



جامعة نِزْوَى  
University of Nizwa

# International Conference on Creative Engineering & Emerging Technologies

ICCEET 2026

27–29 April 2026

University of Nizwa, Initial Campus, Nizwa, Oman

## CONFERENCE PROGRAM SCHEDULE OVERVIEW

Conference DAY 1 - Monday, 27 April 2026

08:00 – 9:50AM Registration and Welcome Coffee– Al Hazm Hall

Time	Event
10:00 AM	Host Welcome
10:05 AM	Quran Recitation
10:10 –10:15AM	UoN Video Presentation
10:15 –10:25AM	Welcome Address — Dr. Rashid Al Abri, ICCEET Chair, Dean, College of Engineering and Architecture
10:25 –10:45 AM	Keynote speech 1 Engineering a Greener World is not a Technology Problem - It is a Systems Leadership Challenge Dr. Abdullah Sulaiman Al-Abri, VP Sustainability, Sohar Port/Freezone
10:50 –11:25 AM	Panel discussion session, organized by Majan Council (Topic: Building Oman’s Green Industrial Future: Innovation, R&D, and Local Manufacturing as Engines of Economic Transformation)
11:30 –11:45 AM	Vote of thanks
11:45 – 12:25 PM	Opening of Poster Exhibition — Al Hazm Hall
12:25 –01:15 PM	Lunch(Al Hazm Hall) and Prayer break

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><b>Poster ID (16)</b> INNOVATIONS IN SOLAR CHIMNEY POWER PLANTS: A REVIEW <i>Omran, Harith*</i></p>	<p><b>Poster ID (152)</b> Anomaly-Based Cyber Threat Detection Using Machine Learning: A Comparative Study of Lightweight Algorithms. <i>Mohammad Abu Kausar*</i></p>	<p><b>Poster ID (3)</b> Application of artificial intelligence techniques in sports arbitration (tennis) as a model. <i>Zakariya Ammar*</i></p>	<p><b>Poster ID (4)</b> Development of Flying Jet Plasma Torch for Industrial, Environmental, and Health Applications – Simulation Study. <i>WameathAbdulMajeed*</i></p>	<p><b>Poster ID (120)</b> Hydrogen production from water electrolysis using dry cell. <i>Hazim Abbas*</i></p>	<p><b>Poster ID (23)</b> Translucent Concrete. <i>Said Almaawali*</i></p>
<p><b>Poster ID (27)</b> 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><b>Poster ID (153)</b> Cyberbullying Detection and Classification Using Machine Learning: A Multi-Class Analysis. <i>Mohammad Abu Kausar*</i></p>	<p><b>Poster ID (24)</b> Leveraging Geospatial AI Tools to Investigate the Spatial Distribution of Meteorites <i>Khalifa Al-Kindi*</i></p>	<p><b>Poster ID (8)</b> Automated System for Monitoring and Measuring PUE in Data Center in Oman. <i>Yaqeen Al Hadi*</i></p>		
<p><b>Poster ID (32)</b> Revisiting BiophiliaA Critical Study of Markus <i>Heinsdorff's</i>Architectural Experiments <i>AdiAlfarei*</i></p>	<p><b>Poster ID (154)</b> Explainable Edge–Cloud AI for Real-Time Anomaly Detection in IoT Systems. <i>Mohammad Abu Kausar*</i></p>	<p><b>Poster ID (34)</b> Simulation of Mashrabiya Integration at UON New Campus <i>FatemaAlanqoudi</i></p>	<p><b>Poster ID (11)</b> Bottled or Tapped? The Sustainability Paradox in Drinking Water Consumption. <i>RuaAlharrasi*</i></p>		
<p><b>Poster ID (69)</b> Comparative Regression Analysis Study on</p>		<p><b>Poster ID (37)</b> Sustainable Valorization of Rejected Lime Kiln Dust as a</p>	<p><b>Poster ID (28)</b> Revitalizing Harat Al Nazar, Izki: Toward a</p>		



displacement Ratio of Object Impacting Concrete Structure due to Natural Disaster Circumstances <i>AbdalrhmanMilad*</i>		High-Purity Binder for Soil Stabilization: Technical, Economic, and Environmental Synthesis from an Omani Mineral Plant. <i>Lakhayar AL-Amri*</i>	Climate-Resilient and Universally Accessible Smart Heritage District. <i>Anfal Al-Khayari*</i>		
<b>Poster ID (107)</b> AI-Based Ensemble Model for Real-Time Bus Estimated Time of Arrival Prediction and Urban Transit Optimization <i>NANDHINI T*</i>		<b>Poster ID (119)</b> Evaluating the Performance of Chitosan in Garage Wastewater Treatment. <i>Sri Hari Kumar Annamareddy*</i>	<b>Poster ID (40)</b> Design and Implementation of a Programmable Logic Controller Using ESP32. <i>Jamin Santiago*</i>		
<b>Poster ID (109)</b> Implementing Sustainable Construction and Demolition Waste Management in the Omani Construction Industry: Adopting Circular Economy-An Overview <i>ShakilaJaved*</i>		<b>Poster ID (147)</b> Utilization of Omani Date Palm Fibers for Industrial Wastewater Treatment. <i>Mohammad Kamal Hossain*</i>	<b>Poster ID (75)</b> CO <sub>2</sub> Capture by Alkaline Solution Using a Semi-Batch Column. <i>Salam Al-Dawery*; Aya Hussam Al-Mhaid, Sundus Samir AL-Sariri</i>		
<b>Poster ID (116)</b> Thermal Comfort and Climate-Responsive Design: A Comparison between Traditional and Modern Omani houses towards Sustainable Residential Architecture. <i>AlyaziyaAlmandari*</i>		<b>Poster ID (155)</b> 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>	<b>Poster ID (82)</b> 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>		
<b>Poster ID (130)</b> Biosolar Green Roof Systems for Net-Zero			<b>Poster ID (85)</b> Development of Semi-Synthetic Leather		

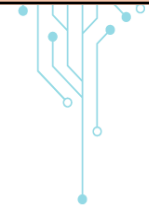


Buildings in Oman: Integrating Solar Energy with Native Vegetation for Sustainable Urban Development <i>Muntasar Al-Manji*</i>			from Aloe Vera Gel for Sustainable Material Applications. <i>Nawar Alrushadi*</i>		
<b>Poster ID (136)</b> Thermal Resiliency and Passive Survivability of Residential Buildings Under Compound Heat Phenomena in Future Climate Scenarios: A systematic Review and Quantitative Synthesis without Meta- Analysis <i>AhadollahAzami*</i>			<b>Poster ID (92)</b> Reframing Smart Cities: Climate Responsive and Human-Centric Urban Strategies in relation to UAE and Oman. <i>Shayontika Nandi*</i>		
<b>Poster ID (138)</b> Sustainable Zero-Energy Tourism Complex Design Along the ZayandehRud Dam Lake, Isfahan, Iran <i>AhadollahAzami*</i>			<b>Poster ID (102)</b> Design and Fabrication of Orbital 3d Photogrammetry Rig for Wide Angle Scanning. <i>PrabakaranThiyagarajan*</i>		
<b>Poster ID (151)</b> Secure Predictive Maintenance for Smart Cities: A Blockchain-Enabled Digital Twin and AI Framework <i>SallamKhairy*</i>			<b>Poster ID (137)</b> Optimal Energy Efficient Design in Residential Building Exemplified for Adana, Türkiye <i>Alcar, Mustafa Günan ; Azami, Ahadollah*</i>		
<b>Poster ID (163)</b> Integrating Load Forecasting and Multi-Objective Optimization for Efficient			<b>Poster ID (145)</b> The Synthesis of Fuel Additives Under Acidic Catalysts. <i>Sara Al Subeihi*</i>		





Planning of Radial Distribution Systems <i>Mohamed Abdelghani*</i>					
<b>Poster ID (166)</b> Plasma-Assisted Synthesis of Biodiesel from Citrus Colocynthis oil using Ionic Liquid Catalysts <i>Yasir A. Elsheikh; Anfal J. Alrahbi; Rayan B. Ahmed</i>			<b>Poster ID (150)</b> BayanSynth: Arabic Text-to-Speech Synthesis through Parameter-Efficient Fine-Tuning of a Multilingual LLM-Based Model. <i>Vijayalakshmi K*</i>		



**01:15 –04:00 PM: Afternoon session, as per below details:**

<b>Time</b>	<b>Event</b>
<b>01:15 –01:18 PM</b>	<b>Welcoming speech (Plenary),by chair of the session</b>
<b>01:20-01:40 AM</b>	<b>Keynote speech 2</b>
<b>01:45 – 02:45 PM</b>	<b>Tracks presentations and discussions session 1 Venue: Building 2A – Rooms 2A2, 2A3, 2A5 - 2A8</b>
<b>02:47 –02:57 PM</b>	<b>Coffee break Venue: Building 2A – Al Masharq Hall – Service Room</b>
<b>03:00 - 03:45 PM</b>	<b>Tracks presentations and discussions session 2 Venue: Building 2A – Rooms 2A2, 2A3, 2A5 - 2A8</b>
<b>03:45 PM</b>	<b>End of DAY I</b>

<b>Track Name Sustainable Smart Cities and Climate-Flexible Infrastructure</b>			
<b>Link for online participants</b>	<a href="#">Track 3 - Sustainable Smart Cities and Infrastructure   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Day I</b>	<b>Monday 27 April 2026</b>		
<b>Room No.</b>	<b>2A-2</b>		
<b>Chair</b>	<b>Prof. Subhi Aziz Ali</b>		
<b>Evaluator</b>	<b>Dr. Fahad Al Riyami</b>		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
1	Life Cycle Assessment Applications for Carbon Emission in Logistics	Gasim Hayder; Abdallah Elsayed Eid	01:45 – 02:00 PM
17	Comparative Evaluation of Extreme Value Methods for Basic Wind Speed Estimation in Oman	Fahad Sultan Habib Ambusaidi; Said Saif Salem AL Maawali; GasimHayder	02:00 - 02:15 PM
19	Adoption of Sustainable Transport and Work From Home Policies for Smog Mitigation in Lahore, Pakistan	Muhammad Javid; SaadiaTabassum; HinaSaleemi; Muhammad Abdullah; Nazam Ali	02:15 - 02:30 PM
35	Natural shading strategies for parking lots: A Simulation Case Study for Nizwa University	Lamyaa Al Jahwari; Mohammed Al Kazeer	02:30 - 02:45 PM
<b>Coffee break</b>			02:45 - 02:45 PM
46	Evaluating urban heat island mitigation scenarios in a cultural heritage context: a multimethod case study of the Lulli block, Milan	Elisabetta Rosina	03:00 - 03:15 PM
47	Tunnels and Underground Spaces as Enablers of Green Cities: Sustainability Pathways and a Planning Framework	AbdolhadiGhazvinian; SinaRostamabadi	03:15 - 03:30 PM
66	Development of a Low-Cost Plastic Waste Melting System for Sustainable Composite Block Fabrication	Mudassir Syed*	03:30 - 03:45 PM

Track Name Innovation in Electrical, Electronic, and Computer Engineering			
Link for online participants	<a href="#">Track 4 - Electrical, Electronic and Computer Adva   International Conference on Sustainable Technology - University of Nizwa</a>		
Day I	Monday 27 April 2026		
Room No.	2A-3		
Chair	Dr. Aishabinti Abu Bakar		
Evaluator	Dr. Mohammed Ezzat		
Paper ID	Paper Title	Authors	Time
2	Data Management Methodologie for Smart Deep Learning Under Weka Software	Mujammal Ahmed Hasan*; Albasheri, Mohammed Abdulelah ; Wira, Patrice; Abdelhafidh , Moualdia; Boulkhrachef , Salah	01:45 – 02:00 PM
10	Risk assessment and threat modeling for vr-based educational platforms using moodle	Arsetmavi , QassimKadhim Jabbar1*; S. Toshchev, Alexander	02:00 - 02:15 PM
25	IoT Based Smart Electric Vehicle (EV) for Flexible Operation and Monitoring	Syed Mohammad, Karimulla*	02:15 - 02:30 PM
58	Artificial Intelligence (AINN) based Levenberg–Marquardt Method for optimizing heat transfer in Unsteady MHD Laminar flow of Al <sub>2</sub> O <sub>3</sub> and TiO <sub>2</sub> Hybrid Nanofluid Over an Elongating Sheet	Anjum, Asra*; Peerusab, Samdani; Gaffar, Shaik Abdul	02:30 - 02:45 PM
<b>Coffee break</b>			02:45 - 02:45 PM
26	Paraffin wax applied Solar Panels output power examine by using UAV in Oman	Syed Mohammad, Karimulla*	03:00 - 03:15 PM
29	Predicting Cell Downlink Throughput in 5G and Beyond Wireless Networks using Machine Learning Models	Abushattal,Abdelrahman*; AlHamadanieh, Lina ; Ghareeb, Saja ; Malkawi, Raneem	03:15 - 03:30 PM
30	Study and design of an efficient Hybrid solar and wind energy for an	Alaraimi, Abdulrahman ; Al Khamisi, Waleed ;	03:30 - 03:45 PM

off-grid system in Masirah Island in Oman	AlBusaidi, Ahmed*; Kauser, Huda
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<b>Track Name Environmental Innovation in Water, Waste, and Emissions Management</b>			
<b>Link for online participants</b>	<a href="#">Track 2 - Environmental Innovation, Water, Waste,   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Day I</b>	<b>Monday 27 April 2026</b>		
<b>Room No.</b>	<b>2A-5</b>		
<b>Chair</b>	<b>Prof. Salam Kadhim</b>		
<b>Evaluator</b>	<b>Mr. Hussein Al Mufargi</b>		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
50	Life Cycle Break-Even Analysis of Borate Salt-Based High-Temperature CO <sub>2</sub> Capture Systems	Mohan, Sooraj*; Pijakala, Dinesha	01:45 – 02:00 PM
51	From Biomass to Carbon Capture: Hydrothermal Carbonization-Activated Hydrochar with Life Cycle Assessment	Pijakala , Dinesha*; Mohan, Sooraj	02:00 - 02:15 PM
52	Eco-Friendly Lubrication of Diesel Engines Using Jatropha Bio-Lubricant with Carbon Nanotube Additives	Kumar, Shiva	02:15 - 02:30 PM
38	Emerging Genetic Programming in Water Engineering	DanandehMehr, Ali*; Tur, Rifat; S, Adarsh	02:30 - 02:45 PM
<b>Coffee break</b>			02:45 - 02:45 PM
39	Smart Waste Segregation System for Sustainable Waste Management	Alsahhi, Wasan	03:00 - 03:15 PM
42	Hybrid Leachate Treatment with Date Pit Tannins and Persulfate AOP: A Statistical Approach	AlrashdiShabib	03:15 - 03:30 PM

43	Environmental Assessment and CO <sub>2</sub> Emission Reduction Potential of Mesquite Tree Ash as a Supplementary Cementitious Material	Nassef, Ahmad*	03:30 - 03:45 PM
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Track Name Undergraduate research and innovation			
Link for online participants	<a href="#">Track 6 - Undergraduate Research and Innovation   International Conference on Sustainable Technology - University of Nizwa</a>		
Day I	Monday 27 April 2026		
Room No.	2A-6		
Chair	Dr. IslamMostafa		
Evaluator	Dr. VenkataRatnam Myneni		
Paper ID	Paper Title	Authors	Time
21	Sustainability Practices in Green Campus Initiative	Said Khamis Al Hadi, Hanoof ; Hayder, Gasim*; Muthusamy, Khairunisa	01:45 – 02:00 PM
6	CO <sub>2</sub> Capture by Alkaline Solution Using a packed bed Column	Al-Dawery, Salam*; AL-Uraimi, Asma; AL-Azri , Yomna	02:00 - 02:15 PM
33	Impact of TeO <sub>2</sub> Substitution for B <sub>2</sub> O <sub>3</sub> on the Structural and Optical Properties of MgO–BaO–Borate–Tellurite Glasses	Peerusab, Samdani*	02:15 - 02:30 PM
45	Eco-friendly Recycled Aggregate EAFS Concrete	Nassef, Ahmad*	02:30 - 02:45 PM
Coffee break			02:45 - 02:45 PM

49	Design and Development of an AI and IoT-Enabled Smart Helmet for Real-Time Worker Safety Monitoring	Khurram, Muhammad*	03:00 - 03:15 PM
71	Agriculture Indices to Detect Dubas Bug Infestation: case study in University of Nizwa	Alyaqoubi, Sumaia*; Al Kindi, Khalifa Mohammed; Al Kindi, Basama Nasser	03:15 - 03:30 PM

## Track Name Green Hydrogen and Net-Zero Systems

<b>Day I</b>	<b>Monday 27 April 2026</b>		
<b>Link for online participants</b>	<a href="#">Track 1 - Green Hydrogen and Net-Zero Systems   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Room No.</b>	2A-7		
<b>Chair</b>	Dr. Venkateswarlu Sunkari		
<b>Evaluator</b>	TBD		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
5	Eco-Innovative Solar System for Coupled Water Purification and Hydrogen Generation: Efficiency and Performance Analysis	Namdeti, Rakesh*; Al-Kathiri, DoaaDuaa Salim Musallam	01:45 – 02:00 PM
41	AI-Optimized Green Hydrogen Production from Biomass and Wastewater, and Integrated CO <sub>2</sub> Capture Pathways via Solar-Fenton and Natural Catalysts	Alrashdi, Shabib	02:00 - 02:15 PM
60	A Techno-Economic Insights into Australia's Hydrogen Energy Export Future	Khalilpour, Kaveh	02:15 - 02:30 PM
			02:30 - 02:45 PM

<b>Coffee break</b>			02:45 - 02:45 PM
79	Hydrogen and Natural Gas in Energy Transition: A Comparative Decarbonization Perspective	Khan, Muhammad	03:00 - 03:15 PM
83	Decarbonizing Hydrogen Production from SMR Process in Oman: Comparative CO <sub>2</sub> Capture Techno-economic and Multi-Criteria Decision Assessment	Al Salmani, Shaima	03:15 - 03:30 PM
			03:30 - 03:45 PM

<b>Track Name Bio-innovations in materials and regenerative engineering</b>			
Link for online participants	<a href="#">Track 5 - Bio-innovations in Materials and Regener   International Conference on Sustainable Technology - University of Nizwa</a>		
Day I	Monday 27 April 2026		
Room No.	2A-8		
Chair	Dr. Kamal Yousuf		
Evaluator	Dr. Sameer Al Qeisi		
Paper ID	Paper Title	Authors	Time
76	Sustainable Soil Stabilization Using Date Seeds: Experimental and Numerical Analysis of Silty Soil in Al Ghubrat Nizwa Oman	Imran Latif Qureshi, QadirBux ; Al Hilali, Hoor Saud Sulaiman; Ibrahim, SubhiAzeez *	01:45 – 02:00 PM
84	Development of Cryomicroneedle Technology for Intradermal Cell Delivery	XU, Chenjie	02:00 - 02:15 PM
87	Engineering GAG-rich proteoglycan-like biomaterials	CHAN, Barbara*	02:15 - 02:30 PM
103	Evaluating performance through the implementation of a fit manufacturing strategy aimed at enhancing sustainability in	Wan Yusoff, Wan Ahmad Yusmawiza*	02:30 - 02:45 PM

	participating manufacturing firms in Malaysia		
<b>Coffee break</b>			02:45 - 02:45 PM
104	Rapid Prototyping in Malaysian Higher Education: A Systematic Survey of Technologies, Benefits, and Institutional Challenges	Wan Yusoff, Wan Ahmad Yusmawiza*	03:00 - 03:15 PM
105	The Combined Effect of Raw River Water Influent Sludge as Admixture and Organic Fly Ash as Cement Replacement on Concrete Paver Blocks	Wan Inn, Goh*; Imran Latif Qureshi, QadirBux	03:15 - 03:30 PM
			03:30 - 03:45 PM

## Conference DAY 2: Tuesday 28 April 2026

**09:00 AM–12:15 Noon: Morning Session (Plenary), as per below details:**

Time	Event
09:00	<b>Welcoming speech</b> <b>Venue: Building 2A – Al Masharq Hall</b>
09:05-09:25	<b>Keynote speech 3, Online</b> <b>Venue: Building 2A – Al Masharq Hall</b>
09:30–09:50AM	<b>Keynote speech 4</b> <b>Venue: Building 2A – Al Masharq Hall</b>
09:50–10:00 AM	<b>Coffee break</b> <b>Venue: Building 2A – Al Masharq Hall – Service Room</b>
10:00–10:20AM	<b>Keynote speech 5</b> <b>Venue: Building 2A – Al Masharq Hall</b>
10:25–11:10AM	Panel discussion session, organized by Oman Chamber of Commerce & industry Title: Engineering Synergy: Synchronizing Academic Innovation with National Industrial Goals <b>Venue: Building 2A – Al Masharq Hall</b>
10:25–11:10 AM	<b>Workshops session I</b> <b>Venue: Building 2A –Rooms 2A2, 2A3, 2A5 - 2A8</b>
11:15–12:00 PM	<b>Tracks presentations and discussions session 3</b> <b>Venue: Building 2A – Rooms 2A2, 2A3, 2A5 - 2A8</b>
12:00 –01:00 PM	<b>Lunch (Al Masharq Hall), Prayer Break</b>

**01:00 –02:45 PM: Afternoon session, as per below details:**

01:00 – 01:08 PM	<b>Welcoming speech (Plenary) by chair of the session</b> Venue: Building 2A – Al Masharq Hall
01:10 – 01:30 AM	<b>Keynote speech 6, Online</b> Venue: Building 2A – Al Masharq Hall
01:35 – 01:45 PM	<b>Coffee break</b> Venue: Building 2A – Al Masharq Hall – Service Room
01:45 – 02:45 PM	<b>Tracks presentations and discussions session 4</b> Venue: Building 2A – Rooms 2A2, 2A3, 2A5 - 2A8
02:45 PM	<b>End of DAY II</b>

<b>Track Name</b>	<b>Sustainable Smart Cities and Climate-Flexible Infrastructure</b>		
Link for online participants	<a href="#">Track 3 - Sustainable Smart Cities and Infrastructure   International Conference on Sustainable Technology - University of Nizwa</a>		
Day II	Tuesday 28 April 2026	Morning sessions	
Room No.	2A-2		
Chair	Dr. Abel Rahman Milad		
Evaluator	Dr. Ali Almuhtashmi		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
48	Digital Revival and Preserving Mosul's Heritage Through Virtual Museums	Mohammed Abdullah; IsmaeelEmad	11:15 – 11:30 AM
54	Effect of Tin Tailing as Fine Aggregate Replacement on Compressive strength and Fire Resistance of Mortar	Ahmad, Norasyimah; Muhammad, Mahanon; Ghazali, Norhaiza; Abu Bakar, Aishah; Muthusamy, Khairunisa*	11:30 - 11:45AM
55	Micro-Housing as an Urban Catalyst - Steel-Based Studio Units as Scalable, Low-Carbon, People-Centred Housing Infrastructure	Sebastian, Sofia	11:45–12:00 PM

<b>Track Name</b>	<b>Sustainable Smart Cities and Climate-Flexible Infrastructure</b>		
Link for online participants	<a href="#">Track 3 - Sustainable Smart Cities and Infrastructure   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Day II</b>	<b>Tuesday 28 April 2026</b>	<b>Afternoon sessions</b>	
<b>Room No.</b>	<b>2A-2</b>		
<b>Chair</b>	<b>Dr. Abel Rahman Milad</b>		
<b>Evaluator</b>	<b>Dr. Ali Almuhtashmi</b>		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
57	Pavement Condition Assessment and Potential Maintenance Strategies: A Case Study of Roads in Yanbu Light Industrial Park, Madinah Region	Mohd Hasan, MohdRosli*; Sindi, Wadea; Sougui, OumarOrozi; MohdGhazali, MohdFahmiHaikal ; Al-Mufargi, Hussein	01:45 – 02:00 PM
61	A Big Data Trained ANN Framework for Voltage Stability in Microgrid	Solanki, Parmal Singh*; S, Sasidharan; Saoudi, Magdy	02:00 - 02:15 PM
74	Identifying typical issues detected via road safety audit during design stages based on different considerations in Malaysia	Rosmadi, Muhammad Iqbal ; Mohd Hasan, MohdRosli*; MohdGhazali, MohdFahmiHaikal ; Shamsuddin, Mior	02:15 - 02:30 PM

		Muhammad ; Zhao, Yu; MohdShafie, ShafidaAzwina ; Al-Mufargi, Hussein	
106	Symbiotic Intelligence: The Future of Human-Machine Collaboration in Smart Manufacturing	Jitendra Pandey	02:30 - 02:45 PM

<b>Track Name</b>	<b>Innovation in Electrical, Electronic, and Computer Engineering</b>		
Link for online participants	<a href="#">Track 4 - Electrical, Electronic and Computer Adva   International Conference on Sustainable Technology - University of Nizwa</a>		
Day II	Tuesday 28 April 2026	Morning sessions	
Room No.	2A-3		
Chair	Dr. Munaf Salim		
Evaluator	Mr. Mohammed Yousuf		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
53	The Impact of Large-Scale Photovoltaic Systems on the Grid: Review	Wisam, Hiba*; Abbood, Hayder; ibrahim, Haider	11:15 – 11:30 AM
149	Retrieval-Augmented Generation in Multimodal Search for Smart Web Systems: A Scoping Review	EmanMahkoom Al-Abri*; Nadaim Madi	11:30 - 11:45AM
164	Drivers of Artificial Intelligence Adoption and Innovation Performance in Gulf Organizations: The Moderating Role of Organisational Characteristics and	Yousuf Busaidi*	11:45–12:00 PM

	the Mediating Effect of AI-Enabled Strategic Decision-Making		
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<b>Track Name</b>	<b>Innovation in Electrical, Electronic, and Computer Engineering</b>		
<b>Link for online participants</b>	<a href="#">Track 4 - Electrical, Electronic and Computer Adva   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Day II</b>	<b>Tuesday 28 April 2026</b>	<b>Afternoon sessions</b>	
<b>Room No.</b>	<b>2A-3</b>		
<b>Chair</b>	<b>Dr. Munaf Salim</b>		
<b>Evaluator</b>	<b>Mr. Mohammed Yousuf</b>		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
64	Design and Performance Evaluation of an AI-Based Domestic Animal Monitoring System	Wisam, Hiba*; Abbood, Hayder; ibrahim, Haider	01:45 – 02:00 PM
67	Enhancing Deepfake Detection Robustness Through Domain-Adversarial Learning and Semantic Reconstruction	Venkateswarlu Sunkari	02:00 - 02:15 PM
81	Topology-Guided Spectral Attention Transformer with Adaptive Renal Morphology	<i>Hari Priya M*, C. Gunasundari</i>	02:15 - 02:30 PM

	Encoding for Kidney Tumor Detection and Segmentation		
162	The Environmental, Economic and Health Implications of Integrating Direct Air Capture in Buildings	<i>Aliya Banu*</i>	02:30 - 02:45 PM

<b>Track Name</b>	<b>Environmental Innovation in Water, Waste, and Emissions Management</b>		
<b>Link for online participants</b>	<a href="#">Track 2 - Environmental Innovation, Water, Waste,   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Day II</b>	<b>Tuesday 28 April 2026</b>	<b>Morning sessions</b>	
<b>Room No.</b>	<b>2A-5</b>		
<b>Chair</b>	<b>Dr. Hazim Abbas</b>		
<b>Evaluator</b>	<b>Dr. Khisbullah Hudha</b>		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
7	AI-Powered Designerly Decision Support System for Water–Energy Efficiency in BWh Climate of Oman	Mahdavinejad, Mohammadjavad*	11:15 – 11:30 AM
73	Stabilization of Sandy Soil by Using Waste Marble Powder for Deep Soil Mixing Applications	Al.Sadrani, Kholoud*	11:30 - 11:45 AM
			11:45 – 12:00 PM

<b>Track Name</b>	<b>Environmental Innovation in Water, Waste, and Emissions Management</b>		
<b>Link for online participants</b>	<a href="#">Track 2 - Environmental Innovation, Water, Waste,   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Day II</b>	<b>Tuesday 28 April 2026</b>	<b>Afternoon sessions</b>	
<b>Room No.</b>	<b>2A-5</b>		
<b>Chair</b>	<b>Dr. Hazim Abbas</b>		
<b>Evaluator</b>	<b>Dr. Khisbullah Hudha</b>		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
59	Comparative Sustainability Assessment of Municipal Wastewater Treatment Systems Using GPS-X 7.0	Reddy, Sreedhar*; Al Darii, Ghasoun Ali Nasser ; Al-Junaibi, SheikhaHafedhGhalib	01:45 – 02:00 PM
68	Multivariate RSM-Assisted Modeling of UV Disinfection for Total Coliform Reduction in Treated Wastewater	Reddy, Sreedhar*	02:00 - 02:15 PM
24	Leveraging Geospatial AI Tools to Investigate the Spatial Distribution of Meteorites	<i>Khalifa Al-Kindi</i>	02:15 - 02:30 PM

			02:30 - 02:45 PM
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<b>Track Name</b>	<b>Undergraduate research and innovation</b>		
<b>Link for online participants</b>	<a href="#">Track 6 - Undergraduate Research and Innovation   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Day II</b>	<b>Tuesday 28 April 2026</b>	<b>Morning sessions</b>	
<b>Room No.</b>	<b>2A-6</b>		
<b>Chair</b>	<b>Prof. Mohammadjavad Mahdavinejad</b>		
<b>Evaluator</b>	<b>Dr. Imran Qureshi</b>		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
91	UniBot: A Raspberry Pi-Powered Campus Information Robot Assistant Using LLM-Driven Function Calling	Al-Gamoudi , Shadha; Al-Julandani , Aisha; Al-Rawahiya , Tasnim; Al-aamri, Maram ; Abu Raid, Fadi*	11:15 – 11:30 AM
118	Design and Prototype of a Low-Cost IoT-Assisted Standing Gait Trainer for Children with Cerebral Palsy	Al-Kindi, Abdulrahman*	11:30 - 11:45AM

127	Green Ammonia for Food Security and Climate Remediation: A Sustainable Pathway for Fertilizer Production	Murtaza, Hafiz*	11:45–12:00 PM
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<b>Track Name</b>	<b>Undergraduate research and innovation</b>		
<b>Link for online participants</b>	<a href="#">Track 6 - Undergraduate Research and Innovation   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Day II</b>	<b>Tuesday 28 April 2026</b>	<b>Afternoon sessions</b>	
<b>Room No.</b>	<b>2A-6</b>		
<b>Chair</b>	<b>Prof. Mohammadjavad Mahdavinejad</b>		
<b>Evaluator</b>	<b>Dr. Imran Qureshi</b>		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
131	AI-Driven Adaptive Traffic Management System for Emergency Vehicles in Oman	Pana, Rosalio*; Al Rahbi, Ayoob; AL Balushi, Issa; Al Marzouqi, Muneeb; Cansino, Jonathan	01:45 – 02:00 PM
40	Design and Implementation of a Programmable Logic Controller Using ESP32	Santiago, Jamin*; Mouda, Mohammed Junaid; Nouman, Mustafa; Ba-Omar, Maysoon;	02:00 - 02:15 PM

		Al-Maashani, Omaymah; Al-Ojaili, Nadir	
			02:15 - 02:30 PM
			02:30 - 02:45 PM

<b>Track Name</b>	<b>Green Hydrogen and Net-Zero Systems</b>		
<b>Link for online participants</b>	<a href="#">Track 1 - Green Hydrogen and Net-Zero Systems   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Day II</b>	<b>Tuesday 28 April 2026</b>	<b>Morning sessions</b>	
<b>Room No.</b>	<b>2A-7</b>		
<b>Chair</b>	<b>Dr. Ahmed Ahinai</b>		
<b>Evaluator</b>	<b>Mr. Moad Alost</b>		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
114	Is Bigger Always Better? An Economic Analysis of Biomass Gasification by Scale and Feedstock	Abdul Manaf, Norhuda	11:15 – 11:30 AM

115	Quantifying the Marginal Exergy Penalty of Green Hydrogen Deployment in Hot-Climate Gas Economies	Bilal, Muhammad*; Nawaz, Waseem	11:30 - 11:45AM
117	Feasibility Study of Sustainable Aviation Fuel Production by Power-to-Liquid Route	Al Mandhari , Al Rryan	11:45–12:00 PM

<b>Track Name</b>	<b>Green Hydrogen and Net-Zero Systems</b>		
<b>Link for online participants</b>	<a href="#">Track 1 - Green Hydrogen and Net-Zero Systems   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Day II</b>	<b>Tuesday 28 April 2026</b>	<b>Afternoon sessions</b>	
<b>Room No.</b>	<b>2A-7</b>		
<b>Chair</b>	<b>Dr. Ahmed Ahinai</b>		
<b>Evaluator</b>	<b>Mr. Moad Alost</b>		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
124	Hybrid energy systems with storage for masirah island: a techno-economic analysis	Al-Badi, Abdullah	01:45 – 02:00 PM

139	GIS-Based Multi-Criteria Site Selection for Wind-to-Hydrogen Production in Marmul, Oman	Nasiri, Navid*; Farrizi, Maryam; Nasiri, Hooman	02:00 - 02:15 PM
142	Artificial Intelligence for Green Energy System	Chen , Bin	02:15 - 02:30 PM

<b>Track Name</b>	<b>Bio-innovations in materials and regenerative engineering</b>		
<b>Link for online participants</b>	<a href="#">Track 5 - Bio-innovations in Materials and Regener   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Day II</b>	<b>Tuesday 28 April 2026</b>	<b>Morning sessions</b>	
<b>Room No.</b>	<b>2A-8</b>		
<b>Chair</b>	<b>Ms. Nasreen Dummi</b>		
<b>Evaluator</b>	<b>TBD</b>		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>

113	Architecture biomaterials for age-related bone degeneration and regenerative therapies	zreiqat, Hala*	11:15 – 11:30 AM
121	Photocrosslinkable Polymers for Tissue Regeneration	Zhao, Xin	11:30 - 11:45AM
123	Transition from Ductile to Brittle Failure in Recycled Aluminum 6061 under Dynamic Impact Loading	Latif, Kamran; Imran Latif Qureshi, QadirBux	11:45–12:00 PM

<b>Track Name</b>	<b>Bio-innovations in materials and regenerative engineering</b>	
<b>Link for online participants</b>	<a href="#">Track 5 - Bio-innovations in Materials and Regener   International Conference on Sustainable Technology - University of Nizwa</a>	
<b>Day II</b>	<b>Tuesday 28 April 2026</b>	<b>Afternoon sessions</b>
<b>Room No.</b>	<b>2A-8</b>	
<b>Chair</b>	<b>Ms. Nasreen Dummi</b>	
<b>Evaluator</b>	<b>TBD</b>	

Paper ID	Paper Title	Authors	Time
125	Engineering Biological Tissues: The Role of Bio-Scaffolds, Bioreactors, and Electrical Stimulation	Al-Sarawi, Said	01:45 – 02:00 PM
128	Performance Evaluation of OAT-Modified Geopolymer Concrete at Ambient Curing Temperature	Adibi, Mahdi*; Khorashahi, Reza; Kazemian, Farbod ; Azami, Ahadollah	02:00 - 02:15 PM
140	A comparative study of the phase characteristics of the electrochemically synthesised Ti-x W and Ti-xNb (x = 10 and 35 mass%) alloys	Dunaboyina, Sri Maha Vishnu*; Sure, Jagadeesh ; Schwandt, Carsten; Mattaparthi, BinduMadhavi; Farooq, Saima; Kamal Hossain, Mohammad; Al Abri, Rashid; Al-Harrasi, Ahmed	02:15 - 02:30 PM
31	Enhancing Campus Outdoor Thermal Comfort Through Simulation of Shaded Walkways: Evidence from the University of Nizwa.	<i>AdiAlfarei*</i>	02:30 - 02:45 PM

### Conference DAY 3: Wednesday 29 April 2026

09:00 AM–12:05 Noon: Morning Session (Plenary), as per below details:

Time	Event
09:00	Welcoming speech Venue: Building 2A – Al Masharq Hall
09:05 – 09:25 AM	Keynote speech 7 Venue: Building 2A – Al Masharq Hall
09:30 – 09:50 AM	Keynote speech 8 Venue: Building 2A – Al Masharq Hall

09:50– 10:00 AM	<b>Coffee break</b> Venue: Building 2A – Al Masharq Hall – Service Room
10:05 –10:45 AM	<b>Workshops sessionII</b> Venue: Building 2A – Al Masharq Hall / Rooms 2A2, 2A3, 2A5 - 2A8
10:50 – 12:05 PM	<b>Tracks presentations and discussions session 4</b> Venue: Building 2A – Rooms 2A2, 2A3, 2A5 - 2A8
12:10 –01:10 PM	<b>Lunch (Al Masharq Hall), Prayer Break</b>

**Afternoon session & closing ceremony, as per below details:**

01:10 – 01:15 PM	<b>Welcoming speech (Plenary) by chair of the session</b> Venue: Building 2A – Al Masharq Hall
01:20 – 01:40 AM	<b>Keynote speech 9</b> Venue: Building 2A – Al Masharq Hall
01:45 – 01:55 PM	<b>Coffee break</b> Venue: Building 2A – Al Masharq Hall – Service Room
01:55 – 02:25 PM	<b>Keynote speech 10, Online</b> Venue: Building 2A – 2A-8
01:55 – 02:25 PM	<b>Tracks presentations and discussions session 6</b> Venue: Building 2A – Rooms 2A2, 2A3, 2A5 - 2A8
02:30 – 03:30 PM	<b>Closing Ceremony</b> Announcement of the prize winners for distinguished researches

<b>Track Name</b>	<b>Sustainable Smart Cities and Climate-Flexible Infrastructure</b>	
<b>Link for online participants</b>	<a href="#">Track 3 - Sustainable Smart Cities and Infrastructure   International Conference on Sustainable Technology - University of Nizwa</a>	
<b>Day III</b>	<b>Wednesday 29 April 2026</b>	<b>Morning sessions</b>
<b>Room No.</b>	2A-2	
<b>Chair</b>	Dr. Saed Al Maawali	
<b>Evaluator</b>	Dr. Nasrallah Hassan	

Paper ID	Paper Title	Authors	Time
77	Development and Optimization of Ultra-High Performance Fiber-Reinforced Concrete (UHPFRC): The Effects of Steel Fiber and Thermal Curing on Compressive Strength	Imran Qadir *; Alost, Moad	10:55 – 11:10 AM
80	A Two-Stage LSTM-MILP Fusion for Day-Ahead Home Energy Management: Enhancing Flexibility and Minimizing Cost in PV-Battery Systems	Ahmadi Rahmatabadi, Mohammad*; Ahmadi Rahmatabadi, Mahan; Gharehpetian, Gevork B	11:10 - 11:25 AM
89	Parametric Approach on Stabilisation of Silty Sand Slopes with Soil Nailing	Pa, Suriya*; SP, Sangeetha	11:25 - 11:40 AM
98	Towards Circular Construction in Oman: Experimental Evaluation of Fly Ash and Recycled Aggregate Concrete	Hussain, Mohammed Ihtesham*; Al-Aamri, Ahmed Majid Salim ; Khan, Ghufraan Ahmad	11:40 - 11:55AM
99	From Code-Compliance to Biophilic Inclusivity: A Multi-Typology Assessment of AI-Assisted and Designer-Led Sustainable Architecture	Khan, Ghufraan *; Ihtesham, Mohammed	11:55 - 12:10 PM

<b>Track Name</b>	<b>Sustainable Smart Cities and Climate-Flexible Infrastructure</b>
<b>Link for online participants</b>	<a href="#">Track 3 - Sustainable Smart Cities and Infrastructure   International Conference on Sustainable Technology - University of Nizwa</a>

<b>Day III</b>	<b>Wednesday 29 April 2026</b>	<b>Afternoon sessions</b>	
<b>Room No.</b>	2A-2		
<b>Chair</b>	Dr. Saed Al Maawali		
<b>Evaluator</b>	Dr. Nasrallah Hassan		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
36	A Simulation-Based Assessment of Courtyard Shading and Thermal Comfort for Sustainable Built Environment Design Concept at UON New Campus	NoofALdhaani*	01:55 – 02:10 PM
135	A Holistic Approach in Energy Retrofitting Design for Existing Residential Building in Adana, Türkiye	Ahadollah Azami	02:10 - 02:25 PM

<b>Track Name</b>	<b>Innovation in Electrical, Electronic, and Computer Engineering</b>
<b>Link for online participants</b>	<a href="#">Track 4 - Electrical, Electronic and Computer Adva   International Conference on Sustainable Technology - University of Nizwa</a>

<b>Day III</b>	<b>Wednesday 29 April 2026</b>	<b>Morning sessions</b>	
<b>Room No.</b>	<b>2A-3</b>		
<b>Chair</b>	<b>Dr. Ahmed Al Busaidi</b>		
<b>Evaluator</b>	<b>Dr. Sallam Othman</b>		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
90	Beyond Textbooks: Charting ChatGPT's Trailblazing Influence in Evolving Higher Education Environments	Sabiri, Kashif Ali*	10:55 – 11:10 AM
108	A Review of Localization and Associated Challenges of Location Aware IoTs	Bashir, Muhammad Nauman*	11:10 - 11:25AM
122	Comparative Analysis of Loan Approval Prediction Using Machine Learning Algorithms	Subbarayan, Sadasivam*	11:25–11:40 PM
132	Smart Defect Detection for Industrial Products Surface Non-Destructive Test (NDT) Using a Transformer based Autoencoder	AtighiLorestani, Zeinab; Fereidunian, Alireza*; Nasihatkon, Behrooz	11:40 - 11:55AM

<b>Track Name</b>	<b>Innovation in Electrical, Electronic, and Computer Engineering</b>
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Link for online participants	<a href="#">Track 4 - Electrical, Electronic and Computer Adva   International Conference on Sustainable Technology - University of Nizwa</a>		
Day III	Wednesday 29 April 2026	Afternoon sessions	
Room No.	2A-3		
Chair	Dr. Ahmed Al Busaidi		
Evaluator	Dr. Sallam Othman		
Paper ID	Paper Title	Authors	Time
148	A Review on Enhancing Semantic Search in Web Information Retrieval with Multimodal Knowledge Graphs	Ruqaiya Al Farsi*; Nadaim Madi	01:55 – 02:10 PM
143	ACPWM control system for induction motor using AVR microcontroller	Amir, Hasina*	02:10 - 02:25 PM

<b>Track Name</b>	<b>Environmental Innovation in Water, Waste, and Emissions Management</b>		
<b>Link for online participants</b>	<a href="#">Track 2 - Environmental Innovation, Water, Waste,   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Day III</b>	<b>Wednesday 29 April 2026</b>	<b>Morning sessions</b>	
<b>Room No.</b>	<b>2A-5</b>		
<b>Chair</b>	<b>Dr. Sri Hari</b>		
<b>Evaluator</b>	<b>Dr. Sreedhar Reddy</b>		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
93	Identifying an Optimal Tree Canopy Threshold for Urban Microclimatic Performance: A Case Study of Lucknow, India	Bano, Farheen*; Bano, Farheen	10:55 – 11:10 AM
94	Vortex-Assisted Nanoassembly: Mechanism of Forming SERS-Active Monolayers and Computational Insights	Hossain, Mohammad Kamal*; Hossain, Nuraiz; Vishnu, D. Sri Maha ; Al Abri, Rashid	11:10 - 11:25AM
96	Green synthesis of Co <sub>3</sub> O <sub>4</sub> nanoparticles for photocatalytic degradation of Congo red dye in waste water treatment	Mattaparthi, BinduMadhavi; Dunaboyina, Sri Maha Vishnu*; Al Saidi, Wafa; Albaroumi, Hager; Al Yaqoobi, Sausan; Farooq, Saima; Hossain, Mohammed Kamal ; Al-Abri, Rashid	11:25–11:40 PM
97	Solar Powered Desalination System Using the Humidification-Dehumidification	Riyaz , Mohammed *; Yadav, Prasad ; Alsaidi , Yousuf	11:40 - 11:55AM
100	Farming in Two Worlds: Integrating Physical and Digital Systems for Greener Agriculture	Sukkarieh, Salah*	11:55 - 12:10 PM

<b>Track Name</b>	<b>Environmental Innovation in Water, Waste, and Emissions Management</b>		
<b>Link for online participants</b>	<a href="#">Track 2 - Environmental Innovation, Water, Waste,   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Day III</b>	<b>Wednesday 29 April 2026</b>	<b>Afternoon sessions</b>	
<b>Room No.</b>	<b>2A-5</b>		
<b>Chair</b>	<b>Dr. Srihari</b>		
<b>Evaluator</b>	<b>Dr. Sreedhar Reddy</b>		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
101	Modeling Temperature and Wind Speed Data Using the Kumaraswamy Distribution and Metaheuristic Optimization	AkhoniPourhosseini, Fatemeh; HosseinzadehBazargani, Nesa; Vosoughi, Fatemeh*	01:55 – 02:10 PM
126	Enabling Circular Carbon Solutions: Transforming Mine Tailings into Critical Metals Recovery and Permanent CO <sub>2</sub> Storage	Dia Milani*	02:10 - 02:25 PM

<b>Track Name</b>	<b>Undergraduate research and innovation</b>		
<b>Link for online participants</b>	<a href="#">Track 6 - Undergraduate Research and Innovation   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Day III</b>	<b>Wednesday 29 April 2026</b>	<b>Morning sessions</b>	
<b>Room No.</b>	<b>2A-6</b>		
<b>Chair</b>	<b>Dr. Mamdouh Zaky</b>		
<b>Evaluator</b>	<b>Ms. AnjuParameswaran</b>		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
141	Design and Development of Dragon Race 3D Mobile Game	Hani Ismail, Mazin; Govinda Pillai, Indu *	10:55 – 11:10 AM
111	IoT-Based Smart Waste Management System for Sustainable Urban Development	R, VYSHAK*; G, Mohit	11:10 - 11:25AM
112	Engineering Circular Systems for a Carbon-Neutral Future: From Waste to Resource Intelligence	Abbas, Ali	11:25–11:40 PM

<b>Track Name</b>	<b>Undergraduate research and innovation</b>		
<b>Link for online participants</b>	<a href="#">Track 6 - Undergraduate Research and Innovation   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Day III</b>	<b>Wednesday 29 April 2026</b>	<b>Afternoon sessions</b>	
<b>Room No.</b>	<b>2A-6</b>		
<b>Chair</b>	<b>Dr. Mamdouh Zaky</b>		
<b>Evaluator</b>	<b>Ms. AnjuParameswaran</b>		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
22	Utilizing Drones for Detecting Pests in Palm Tree Farming	Al-wardi, Mawadda*	01:55 – 02:10 PM
56	Hybrid Deep Learning for Automated Date Fruit Quality Grading Using CNN and Vision Transformers	Al-Din, Munaf*	02:10 - 02:25 PM

<b>Track Name</b>	<b>Bio-innovations in materials and regenerative engineering</b>		
<b>Link for online participants</b>	<a href="#">Track 5 - Bio-innovations in Materials and Regener   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Day III</b>	<b>Wednesday 29 April 2026</b>	<b>Morning sessions</b>	
<b>Room No.</b>	<b>2A-7</b>		
<b>Chair</b>	<b>Dr. Mohammed Faisal</b>		
<b>Evaluator</b>	<b>TBD</b>		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
20	Influence of Sugarcane Bagasse Bio-oil on Asphalt Binder Performance at Low Temperatures	ALI, BASIT*; Li, Peilong; Almufargi, Hussein; Ullah, Asad	10:55 – 11:10 AM
44	Plasma Nanoengineered Materials and Coatings for Medicine and Beyond	Vasilev, Krasimir	11:10 - 11:25AM
15	Solar Powered Greywater Recycling for Institutional Water Conservation	Paulian, Kumaradhas*	11:25 – 11:40 PM
62	Comprehensive Review on Starch Extraction Technique and Fabrication of Nanofibers and Thin Film from Starch-Based Biopolymer	Mohd. Pa'ad , Khairunnisa *; Zulkiflee, HafiqAidil; Mansor, Muliani	11:40 - 11:55AM

<b>Track Name</b>	<b>Bio-innovations in materials and regenerative engineering</b>		
<b>Link for online participants</b>	<a href="#">Track 5 - Bio-innovations in Materials and Regener   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Day III</b>	<b>Wednesday 29 April 2026</b>	<b>Afternoon sessions</b>	
<b>Room No.</b>	<b>2A-7</b>		
<b>Chair</b>	<b>Dr. Mohammed Faisal</b>		
<b>Evaluator</b>	<b>TBD</b>		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
65	Magnetically Functionalized Zein–Alginate Hydrogel Coatings Enhance Angiogenesis-Driven Bone Regeneration and Implant Osseointegration	Selvaraj, Vimalraj	01:55 – 02:10 PM
72	Bio-Innovations in Sustainable Cellulose: Food-Waste-Derived Advanced Composites for Environmental and medical Applications	Mazhar UI-Islam*	02:10 - 02:25 PM

<b>Track Name</b>	<b>Bio-innovations in materials and regenerative engineering</b>		
<b>Link for online participants</b>	<a href="#">Track 5 - Bio-innovations in Materials and Regener   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Day III</b>	<b>Wednesday 29 April 2026</b>	<b>Morning sessions</b>	
<b>Room No.</b>	<b>2A-8</b>		
<b>Chair</b>	<b>TBD</b>		
<b>Evaluator</b>	<b>TBD</b>		
<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Time</b>
12	Inkjet-printed Spherical Microwell for 3D Multicellular Structure Generation and Manipulation	Huang, Changjin	10:55 – 11:10 AM
13	Bio-elastomers for Regenerative Engineering	Wang, Yadong	11:10 - 11:25AM
144	Bio-Innovations in Materials and Regenerative Engineering: Translational Strategies from Nano-Systems to Smart Scaffolds	Sudhakar, Swathi	11:25–11:40 PM
70	Microfluidic Miniaturization for Translational Bioassays and 3D Tumor Modeling	Qasaimeh, Mohammad	11:40 - 11:55AM
129	IoT-Enabled Solar-Powered Smart Lighting System for Sustainable Campus Infrastructure: A Case Study at UTAS-Nizwa	Raghavendar Inguva*; Surya Palanichamy Ravi; Ramesh Shankaranarayana; Hamza Mohammed Abdullah AL Kindi	11:55 - 12:10 PM

<b>Track Name</b>	<b>Keynote speech: #10, Online</b>		
<b>Link</b>	<a href="#">Track 3 - Sustainable Smart Cities and Infrastructure   International Conference on Sustainable Technology - University of Nizwa</a>		
<b>Day III</b>	<b>Wednesday 29 April 2026</b>	<b>Afternoon sessions</b>	
<b>Room No.</b>	<b>2A-8</b>		
<b>Chair</b>	<b>TBD</b>		
	<b>Speech Title:</b>	<b>Speaker</b>	<b>Time</b>
	Rethinking and Re-engineering the Supply Chain for the Future	Dr. Linda Whicker, University of Hull, UK	01:55 – 02:25 PM