



4th ONLINE INTERNATIONAL CONFERENCE

On

Recent Trends in Renewable Energy and Advancement in Engineering & Technology **(RTREAET-2025)**

Dates: 19-20th March, 2025

Organized by:

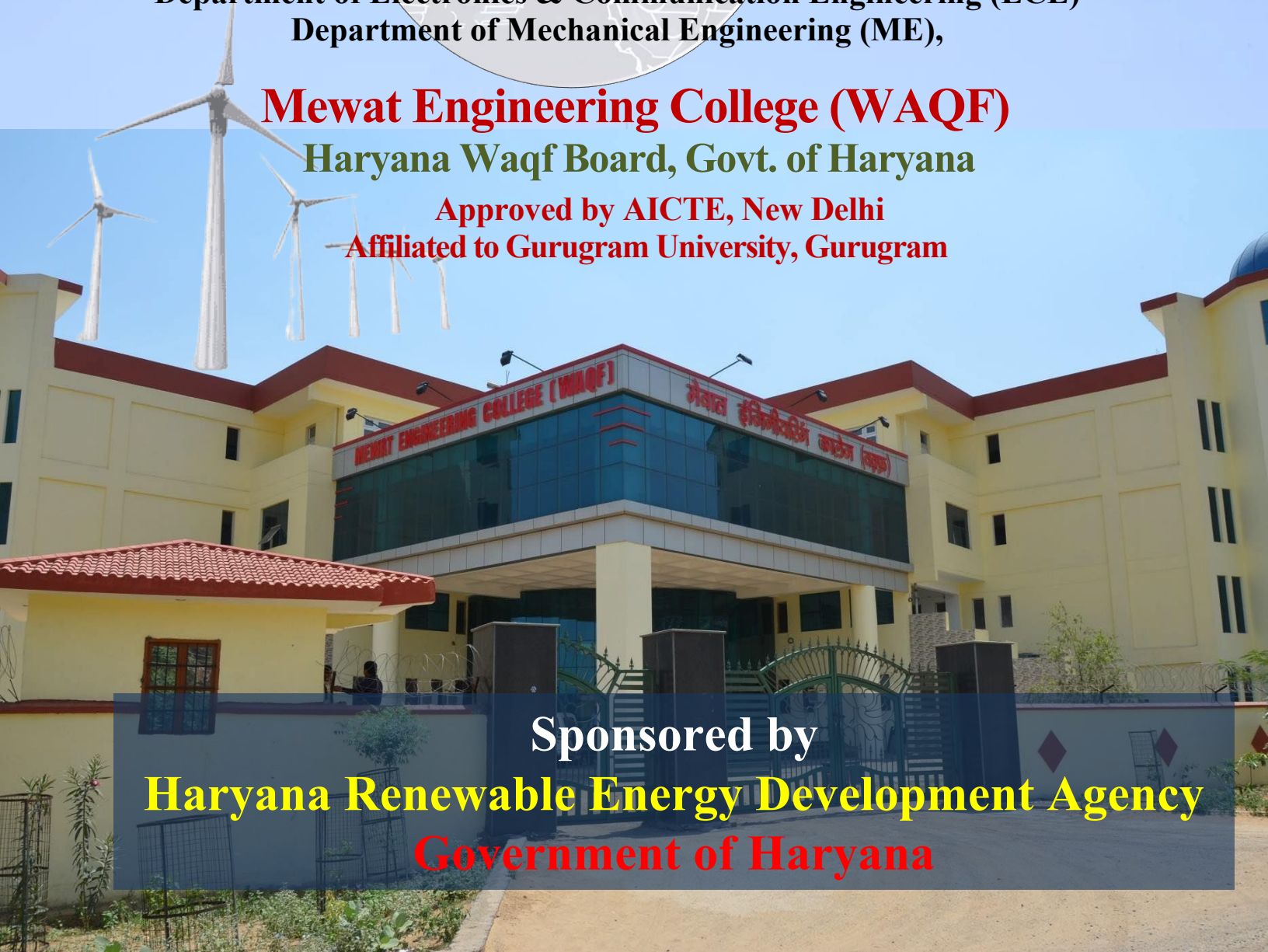
Department of Electronics & Communication Engineering (ECE)
Department of Mechanical Engineering (ME),

Mewat Engineering College (WAQF)

Haryana Waqf Board, Govt. of Haryana

Approved by AICTE, New Delhi

Affiliated to Gurugram University, Gurugram



Sponsored by

Haryana Renewable Energy Development Agency

Government of Haryana

ABOUT MEC

Mewat Engineering College (Waqf) is a unique venture of Haryana Waqf Board, Government of Haryana, in district Nuh, Mewat to impart quality higher technical education to the students of all sections of society. It was started in the year 2010-11 with four streams, ME, EEE, CSE and ECE leading to B.Tech degree courses. Seeing the success and great demand, a new stream of Civil Engineering was started during session 2011-12. It has been approved by All India Council for Technical Education (AICTE), New Delhi & Directorate of Technical Education, Haryana and affiliated to Gurugram University, Gurugram, Haryana. Apart from this, the college has introduced D. Voc./B. Voc. Courses recently. The college has been granted the status of Minority Institution by the Government of Haryana. However, open to all communities.

ABOUT HAREDA

Haryana Government has set up Haryana Renewable Energy Development Agency (HAREDA) in May, 1997. It is acting as a nodal agency to implement the various centrally and state sponsored schemes/projects in the area of renewable energy in the State. It is responsible for formulating policies and programmes necessary for popularizing the applications of various non - conventional and renewable sources of energy in the State.

ABOUT RTREAT-2025

Recent Trends in Renewable Energy and Advancement in Engineering & Technology (RTREAT-2025) aims to bring together leading academicians, scientists, researchers, research scholars, and industry personnel to exchange and share their experiences and research results about all aspects of renewable energy sources, engineering and technology. It also provides the premier interdisciplinary forum for scientists, engineers, and practitioners to present their latest research results, ideas, developments, and applications in the area of science and technology.

RTREAT-2025 plays a significant role in inspiring breakthrough innovations from fundamentals to technological challenges and applications that are shaping the era of Industry 4.0. The conference will provide a unique platform to the participants to evolve their ideas and cogitation as they listen to a well-crafted panel discussion along with thought-provoking speaker sessions.

OBJECTIVES

- Bring together professionals from around the globe with the purpose of encouraging innovative ideas and sharing diversified knowledge and international experiences.
- Provide indispensable exposure to the audience promoting the highest utilisation of research knowledge.
- Provide a key platform for Renowned Academicians, Research Scholars and Industry Experts to disseminate knowledge and present ongoing research through scholarly publications.
- Facilitate career development of all participants and provide opportunities to network and build connections with professionals with shared interests.

CALL FOR PAPERS

Original and unpublished research papers are invited related to following sub-themes of the conference, but not limited to:

Renewable Energy

- Biomass Conversion
- Photovoltaic Technology Conversion
- Solar Thermal Applications
- Wind Energy Technology
- Desalination
- Solar and Low Energy Architecture
- Climatology and Meteorology
- Geothermal Technology
- Wave, Tide and Ocean Thermal Energies
- Hydro Power
- Hydrogen Production Technology and Fuel Cells
- Socio-economic and Policy Issues

Soft Computing Technologies

- Algorithms
- Programming Languages
- Computing Architectures and Systems
- Neural Networks and Deep Learning
- Machine Learning
- Artificial Intelligence
- Fuzzy logic system
- Human Computer Interface
- Crowd Sourcing & Social Intelligence

Advanced Engineering and Science

- Applied Science and Engineering
- Mathematical Modeling and Computational Analysis
- Industrial and Production Aspects
- Physics, Chemistry and Biosciences
- Computational Methods for Engineering and Technology

Power, Energy and Power Electronics

- Advanced Vehicle Dynamics and Control
- Aerospace Propulsion and Aerodynamics
- Marine Structures and Systems
- Lightweight Materials for Transportation
- Noise, Vibration, and Harshness (NVH)
- Automotive Powertrain Technologies
- Aerodynamics and Fluid-Structure Interaction
- Unmanned Aerial Vehicles
- Sustainable Transportation Systems

Mechanical and Aerospace Engineering

- Smart Materials and Structures
- Composite Materials: Design and Applications
- Metal Forming and Machining Processes
- Tribology and Surface Engineering
- Fluid Mechanics and Flow Analysis
- Heat Transfer and Thermal Management
- Control system modeling
- Vibration Analysis and Control
- Dynamics of Machinery
- Aerospace Propulsion and Aerodynamics
- Finite Element Analysis
- Robotics and Automation

Devices, Circuits, Materials and Processing

- Digital System Design
- MEMS/NEMS
- Semiconductor Devices
- Low Power VLSI Circuits
- Emerging Memory Technologies
- Analog and Mixed Signal ICs
- Signal & Image Processing
- Biomedical/ IOT Application
- Communication System

IMPORTANT DATES

- Last date of Full Paper Submission: 28.02.2025
- Acceptance Notification: 13.03.2025
- Camera Ready Paper Submission: 14.03.2025
- Registration Date: 17.03.2025
- Conference Date: 19-20 Mar 2025

PUBLICATION

All accepted papers will be published in proceedings with ISBN No.: 978-93-342-2184-8 subject to the condition that at least one author must register and present the accepted paper during the conference

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PAPER SUBMISSION

Instructions for submission:

1. The submission link: (rtreat2025@gmail.com)
2. Authors must use the IEEE template.
3. Paper must be within 4 to 6 pages only.
4. Plagiarism should be less than 10% without reference.

Bank Account Details

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Indian Delegates: 500/-

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Registration Fee includes entry to all sessions and soft copy of conference proceedings and certificates.

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CONTACT US



Mewat Engineering College (Waqf)
Palla, District Nuh, Mewat
Haryana-122107
<https://www.mecw.ac.in/>



+91-9897342786 (Dr. Adnan Akhlaq)
+91-9588356609 (Dr. Shaheen Khan)
+91-8920876988 (Dr. Gaurav)
+91-9050816883 (Dr. Mohsin)



Adnanakhlaq87@gmail.com
shaheen.khan.2@gmail.com
mohsin.deen@gmail.com

ABOUT MEWAT

Mewat is a region in the state of Haryana, India, known for its distinct cultural and historical significance. It is primarily inhabited by the Meo community, which has a unique blend of Rajput and Mughal ancestry. Mewat is now part of Nuh district, which was carved out of Gurgaon district in 2005. The government has launched various schemes to promote education, employment, and rural development in Mewat. The region is located in southern Haryana, Mewat shares its borders with Rajasthan (Alwar and Bharatpur districts) and Uttar Pradesh (Mathura district). The region has tourist attraction due to following places

1. Shri Chui Mal Mandir (Nuh) – A significant Hindu temple in the region.
2. Nalhar Mahadev Temple – A pilgrimage site dedicated to Lord Shiva near Nuh.
3. Kotla Lake – A scenic spot near Nuh.
4. Sheikh Musa Tomb (Nuh) – A historical monument of great architectural significance.



Shri Chui Mal Mandir



Nalhar Mahadev Temple



Kotla Lake



Sheikh Musa Tomb