

ADU Concludes its First Edition of the International Conference on Environmental Design, Material Science, and Engineering Technologies

[Abu Dhabi University \(ADU\)](#) hosted its first edition of the International Conference on Environment Design, Material Science and Engineering Technologies (EDMSET), held in collaboration with the International Experts for Research Enrichment and Knowledge Exchange (IEREK). The conference took place at ADU's Dubai campus from the 22nd to the 24th of April 2024, which provided attendees with a platform to engage in discussions and foster innovation across various fields, including mechanical engineering, architecture, computation, automation, aerospace engineering, and environmental resilience. Additionally, prior to the conference 150 research papers were submitted by subject matter experts and presented during the EDMSET.

In partnership with Sharjah University and Istituto Marangoni, the event brought together subject matter experts and professionals from prominent academic institutions and organizations focused on sustainability such as WISP USA, MetaWorldX, Nebrija University Spain, American University of Cairo and University of Portsmouth UK as well as ADU and Roma Tre University.

With the participation of over 200 attendees from 59 countries and over the course of the three days, numerous sessions and workshops were held, that focused on key tracks including technology and sustainability, sustainable materials and techniques, engineering technologies and fabrication techniques, art, creativity, interior design, fashion and media production as well as sustainable urban futures and enhancing urban sustainability. In addition to topics on renewable energy, environmental integration and impacts, sustainable living through green solutions and technologies, and sustainable design and construction.

As part of ADU's commitment to fostering advanced research capabilities among students, the University's College of Engineering organized a workshop titled 'Dynamics of Motion' during the EDMSET conference. The workshop was designed to explore the dynamic movement within urban open spaces, employing advanced spatial configurational analysis to understand and simulate the intricate patterns of motion that define interactions with the urban environment. Furthermore, the workshop equipped students and participants with methodologies and applications for movement analysis in urban planning and design, with a focus on simulating pedestrian behavior to enhance the creation of effective and responsive urban spaces.

[Professor Ghassan Aouad, Chancellor of Abu Dhabi University \(ADU\)](#), said: "We are delighted to host the first edition of the International Conference on Environmental Design, Material Science, and Engineering Technologies, alongside IEREK. This conference signifies a pivotal step towards a more sustainable future for generations to come. At ADU, we are committed to optimising education on sustainability to provide both our students and faculty members with the necessary knowledge and skills to contribute with the global Sustainable Development Goals (SDGs) and the UAE's sustainability agenda. We extend our gratitude to our partners for their impactful contribution to the success of this event." Throughout the conference, attendees had the opportunity to expand their network and collaborate with peers from diverse backgrounds and industries enabling knowledge and experience sharing across various fields. The event also aimed to inspire attendees to think

critically about their practices and consider a proactive approach towards promoting environmental and social responsibility.

