

CLIMATECH-2025 HIGHLIGHTS

TECHNICAL SESSIONS:

1. EY Knowledge Session on Circular Economy and Sustainable Practices
2. Stakeholder Engagement for Climate Action
3. Agriculture and Water Management
4. Green Economy and Sustainability
5. Emerging Solutions for Climate Action

KEYNOTE SPEAKERS:

1. Prof. Dr. Noman Ahmed
Professor & Dean, Faculty of Architecture & Sciences,
NED University of Engineering & Technology
2. Prof. Dr. Muhammad Ali Ismail
Professor & Chairman, Department of Computer &
Information Systems Engineering, NED University of
Engineering & Technology
3. Prof. Dr. M. Zeeshan Shakir
Professor, University of the West of Scotland, UK
4. Dr. Samina Kidwai
Oceanographer, Independent Consultant
5. Dr. Seema Ansari
Advisor to Rector, Institute of Business Management
6. Mr. Shahid Lutfi
Director of Environmental Engineering Department,
Exponent Engineers (Pvt) Ltd.
7. Mr. Zarak Khan
Deputy Director, SME, Housing & Sustainable Finance
Department, State Bank of Pakistan
8. Mr. Yasir Darya
Director, Climate Action Centre

PANEL EXPERTS:

1. Dr. Mehmood Ali
Chairman, Environmental Engineering Department,
NED University of Engineering and Technology
2. Ms. Ambreena Ahmed
Director, Teachers' Resource Centre
3. Mr. Mumtaz Hussain
Chair, IEEE Young Professionals, Karachi
4. Mr. Abubakar Ismail
Head of Energy and Sustainability, Amreli Steel Ltd.
5. Ms. Zehara Aneek
Director, Sustainability Consulting, Ernst and Young
Pakistan
6. Mr. Abbas Ali
Partner, Consulting Services, EY Rhodes
7. Mr. Mustafa Diwan
Director of Operations and Marketing, Gatron
(Industries) Ltd.
8. Ms. Muneeba Haroon
Chief Operating Officer, The Green Ark

ABOUT CLIMATECH-2025

The 2nd International Conference on Technology Driven Climate Action (CLIMATECH- 2025) is a pioneering global forum dedicated to exploring the intersection of technology and environmental stewardship. With the theme "Where Innovation Meets Environmental Stewardship," this two-day event, scheduled for January 16th - 17th, 2025, at NED University of Engineering and Technology (NEDUET), Karachi, will bring together leading scientists, engineers, policymakers, and entrepreneurs to tackle the pressing challenge of climate change. Jointly organized by the Department of Physics and the Department of Telecommunications Engineering, the conference will provide a collaborative platform featuring invited talks, panel discussions, and technical presentations on key areas such as climate change impacts, technological advancements for sustainability, climate economics, and radioactivity in the environment. With the University of the West of Scotland (UWS), UK as an academic collaborator, CLIMATECH-2025 promises a rich, globally-relevant program that fosters dialogue and innovation for a sustainable future.

FOR FURTHER DETAILS



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Academic Collaborator



Sectoral Collaborator



Building a better
working world

Knowledge Partner



CLIMATECH-2025

2ND INTERNATIONAL CONFERENCE ON TECHNOLOGY DRIVEN CLIMATE ACTION - 2025



Organized by: Department of Telecommunications Engineering and
Department of Physics



JANUARY 16 - 17, 2025



NED UNIVERSITY OF
ENGINEERING & TECHNOLOGY



 **Dawlance**

Reon
Energy



EY Building a better
working world

ABOUT NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY (NEDUET)

NED University of Engineering & Technology (NEDUET), since its inception in 1922, has remained a pioneer in professional education, research & innovation. The University has been producing quality engineers, scientists, technology experts, architects, urban planners, engineering management experts, and leaders that have been serving diverse industries, corporations, organizations, and governments across all continents.

ABOUT ORGANIZING DEPARTMENTS

DEPARTMENT OF TELECOMMUNICATIONS ENGINEERING (TCD)

The Telecommunications Engineering programme was started in February 2003 under the administration of Electrical Engineering Department, then in 2007, Electronic Engineering Department took the administrative charge of the programme. Finally in June 2021 Telecommunication Engineering Department came into existence. Although the Department has recent existence but from the very beginning of the programme it is facilitating the students with well-equipped labs and outstanding teaching facilities. The undergraduate programme in Telecommunications Engineering is accredited by Pakistan Engineering Council. At post graduate level Department is offering Masters of Engineering in three specializations namely:

- (i) RF Engineering
- (ii) Telecommunication Networks
- (iii) Telecommunication Systems

DEPARTMENT OF PHYSICS (DPH)

The Department of Physics has been established as an independent department in 2010. The tremendous growth in science and technology in the last few decades is in one way or the other, related to or based on fundamental principles of Physics. Indeed, there are entire industries which have grown out of development in specific areas of physics such as semiconductor device physics, optics, laser physics and medical physics. Besides an undergraduate programme on Applied Physics, a Master Programme in Physics was also launched with the purpose of producing scientifically and technologically motivated professionals. The structure of the Programme has been designed in such a manner that research-orientated graduates can undertake research projects.



DAWLANCE SUSTAINABILITY HACKATHON

CO-ORGANIZED BY DAWLANCE AND NED UNIVERSITY OF ENGINEERING & TECHNOLOGY

As part of the CILIMATECH-2025 Conference, the Dawlance Sustainability Hackathon, held on January 16th-17th, 2025, brought together some of the brightest and most innovative minds to address critical challenges in sustainability. Co-hosted by NED University of Engineering and Technology and Dawlance, this dynamic two-day event exemplified the power of collaboration, creativity, and forward-thinking solutions.

Undergraduate participants, organized in teams, rose to the challenge by presenting groundbreaking ideas to enhance energy efficiency, integrate smart technologies, waste reduction, and incorporate eco-friendly materials in the design of Dawlance products. The hackathon showcased a wealth of talent and ingenuity, aligned with Dawlance's commitment to building a sustainable and environmentally responsible future.

Highlights of the event included:

1. Innovative solutions that pushed the boundaries of sustainability in home appliances
2. Teams competing for cash prizes and the chance to collaborate with the Dawlance team to further develop their ideas
3. A collective vision to inspire meaningful change and progress toward a greener, more resilient planet

The Dawlance Sustainability Hackathon was more than just a competition—it was a platform for empowering young innovators to create lasting impacts in their communities and beyond. The solutions presented and the enthusiasm displayed by the participants reaffirm the potential of the next generation to drive the transition toward a sustainable future.

We extend our heartfelt gratitude to all participants, mentors, judges and organizers for making this hackathon a resounding success. Together, we are one step closer to a better planet.

ORGANIZING COMMITTEE

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Prof. Dr. Sarosh Hashmat Lodi, Vice Chancellor, NEDUET

Co-Patron

Prof. Dr. Muhammad Tufail, Pro Vice Chancellor, NEDUET

Co-Patron

Prof. Dr. Saad Ahmed Qazi, Dean Faculty of Electrical and Computer Engineering, NEDUET

Co-Patron

Prof. Dr. Noman Ahmed, Dean Faculty of Architecture and Sciences, NEDUET

Conference Chair

Prof. Dr. Muhammad Imran Aslam, Chairman, TCD, NEDUET

Conference Co-Chair

Dr. Irfan Ahmed, Chairman, DPH, NEDUET

Conference Co-Chair

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Dr. Komal Masroor, Assistant Professor, TCD, NEDUET

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HACKATHON MANAGEMENT TEAM

Dr. Hira Lodi, Assistant Professor, DPH, NEDUET

Dr. Roohi Zafar, Assistant Professor, DPH, NEDUET

Dr. Ghulam Mustafa, Lecturer, DPH, NEDUET

Ms. Arham Iqbal, Lecturer, ELD, NEDUET