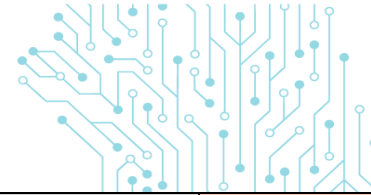


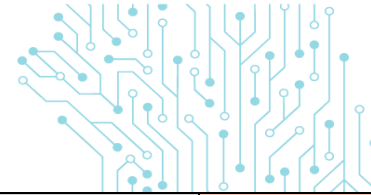
Poster Exhibition: 27 – 29 April, Al Hazm Hall

Track 1: Sustainable Smart Cities and Climate-Flexible Infrastructure	Track 2: Innovation in Electrical, Electronic, and Computer Engineering	Track 3: Environmental Innovation in Water, Waste, and Emissions Management	Track 4: Undergraduate research and innovation	Track 5: Green Hydrogen and Net-Zero Systems	Track 6: Bio- innovations in materials and regenerative engineering
<p>Poster ID (16) INNOVATIONS IN SOLAR CHIMNEY POWER PLANTS: A REVIEW <i>Omran, Harith*</i></p>	<p>Poster ID (152) Anomaly-Based Cyber Threat Detection Using Machine Learning: A Comparative Study of Lightweight Algorithms. <i>Mohammad Abu Kausar*</i></p>	<p>Poster ID (3) Application of artificial intelligence techniques in sports arbitration (tennis) as a model. <i>Zakariya Ammar*</i></p>	<p>Poster ID (4) Development of Flying Jet Plasma Torch for Industrial, Environmental, and Health Applications – Simulation Study. <i>WameathAbdulMajeed*</i></p>	<p>Poster ID (120) Hydrogen production from water electrolysis using dry cell. <i>Hazim Abbas*</i></p>	<p>Poster ID (23) Translucent Concrete. <i>Said Almaawali*</i></p>
<p>Poster ID (27) Designing Thermal Comfort Through Multisensory Biophilic Indoor Landscapes: A Design-Integrated Research Framework for University Campus Atriums in Hot and Arid Climates <i>NasreenDummiShabbir*</i></p>	<p>Poster ID (153) Cyberbullying Detection and Classification Using Machine Learning: A Multi-Class Analysis. <i>Mohammad Abu Kausar*</i></p>	<p>Poster ID (24) Leveraging Geospatial AI Tools to Investigate the Spatial Distribution of Meteorites <i>Khalifa Al-Kindi*</i></p>	<p>Poster ID (8) Automated System for Monitoring and Measuring PUE in Data Center in Oman. <i>Yaqeen Al Hadi*</i></p>		
<p>Poster ID (32) Revisiting BiophiliaA Critical Study of Markus <i>Heinsdorff's</i>Architectural Experiments <i>AdiAlfarei*</i></p>	<p>Poster ID (154) Explainable Edge– Cloud AI for Real- Time Anomaly Detection in IoT Systems. <i>Mohammad Abu Kausar*</i></p>	<p>Poster ID (34) Simulation of Mashrabiya Integration at UON New Campus <i>FatemaAlanqoudi</i></p>	<p>Poster ID (11) Bottled or Tapped? The Sustainability Paradox in Drinking Water Consumption. <i>RuaAlharrasi*</i></p>		



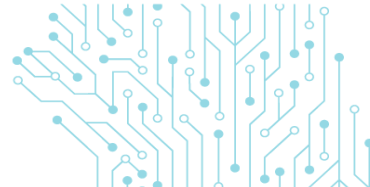
<p>Poster ID (69) Comparative Regression Analysis Study on displacement Ratio of Object Impacting Concrete Structure due to Natural Disaster Circumstances <i>AbdalrhmanMilad*</i></p>		<p>Poster ID (37) Sustainable Valorization of Rejected Lime Kiln Dust as a High-Purity Binder for Soil Stabilization: Technical, Economic, and Environmental Synthesis from an Omani Mineral Plant. <i>Lakhayar AL-Amri*</i></p>	<p>Poster ID (28) Revitalizing Harat Al Nazar, Izki: Toward a Climate-Resilient and Universally Accessible Smart Heritage District. <i>Anfal Al-Khayari*</i></p>		
<p>Poster ID (107) AI-Based Ensemble Model for Real-Time Bus Estimated Time of Arrival Prediction and Urban Transit Optimization <i>NANDHINI T*</i></p>		<p>Poster ID (119) Evaluating the Performance of Chitosan in Garage Wastewater Treatment. <i>Sri Hari Kumar Annamareddy*</i></p>	<p>Poster ID (40) Design and Implementation of a Programmable Logic Controller Using ESP32. <i>Jamin Santiago*</i></p>		
<p>Poster ID (109) Implementing Sustainable Construction and Demolition Waste Management in the Omani Construction Industry: Adopting Circular Economy-An Overview <i>ShakilaJaved*</i></p>		<p>Poster ID (147) Utilization of Omani Date Palm Fibers for Industrial Wastewater Treatment. <i>Mohammad Kamal Hossain*</i></p>	<p>Poster ID (75) CO₂ Capture by Alkaline Solution Using a Semi-Batch Column. <i>Salam Al-Dawery*; Aya Hussam Al-Mhaid, Sundus Samir AL-Sariri</i></p>		
<p>Poster ID (116) Thermal Comfort and Climate-Responsive Design: A Comparison between Traditional and Modern Omani houses towards Sustainable Residential Architecture. <i>AlyaziyaAlmandari*</i></p>		<p>Poster ID (155) Ceramic Factory Waste Utilization as Partial Replacement of Cement in Concrete Mix Design: A Case Study of Al-Nawar Factory. <i>Said Saif Salem AL Maawali*</i></p>	<p>Poster ID (82) Life Cycle Cost Analysis of Sustainable Ground Improvement of Desert Sand <i>Qureshi, Mohsin*; AlFazari, Shama; ALAmri, Fatma; ALHakmani, Sheikha; AL-Ajmi, Kawther; Abdelsalam, Jumana; ALShibli, Bayan</i></p>		





<p>Poster ID (130) Biosolar Green Roof Systems for Net-Zero Buildings in Oman: Integrating Solar Energy with Native Vegetation for Sustainable Urban Development <i>Muntasar Al-Manji*</i></p>			<p>Poster ID (85) Development of Semi-Synthetic Leather from Aloe Vera Gel for Sustainable Material Applications. <i>NawarAlrushadi*</i></p>		
<p>Poster ID (136) Thermal Resiliency and Passive Survivability of Residential Buildings Under Compound Heat Phenomena in Future Climate Scenarios: A systematic Review and Quantitative Synthesis without Meta- Analysis <i>AhadollahAzami*</i></p>			<p>Poster ID (92) Reframing Smart Cities: Climate Responsive and Human-Centric Urban Strategies in relation to UAE and Oman. <i>Shayontika Nandi*</i></p>		
<p>Poster ID (138) Sustainable Zero-Energy Tourism Complex Design Along the ZayandehRud Dam Lake, Isfahan, Iran <i>AhadollahAzami*</i></p>			<p>Poster ID (102) Design and Fabrication of Orbital 3d Photogrammetry Rig for Wide Angle Scanning. <i>PrabakaranThiyagarajan*</i></p>		
<p>Poster ID (151) Secure Predictive Maintenance for Smart Cities: A Blockchain-Enabled Digital Twin and AI Framework <i>SallamKhairy*</i></p>			<p>Poster ID (137) Optimal Energy Efficient Design in Residential Building Exemplified for Adana, Türkiye <i>Alcar, Mustafa Günan ; Azami, Ahadollah*</i></p>		





<p>Poster ID (163) Integrating Load Forecasting and Multi-Objective Optimization for Efficient Planning of Radial Distribution Systems <i>Mohamed Abdelghani*</i></p>			<p>Poster ID (145) The Synthesis of Fuel Additives Under Acidic Catalysts. <i>Sara Al Subeihi*</i></p>		
<p>Poster ID (166) Plasma-Assisted Synthesis of Biodiesel from Citrus Colocynthis oil using Ionic Liquid Catalysts <i>Yasir A. Elsheikh; Anfal J. Alrahbi; Rayan B. Ahmed</i></p>			<p>Poster ID (150) BayanSynth: Arabic Text-to-Speech Synthesis through Parameter-Efficient Fine-Tuning of a Multilingual LLM-Based Model. <i>Vijayalakshmi K*</i></p>		

