></i>
	Study of the Dynamic of Benthic Diatom Communities in Response to Water Fluctuations Along Specific Rivers in Skikda Province, North East Algeria <i><u>Hadjer Kaddeche*</u></i>
14:00 – 14:15	Break
Online Session – 9 (in English) Head of Session: Dr. Nurhafizah Hasim	
14:15 – 15:45	Discharge Prediction Using Artificial Neural Networks: A Case Study for the Enoree River, South Carolina, USA <i><u>Betul Mete*</u>, Sinan Nacar, Adem Bayram</i>
	Stream Water Quality Assessment in a Dammed Watershed: A Case Study from North East Türkiye <i><u>Adem Bayram, Betul Mete*</u></i>
	Influence of Single-Layer Tile Waste Sand on Concrete Properties

	<p><i><u>Yasmine Mohamed Bouteben</u>[*], Leila Kherraf</i></p> <p>Optimization of Unconfined Compressive Strength in Stabilized Soils Using Taguchi L9 Design <i><u>Fadila Benayoun</u>[*], Moufida Moussaoui, Souhila Rehab Bekkouche</i></p> <p>Enhancing Facility Layout Design: An Integrated AHP–NLP Approach <i><u>Muhammad Waqas Aslam</u>, Zeqiang Zhang[*]</i></p> <p>Study of Earthquake Ground Motion Duration Recorded in Soft Soils <i><u>Issam Aouari</u>[*], Aicha Rouabeh, Benahmed Baizid, Rachid Bakhti</i></p> <p>Approaches to Enhancing Energy Efficiency through Building Envelope Insulation in Algeria <i><u>Sadia Laidi</u>[*], Sidi Mohamed Karim El Hassar, Achour Mahrane, Rabah Sellami, Ilyas Khelifa Kerfah</i></p>
15:45 – 16:00	Break
<p>Online Session – 10 (in English) Head of Session: Dr. Nurhafizah Hasim</p>	
16:00 – 17:30	<p>Utilising Graph Neural Networks for Research Paper Category Prediction and Similarity Search <i><u>Bengisu Sahin</u>[*], Sedanur Ozer, Emrah Inan</i></p> <p>Leveraging Large Language Models for Event Detection in Water Resources Literature <i><u>Bengisu Sahin</u>[*], Ozge Yaren Turkseven, Emrah Inan</i></p> <p>Degradation Behavior of PET Polymers: Mechanical and FTIR Insights <i><u>Ivana Salopek Čubrić</u>[*], Goran Čubrić</i></p> <p>Structural Performance of Hybrid Composite Patch Repairs in Double Lap Configurations with Unidirectional and Woven Fiber Reinforcements <i><u>Faycal Mili</u>[*], Walid Halloufi, Sarah Guenifa</i></p> <p>Solar-Powered Pneumatic Water Pump: A Sustainable Solution for Water Supply in Off-Grid Areas <i><u>Shoukat Mugheri</u>[*], Touqeer Aslam, Mazhar Ali, Muhammad Kaleem, Umair Mehmood, Ayaz Ali, Ammar Asghar</i></p> <p>Optimizing the Effect of Cow Dung on Swelling Soil <i><u>Marwa Feligha</u>[*], Souhila Rehab Bekkouche, Fadila Benayoun, Fatima Zohra Benamara</i></p> <p>Structural Properties of Ni-Doped ZnO Thin Films Investigated by XRD, AFM, and Profilometry <i><u>Maya Hanane Rezoug</u>[*], Chewki Zegadi, Abdelkader Nouri, Nasr-Eddine Hamdadou, M'hamed Guezzoul</i></p>
17:30 – 17:45	Break

Online Session – 11 (in English) Head of Session: Dr. Nurhafizah Hasim	
17:45 – 19:15	Immobilized Microalgae for Sustainable Soilless Agriculture in the Green Transition <i>Burcu Simsek Uygun, <u>Gizem Demirel</u>*</i>
	Implementation of Open Science Framework for Materials Engineering <i>Elisabeth Viviana Lucero Baldevenites*, <u>Jose Rogelio Fung Corro</u>, Yorlenis Martínez</i>
	Separation of Toluene – Cyclohexane Mixture Using Intensified Extraction Process by Imidazolium-Based Ionic Liquids <i><u>Mohammed Djamel Eddine Allali</u>*, Hassiba Benyounes, Nesrine Amiri</i>
	Study of the Effectiveness of Steel Shavings as a Foaming Agent for the Production of Foams Glass <i><u>Fayrouz Benhaoua</u>*, Djalila Aoufi, Nacira Stiti, Mehdi Toubane, Djedjiga Bousalah</i>
	Electromagnetic Frequency and Time Reaction in Electromechanical Systems Under Low Energy Mechanical Faults <i><u>Azeddine Ratni</u>*, Ali Damou, Djamel Benazzouz, Mohamed Tsebia</i>
	Microstructural and Electrochemical Assessment of Co–Cr Dental Alloys in Ringer Solution <i><u>Alberto Daniel Rico-Cano</u>, Adriana Saceleanu, Anca Fratila, Julia Claudia Mirza-Rosca*</i>
	Electrospinning of Polyacrylonitrile-Nanocellulose Composites Reinforced with Carbon Materials for Advanced Fiber Performance <i><u>Mohd Ali Mat Nong</u>*, Juraina Md Yusof, Suzila Sabil, Mohd Hafizuddin Ab Ghani, Che Azurahaman Che Abdullah</i>
19:15 – 19:30	Break
Online Session – 12 (in English) Head of Session: Asst. Prof. Dr. Latif Akcay	
19:30 – 21:00	Hybrid Voltage Regulation Strategy Combining AVR and Microgrid Coordination for Enhanced Power System Stability <i><u>Fazia Ahcene</u>*, Hamid Bentarzi, Mohammed Tsebia, Djamila Talah</i>
	Next-Generation Deep Learning Architectures for Satellite Image Classification: Integrating Capsule Networks with CNNs and Transformers <i><u>Boucif Beddad</u>*, Samiha Mezrar, Postaire Jack-Gerard</i>
	Harvesting Waste Kinetic Energy from Vehicle Suspensions for Enhanced Mileage and Power Generation <i><u>Touqeer Aslam</u>, Shoukat Ali Mugheri, Ali Azam, Manthar Ali, Abbas Raza</i>

	Development of an Algorithm for Determining the Characteristics of the Ejection System <u>Oleksandr Panevnyk</u> *
	AI-Based Anomaly Detection in Agricultural Farms Using Drone Data and Deep Learning <u>Berrimi Fella</u> *
	Bone Fracture Classification Analysis Base Machine Learning Algorithms <u>Ei Phyu Sin Win</u> *
	Large Language Model-Assisted Hardware Design: Insights from the Ascon-128 Implementation <u>Latif Akcay</u> *

Sunday, December 14, 2025

Online Sessions

Virtual Hall

Online Session – 13 (in English) Head of Session: Dr. Nurhafizah Hasim	
09:00 – 10:30	Indoor Particulate Matter Levels in the Department of Environmental Engineering at Eskisehir Technical University, Türkiye <u>Melike Cengel, Ozlem Ozden Uzmez</u> *
	Seismic Earth Pressures on Retaining Walls: A Comprehensive Review of Analytical, Numerical, and Experimental Approaches <u>Ayman Gharbi</u> *, <u>Fadoua Elkhannoussi</u> , <u>Bouraida Elyamouni</u> , <u>Abdellatif Khamlichi</u>
	Numerical Evaluation of Seismic Performance in Earth Dams: The Case of Fontaine Gazelles Dam, Biskra, Algeria <u>Alaoua Bouaicha</u> *, <u>Aissam Gaagai</u> , <u>Mosbah Ben Said</u> , <u>Ali Hachemi</u>
	Influence of Carbonation on Reinforced Concrete Structures in Southern Algeria <u>Ben Ammar Ben Khadda</u> *
	Numerical Study to the Enhancement of Pressure Distribution within the Alveolus of an Aerostatic Bearing <u>Faiza Ghezali</u> *
	A Comparative Finite Element Analysis of Static Coil Geometries for Electromagnetic Eddy Current Separation <u>Amir Merahi</u> *, <u>Kaouther Boutarfa</u> , <u>Adel Benabboun</u> , <u>Meriem Boumehed</u>
	Contribution to the Recovery of Paint Sludge in Wastewater Treatment <u>Aicha Metali</u> *, <u>Mounir Ziati</u> , <u>Ikram Rebiai</u> , <u>Khedidja Bachi</u>
10:30 – 10:45	Break

Online Session – 14 (in English) Head of Session: Dr. Nurhafizah Hasim	
10:45 – 12:15	Microservice Transformation for Infrastructure Modernization of Payment and Electronic Money Institutions <i>Ahmet Ulker, Cansu Barisici, Eren Capraz, Ilker Ogutcu, Mehmet Bulent Muslu, Zafer Golgeli, <u>Ceren Ulus</u>, M. Fatih Akay*</i>
	Experimental Investigation of Concrete by Using Marble Waste as Replacement of Fine Aggregate <i><u>Hassaan Amjad*</u>, Faisal Ahmed, Allah Noor</i>
	Investigating The Properties Ultra High-Performance Concrete Using Silica Fume and Ground Granulated Blast Furnace Slag <i><u>Hassaan Amjad*</u>, Waseem Asghar, Dawood Jan</i>
	Production of Bioethanol Using Lower-Quality Algerian Sugar Dates Box-Behnken <i><u>Kaouther Zeghida*</u>, Sarra Guilane, Leila Benmansour</i>
	Artificial Intelligence Control of Active and Reactive Power for a Three-Level NPC Inverter Connected to Grid Utility <i><u>Ghrissi Tahri*</u>, Fatima Tahri, Ali Tahri</i>
	Mechanical Properties of Concrete Reinforced with Steel Fiber <i><u>Noshad Ali*</u>, Waqar Ali, Muhammad Hessib</i>
	Influx of Different Growth Geometries on Titanium Thin Film for Medical Applications <i><u>Matteo Bertapelle</u>, Joel Borges, Julia Claudia Mirza Rosca, Filipe Vaz*</i>
12:15 – 12:30	Break
Online Session – 15 (in English) Head of Session: Dr. Nurhafizah Hasim	
12:30 – 14:00	Universal Design of Apparel Labels for People with Visual Impairment <i><u>Ilkay Ozsev Yuksek*</u>, Busra Ozdemir, Izel Kabaagac, Pelin Altay, Sukriye Yuksel Filiz, Nevin Cigdem Gursoy</i>
	Systematic Study of Design and Operating Parameters in Forced Circulation Solar Water Heaters <i><u>Ahmed Remlaoui*</u>, Driss Nehari</i>
	Comparative Study of the Corrosion Resistance of Magnesium and Zinc in Simulated Body Fluid <i><u>Cristina Jimenez-Marcos</u>, Francisco Miguel Sanchez-Sosa, Julia Claudia Mirza-Rosca, Ionelia Voiculescu*, Victor Geanta</i>
	Numerical Investigation of the Behavior of Strip Footings under Eccentric Loading in Non-Homogeneous Clay Soils

	<i><u>Nassima Zatar</u>[*], Alaoua Bouaicha</i>
	Oxidation Behaviors of Nickel-Based Superalloys at 1050 °C <i><u>Saida Bouyegh</u>[*], Samira Tlili</i>
	Recent Progress on Nanomaterial Application for Improving Water-Based Drilling Fluid <i><u>Siti Zulaika Razali</u>[*], Norizah Abdul Rahman, Mohd Hafizuddin Ab Ghani, Siti Hajar Othman, Tan Sin Tee, Robiah Yunus, Umer Rashid</i>
	Valorization of Coal Bottom Ash in Sustainable Lightweight Self-Compacting Concrete <i><u>Ibtissam Boulahya</u>[*], Abedlkadir Makkani</i>
14:00 – 14:15	Break
Online Session – 16 (in English) Head of Session: Asst. Prof. Dr. Sebahat Oztekin	
	Teaching Strategies, Methods, and Techniques Used by Science Teachers <i><u>Ulas Kubat</u>[*]</i>
	The Impact of Out-Door Learning Environments on the Attainment of Objectives in the Teaching-Learning Process <i><u>Ulas Kubat</u>[*], Matthew Price</i>
	Use of Artificial Intelligence by Nursing Students: What Impact on Research Integrity? <i><u>Imane Bettane</u>[*], Mohammed-Yassine Takzima, Amine Mohamed, Asma Sbai, Latifa Adarmouch</i>
14:15 – 15:45	Valorization of Waste Rosehip Seeds – A Green and Novel Procedure <i><u>Abdulkadir Keskin, Betul Akhoroz, Gulin Amasya, Zerrin Sezgin Bayindir, Zekiye Goksel, Seda Kayahan, Yasin Ozdemir, Serpil Takac, Ayse Ezgi Unlu</u>[*]</i>
	Exploring the Determinants of Green Innovation Adoption Among SMEs in Albania <i><u>Anxhela Bakiasi</u>[*], Oljam Dervishi, Merzai Bakiasi</i>
	A Comparative Analysis of Drought Indices Using Remote Sensing and Geospatial Data Processing <i><u>Amar Benlakhdar</u>[*], Abdelmoutia Telli, Nourelhouda Dekhili</i>
	Environmentally Friendly Synthesis, Structural Characterization, Computational Analysis, and Biological Assessment of Benzodiazepine Derivatives <i><u>Samir Hmaimou</u>[*], Marouane Ait Lahcen, Wiam Lahrich, Mohamed Adardour, Mohamed Maatallah, Abdesselam Baouid</i>
15:45 – 16:00	Break
Online Session – 17 (in English) Head of Session: Asst. Prof. Dr. Sebahat Oztekin	

16:00 – 17:30	Enhancing Diesel Desulfurization via Oxidation over Modified USY Zeolite Catalyst <i><u>Louiza Aichaoui</u>[*], Soraya Aidene, Boudjema Hamada</i>
	Volatile Composition and Antioxidant activity of Blue Safflower Oil <i><u>Yasmine Ouali</u>[*], Nacera Dahmani-Hamzaoui, Zahia Ghouila</i>
	Formulation and Characterization of an Ointment Based on Hot Pepper Vegetable Oil <i><u>Saida Touzouirt</u>[*], Selma Kadja, Sylia Badja</i>
	Nanoencapsulation of Eucalyptus Oil for <i>Aedes Aegypti</i> Repellents <i><u>Laura Astorga</u>[*], Gisela Romero, Marina Turrado, Emiliano Nicodemo, Jorge Montanari</i>
	Antimicrobial Evaluation and Phytochemical Analysis of <i>Asphodelus Microcarpus</i> Extract <i><u>Azziza Chabane Chaouch</u>[*], Farid Benkaci-Ali, Samira Tata</i>
	Coagulation-Flocculation of Humic Substances: Effectiveness of Aluminum Sulfate and the Role of Sulfate and Phosphate Salts <i><u>Lynda Hecini</u>[*], Fedia Bekiri, Naima Bacha, Wahida Kherifi</i>
	Citric Acid-Crosslinked CMC Bioplastics: Tuning Flexibility, Strength, and Biodegradation for Sustainable Food Packaging <i><u>Nur Alya Maisarah Binti Mohamad</u>, Nurhafizah Binti Hasim[*]</i>
17:30 – 17:45	Break
Online Session – 18 (in English) Head of Session: Dr. Nurhafizah Hasim	
17:45 – 19:15	On the Thermodynamic Stability of Some Metal Complexes within the Framework of a Density Functional Theory Approach Investigation <i><u>Boulanouar Messaoudi</u>[*], Baian Alkassas</i>
	Inverse Partial Least Squares Regression for the Prediction and Optimization of Carboxyl Group Content in Graphene Oxide <i><u>Soraya Aidene</u>[*], Abdelsattar Osama Elemam Abdelhalim</i>
	Biofunctionalized Gold Nanocomposites from <i>Spatholobus Litoralis</i> for High-Sensitivity Refractive Index Sensing <i><u>Firdausi Nuzulah</u>, Sumini Sumini, Titin Syufairoh, Shalgiana Hayu Krisnanda, Nurul Hidayat[*]</i>
	Mercury Sensing in Fish via Gold-Based SPR and Chitosan Composite Functionalization <i><u>Kada Abdelhafid Meradi</u>[*], Mohamed Esseddik Ouardi, Fatima Tayeboun</i>
	Enhancing the Thermal Stability of Deep Eutectic Polymer Electrolytes Through Nanoparticle Incorporation

	<i>Hazimah Binti Hazman, <u>Norshahirah Binti Mohamad Saidi</u>*</i>
	Comparative Green Synthesis of Zinc Nanoparticles via Pulsed Laser Ablation in Different Liquid Mediums <i>Nur Nadirah Binti Mohd Nor*</i> , <u><i>Fairuz Diyana Binti Ismail</i></u> , <i>Maisarah Binti Duralim</i>
	Study of Electrical Conductivity in Deep Eutectic Solvent Based on Hydrogen Bond Donor and Hydrogen Bond Acceptor Combinations <u><i>Farhan Shazwan Shah Shahbani</i></u> *, <i>Norshahirah Mohamad Saidi, Nurhafizah Hasim, Nur Hidayah Ahmad, Muhammad Amirul Aizat Mohd Abdah</i>
19:15 – 19:30	Break
Online Session – 19 (in English) Head of Session: Asst. Prof. Dr. Latif Akcay	
19:30 – 21:00	Grid-Connected Photovoltaic System with a Three-Level NPC Inverter for Power Quality Enhancement <u><i>Fatima Tahri</i></u> *, <i>Ghrissi Tahri, Ali Tahri</i>
	Dynamic Energy Management of Smart Microgrids Considering Renewable Variability <u><i>Mohammed Tsebia</i></u> *, <i>Hamid Bentarzi, Fazia Ahcene, Djamila Talah, Azeddine Ratni</i>
	Discriminating Natural Modes from Defect Signatures in Rolling Bearings Through Hybrid Vibration Modelling <u><i>Azeddine Ratni</i></u> *, <i>Ali Damou, Djamel Benazzouz, Mohamed Tsebia</i>
	Quantitative Structure–Toxicity Relationship Prediction of Ionic Liquid Toxicity Using an GWO-Optimized Support Vector Machine <u><i>Hayet Abdellatif</i></u> *, <i>Maamer Laidi, Cherif Si-Moussa, Widad Benmouloud, Imane Eulджи</i>
	Numerical Analysis of the Seismic Bearing Capacity of Offshore Shallow Skirted Foundations on Sand Using the Pseudo-Static Approach <u><i>Alaoua Bouaicha</i></u> *
	Leveraging Large Language Models for Transport-Triggered Architecture Processor Design <u><i>Latif Akcay</i></u> *

Monday, December 15, 2025

Online Sessions

Virtual Hall

Online Session – 20 (in English) Head of Session: Dr. Intan Helina Hasan

09:00 – 10:30	Evaluating the Role of Plant Growth-Promoting Rhizobacteria Strains in Boosting the Nutritional Quality of <i>Trifolium Alexandrinum</i> <i>Yousra Debbah*</i> , <i>Mohamed Bencherchali</i> , <i>Saida Messgo-Moumene</i>
	Sustainable Utilization of <i>Mentha Pulegium</i> by-Products: From Cellulose Microfibers to Fermentable Sugars <i>Fatma Bhiri*</i> , <i>Feriel Lessig</i> , <i>Amir Bouallegue</i> , <i>Samira Abidi</i> , <i>Aida Ben Hassen Trabelsi</i>
	Unlocking Aromatic Potential: Tripartite Rhizosphere Interactions Steer Metabolism for Stable Essential Oil Biosynthesis in Citronella Grass <i>Ferota Larasati*</i> , <i>Sudiarso Sudiarso</i> , <i>Nunun Barunawati</i>
	Potential of Plant Waste Ash Supplemented Culture Media for in Vitro Microtuber Induction in <i>Solanum Tuberosum</i> L. <i>Amina Belguendouz*</i> , <i>Benamar Benmahioul</i>
	Effects of Activated Charcoal Supplementation on in Vitro Microtuber Production and Quality in Potato <i>Amina Belguendouz*</i> , <i>Benamar Benmahioul</i>
	Lignocellulosic Biomass Valorization for Biogas Production <i>Samira Abidi*</i> , <i>Arwa Masrouhi</i> , <i>Fatma Bhiri</i> , <i>Aida Ben Hassen Trabelsi</i>
	Nanoencapsulation of Polyphenols from Native <i>Schinus Molle</i> and Non-Native Fruits for Sustainable Plant Growth Promotion <i>Matias Aguilar*</i> , <i>Jorge Montanari</i> , <i>Luciano Gabbarini</i>
10:30 – 10:45	Break
Online Session – 21 (in English) Head of Session: Dr. Siti Zulaika Razali	
10:45 – 12:15	Nurses' Perceptions of Spirituality and Spiritual Care: A Cross-Sectional Study in Kabul, Afghanistan <i>Farzana Mortazavi</i> , <i>Hatice Sutcu*</i>
	The Knowledge and Attitudes of Iranian Nurses About Pain Management <i>Elahe Mohammadian</i> , <i>Hatice Sutcu*</i> , <i>Fatemeh Bahramnezhad</i>
	Exploring the Interplay Between Sulpiride and Physical Activity: Health Sciences Perspectives <i>Hassina Fisli*</i> , <i>Mohamed Lyamine Chelaghmia</i>
	Personalized Nutrition and Food Design <i>Ali Khalfa*</i> , <i>Azzeddine Senouci</i> , <i>Djahira Hamed</i> , <i>Mounir Chihab</i> , <i>Sofiane Bouazza</i> , <i>Bensalah Fatima</i> , <i>Farid Bennabi</i>
	Antibacterial Activity of Lactic Acid Bacteria Strains on Uropathogens <i>Djamila Amamra*</i> , <i>Fadela Chougrani</i> , <i>Mansouria Belhocine</i> , <i>Abdelkader El-Amine Dahou</i>

	<p>Synthesis, Structural Elucidation, and Molecular Modeling Studies of 1,2,4-Triazolo-1,5-Benzodiazepine Diastereoisomers as Promising Anti-Ebola Candidates <i>Marouane Ait Lahcen*</i>, <i>Nouhaila Ait Lahcen</i>, <i>Saad Zekri</i>, <i>Samir Hmaimou</i>, <i>Mohamed Adardour</i>, <i>Ismail Hdoufane</i>, <i>Driss Cherqaoui</i>, <i>Abdesslam Baouid</i></p> <p>Detection of Multi-Drug-Resistant Extended Spectrum β-Lactamase Producing <i>Enterobacteriaceae</i> in Patients with Urinary Tract Infection <i>Anfal Kara*</i>, <i>Naouel Boussoualim</i>, <i>Feryal Belfihadj</i>, <i>Meriem Elkolli</i></p>
12:15 – 12:30	Break
<p>Online Session – 22 (in English) Head of Session: Dr. Intan Helina Hasan</p>	
12:30 – 14:00	<p>Examining the Satisfaction Levels of Patients with Nursing Care in the Internal Medicine Ward <i>Cigdem Koc</i>, <i>Halise Coskun*</i></p>
	<p>Impact of Child-Centered Empowerment on Lifestyle Behaviors in Children with Leukemia <i>Pouran Varvani Farahani</i>, <i>Candan Ozturk</i>, <i>Aziz Eghbali</i>, <i>Atefeh Rezapoor</i></p>
	<p>Identification of Potent Sulfonamide Derivatives Targeting MMP2 through Pharmacophore Ligand-Based Modeling <i>Saad Zekri*</i>, <i>Nouhaila Ait Lahcen</i>, <i>Adnane Ait Lahcen</i>, <i>Wissal Liman</i>, <i>Ismail Hdoufane</i>, <i>Driss Cherqaoui</i></p>
	<p>Valorization of Moroccan Medicinal Biodiversity as a Source of Novel Antileishmanial Agents <i>Mohammed-Yassine Takzima*</i>, <i>Mohamed Echchakery</i>, <i>Mohamed Hafidi</i>, <i>Loubna El Fels</i></p>
	<p>Epidemiological Profile and Phenotypic Characterization of Aminoglycoside-Resistant Clinical Strains in the Setif Region <i>Iman Krache*</i>, <i>Anfal Kara</i>, <i>Naouel Boussoualim</i>, <i>Zineb Daoudi</i>, <i>Noussaiba Douadi</i>, <i>Fatma Gridi</i></p>
	<p>Anti-Bacterial and Anti-Inflammatory Activities of the Mucus of the Snail <i>Helix Aspersa</i> Muller <i>Imene Yahla*</i></p>
	<p>Computer-Aided Drug Discovery of Novel Ebola Virus Glycoprotein Inhibitors: Integrating QSAR, Fragment-Based Design, and Molecular Dynamics <i>Nouhaila Ait Lahcen*</i>, <i>Wissal Liman</i>, <i>Saad Zekri</i>, <i>Mehdi Oubahmane</i>, <i>Ismail Hdoufane</i>, <i>Mohammed Mater Alanazi</i>, <i>Mohamed Maatallah</i>, <i>Driss Cherqaoui</i></p>
14:00 – 14:15	Break
<p>Online Session – 23 (in English) Head of Session: Asst. Prof. Dr. Sebahat Oztekin</p>	

14:15 – 15:45	Biopolymeric Films of HEC/PAADDA Crosslinked with Glutaraldehyde as Controlled Release Systems of Tannic Acid for Antitumoral and Wound Healing Applications <i>Isabela Viudes Rossatto Ferrarezi*</i> , Ingrid Cristine de Sousa Everton, Júlia Monteiro Fernandes, Luca Kiichi Suzuki Trancolin, Lucas Gomes Nascimento, Marcos Elias da Silva Almeida, Maria Carolina Rodrigues Garcia, Mariana Aparecida Vieira, Wesley Aparecido Vicente Luiz, William Capellari Fumegali
	Infertility Among Women in Tebessa (Northeastern Algeria): Anthropometric and Biological Risk Determinants <i>Khalida Abba*</i> , Nassima Toumi-Halaimia, Sawssane Ziani, Ines Benamer, Asma Kraidia
	Impact of Traditional Phytotherapy on Hematological Parameters and Chemotherapy Tolerance in Breast Cancer Patients: A Case-Control Study in Tebessa, Algeria <i>Khalida Abba*</i> , Nassima Toumi-Halaimia, Sawssane Ziani
	Effects of Twin Hearts Meditation Versus Mandala Coloring on Practical Examination Anxiety in Undergraduate Nursing Students <i>Pouran Varvani Farahani*</i> , Samineh Esmailzadeh, Precious Chisom Uzoeghelu, Hatice Sutcu
	Body Image Perception Among Women After Mastectomy <i>Mohamed Khalyfa*</i> , Mohammed-Yassine Takzima, Imane Bettane, Youssef El Allam, Aya Ait Benaim
	In Silico Prediction of the Biological Activity of New Oxazole Derivatives <i>Nadia Hadhoum*</i> , Nassim Haddouche, Yasmine Hannachi, Sabine Herbi
	Circular Economic Model in the Hotel Industry for the Optimization of Solid and Recyclable Waste: Case Study of the City of Essaouira, Morocco <i>Assala Loukili*</i> , Mohamed Hafidi, El Hassan El Mouden, Abdallah Nassour, Nour-El Houda Chafer, Loubna El Fels
15:45 – 16:00	Break
Online Session – 24 (in English) Head of Session: Dr. Mohd Hafizuddin Ab Ghani	
16:00 – 17:30	Food Safety and Microbial Control <i>Ali Khalfa*</i> , Azzeddine Senouci, Djahira Hamed, Mounir Chihab, Sofiane Bouazza, Bensalah Fatima, Farid Bennabi
	Knowledge of Leishmaniasis: A Comparative Review of Morocco and Ethiopia <i>Mohammed-Yassine Takzima*</i> , Mohamed Echchakery, Mohamed Hafidi, Loubna El Fels
	Chemical Profiling and Neuroprotective Activity in Elaeagnaceae Leaves <i>Rayene Bouaita*</i> , Randa Djemil, Samira Bouahlit, Saber Boutellaa, Chourouk

	<i>Babouche, Zineb Bouamrane</i>
	Nickel Sulfate Induced Hepatotoxicity Mediated Through Reactive Oxygen Species Generation and Impairing the Antioxidant Defense in Albino Rats <i><u>Mohamed Khari</u>*</i> , <i>Youcef Bougoutaia</i> , <i>Nadjette Bourafa</i> , <i>Zine Kechrid</i>
	A Green Nanotechnology Approach: Rice Husk-Derived Carbon Quantum Dots (CQDs) for Sustainable Applications <i><u>Mohd Hafizuddin Ab Ghani</u>*</i> , <i>Siti Hajar Othman</i> , <i>Siti Zulaika Razali</i> , <i>Mohd Ali Mat Nong</i> , <i>Josephine Liew Ying Chyi</i> , <i>Nishata Royan Rajendran Royan</i> , <i>Chen Ruey Shan</i> , <i>Johari Abdu Rahim</i>
	Biochar Amendment and PGPR Inoculation Improve Growth, Nutrient Uptake, and Soil Fertility in Millet <i><u>Asma Dahani</u>*</i> , <i>Elmostapha Outamamat</i> , <i>Khalid Oufdou</i> , <i>Loubna El Fels</i>
	Mapping the Physico-Chemical and Microbiological Characteristics of Olive Mill Wastewater Across Morocco: Advancing a Waste-to-Resource Circular Strategy <i><u>Oumaima Dahbane</u>*</i> , <i>Mohamed Hafidi</i> , <i>Mohammed Rhazi</i> , <i>Youness Bouhia</i>
17:30 – 17:45	Break
Online Session – 25 (in English) Head of Session: Asst. Prof. Dr. Mustafa Alptekin Engin	
17:45 – 19:15	Key Scoring Models Used for Performance Evaluation of Employees: A Systemic Review and its Applicability in the Albanian Banking Sector <i>Sllavka Kurti</i> , <i><u>Katerina Vasili</u>*</i>
	Albania's Perspective in Fighting High-Level Corruption Compared to Bulgaria, Before the Technical Closing of EU Accession Negotiations <i><u>Anila Shehi</u>*</i>
	Exploratory Factor Analysis of Mobile Application Usage Among Youth Associations in Malaysia <i>Mohd Hazlami Jusoh*</i> , <i><u>Noor Aisyah Abdul Aziz</u></i> , <i>Mohd Yusri Ibrahim</i>
	Understanding the Role of AI Literacy in Work Engagement: The Mediating Effects of Job Crafting and Job Insecurity, and the Moderating Role of Regulatory Focus <i><u>Ali Jan Shayiq</u>*</i> , <i>Ipek Mete Tonge</i>
	Scientific Integrity in the Era of Artificial Intelligence: Current Knowledge and Challenges for Nursing Education – A Narrative Review <i><u>Imane Bettane</u></i> , <i>Mohammed-Yassine Takzima*</i> , <i>Mohamed Khalyfa</i>
	The Challenges Encountered by Science Teachers in Utilizing Laboratory Facilities <i><u>Ulas Kubat</u>*</i>
	The Chronotopes of Racialized Experience in Toni Morrison's <i>The Bluest Eye</i>

	<u><i>Tulay Dagoglu*</i></u>
19:15 – 19:30	Break
Online Session – 26 (in English) Head of Session: Asst. Prof. Dr. Mustafa Alptekin Engin	
19:30 – 21:00	Structural, Photocatalytic, and Dielectric Properties of ZnO-Phosphate Glass-Ceramics <u><i>Chaima Assamadi*</i></u> , <i>Nourdine El Binna, Mohamed El Masloumi, Abdelaziz El Abiad, Hakima Aouad</i>
	Structural and Optical Characterization of Cellulose Acetate/ZnO Nanocomposite Films <u><i>Asmaa Bessaad*</i></u> , <i>Badreddine Toubal</i>
	Enhanced Activation of Peroxymonosulfate by a Mixed Oxide $\text{Co}_2\text{O}_4\text{-Fe}_2\text{O}_3$ for Sunset Yellow Dye Removal <u><i>Djedjiga Bousalah*</i></u> , <i>Hanane Zazoua, Amel Boudjemaa, Khaldoun Bachari, Nahed Dokhan, Mohamed Zine Messaoud-Bouregghda, Fayrouz Benhaoua</i>
	Applications of MEMS Sensors and Micropneumatics in Automated Systems <u><i>Goran Čubrić*</i></u> , <i>Ivana Salopek Čubrić</i>
	First-Principles Investigation of ABX ₃ Perovskites: Structural and Functional Properties for Spintronic Applications <u><i>Saadiya Benatmane*</i></u>
	Exploring the Thermoelectric Potential of Perchalcogenoborates via DFT-Based Analysis <u><i>Fatima Garadi*</i></u> , <i>Ahmed Al-Amin Ben Kamri, Ben Messaoud Chikh Lakdar</i>

* : Corresponding Author

_ : Presenter

Summary of Sessions

Friday, December 12, 2025		
<i>Conference Hall</i>	<i>Virtual Hall</i>	
Opening Session Onsite Session – 1	Online Session – 1 Online Session – 2 Online Session – 3 Online Session – 4 Online Session – 5	
Saturday, December 13, 2025	Sunday, December 14, 2025	Monday, December 15, 2025
<i>Virtual Hall</i>	<i>Virtual Hall</i>	<i>Virtual Hall</i>
Online Session – 6 Online Session – 7 Online Session – 8 Online Session – 9 Online Session – 10 Online Session – 11 Online Session – 12	Online Session – 13 Online Session – 14 Online Session – 15 Online Session – 16 Online Session – 17 Online Session – 18 Online Session – 19	Online Session – 20 Online Session – 21 Online Session – 22 Online Session – 23 Online Session – 24 Online Session – 25 Online Session – 26