



# NUCLEAR EMERGENCY MANAGEMENT SYSTEM

International Training Course

May 06-08, 2024



PIEAS-IAEA Collaborating Center  
Atmospheric Dispersion Modeling & Experimentation Group  
Department of Nuclear Engineering  
Pakistan Institute of Engineering & Applied Sciences



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## Introduction

Pakistan Institute of Engineering and Applied Sciences (PIEAS) stands as the pre-eminent university in Pakistan. Established in 1967, PIEAS has evolved into a distinguished institution renowned for its commitment to fostering the advanced education, cutting-edge research, and technological innovation, particularly in the field of nuclear science and technology. Since 2019, PIEAS has been designated as the IAEA Collaborating Center on *Research, Development, and Capacity Building for Multidisciplinary Applications of Advanced and Innovative Nuclear Technologies*. In its capacity as a collaborating center of the IAEA, PIEAS organizes training courses, workshops, webinars, and colloquiums to disseminate knowledge and develop local human resources.

In a dynamic era of advancements in energy landscape, the demand for proficient professional's adept in managing nuclear emergencies is more crucial than ever. Atmospheric Dispersion Modelling and Experimentation Group (ADMEG) at PIEAS is pursuing research and development activities in this area and is a main contributor in the organization of this training course. This course is designed to equip participants with a profound understanding of nuclear emergencies, intricate details of advanced power reactors, and the essential skills required for effective response and communication during emergency scenarios.

As participants are guided through historical incidents, global responses, reactor accidents, radiation fundamentals, and international regulations, they will gain a holistic perspective on the multifaceted aspects of nuclear emergency management. Additionally, participants will have the opportunity to explore the latest technologies, risk assessment methodologies, and decision support systems that are poised to shape the future of nuclear emergency preparedness.

## Objectives

1. Understanding nuclear emergencies and global responses
2. Familiarization with advanced power reactors and safety measures
3. Skills development in risk assessment and emergency communication
4. Exploration of monitoring systems and emergency response mechanisms
5. Applied/practical training of the participants

## International Speakers

- Dr. Hadid Subki, IAEA
- Dr. Manchun Liang, Tsinghua University, China
- Mr. Wang Ruijun, CIRP, China
- Mr. Qi Kun, CIAE, China
- Local Speakers from PNRA, DOS, NURESC and PIEAS

## Intended Audience

The course is tailored for the professionals from diverse backgrounds including but not limited to nuclear power plant operators, personnel of emergency preparedness and response organizations and centers, regulators, researchers, and academicians.

## Patron In Chief

- **Dr. Raja Ali Raza Anwar, HI, SI, Chairman (PAEC)**

## Patron

- **Dr. Naseem Irfan, Rector PIEAS**

## Organizing Committee

- Dr. Aman ur Rahman, DCS, PIEAS
- Dr. Masroor Ahmad, DCS, PIEAS
- Dr. Inam ul Haq, PE, PIEAS
- Dr. Sajjad Tahir, PS, PIEAS
- Dr. Amjad Farooq, PE, PIEAS
- Dr. M. Naveed Akhtar, PS, PIEAS
- Dr. Haseeb ur Rehman, PE, PIEAS
- Engr. Qaisar Nadeem, PE, PIEAS
- Engr. Ishfaq Ahmad, JE, PIEAS
- Engr. Bilal Ahmed Khan, JE, PIEAS

## Registration

**Deadline: April 30, 2024**  
**Registration Fee: PKR 8000/-**  
**For further information and registration scan the QR code**



