Report on Public Awareness Workshop on Radiation Technology and Nuclear Energy

Day & Date: Saturday, 16th August 2025

Event Name: Public Awareness Workshop on *"Beneficial Effects of Radiation Technology and the Indian Nuclear Energy Programme"*

Organizing Body: Centre for Artificial Intelligence, Madhav Institute of Technology & Science (Deemed University), Gwalior

In Collaboration With: Indian Association for Radiation Protection (IARP)

Duration: 9:00 a.m. to 6:30 p.m.

Madhav Institute of Technology & Science (Deemed University), Gwalior, proudly hosted a one-day Public Awareness Workshop on ***"Beneficial Effects of Radiation Technology and the Indian Nuclear Energy Programme"*** on **16th August 2025.** The workshop was organized by the **Centre for Artificial Intelligence, MITS Gwalior,** in collaboration with the **Indian Association for Radiation Protection (IARP).**

The event witnessed enthusiastic participation from around **90–100 students** and **10 faculty members,** representing **MITS (DU) Gwalior, ITM University, and Kendriya Vidyalaya No. 1, Gwalior.**

Eminent Speakers

The sessions were conducted by experts from IARP:

- **Dr. Chitra Subramanian – Senior Scientific Officer, BARC & Executive Committee Member, IARP**
- **Shri R.K.B. Yadav – Head, Emergency Preparedness & Response Section, BARC**

In addition, the **edutainment team** of **three members – Shri Yatin Thakur, Shri Atul Likhite, and Shri Ram Badade –** performed an innovative science skit titled ***"Kum Mein Hai Dum"***, which simplified complex nuclear concepts through engaging theatre.

Workshop Highlights

The lectures and activities covered:

- **Fundamentals of atomic energy**
- **Radiation and the environment**
- **Peaceful applications of nuclear technology in medicine, agriculture, industry, and energy production**
- **Live demonstrations of radiation monitoring instruments, providing hands-on experience**

The day-long event not only enhanced technical knowledge but also successfully dispelled long-held myths about radiation.

Key Learnings from the Workshop

- **Radiation is natural and everywhere**: Each person is naturally exposed to **~2.4 mSv/year** from the sun, soil, food, and body, which is completely safe.
- **Radiation is not always harmful**: When regulated, it has wide-ranging applications:
    - ***Medicine:*** cancer treatment, diagnostic scans (X-rays, CT, PET).

    - ***Agriculture:*** improving crop yields, controlling pests, food preservation.
    - ***Industry:*** sterilization, non-destructive testing, clean energy production.

- Strict safety measures exist: Radiation workers follow **limits** of **20 mSv/year**, while the general public has a limit of **1 mSv/year**. Monitoring devices like **dosimeters** ensure safety.

- **Nuclear energy is clean and reliable:** It produces minimal greenhouse gases while ensuring a steady electricity supply.

The workshop effectively demonstrated that radiation, when applied responsibly, is not to be feared but **embraced as a powerful tool** for progress. The skit and demonstrations made the **learning interactive, memorable, and practical**.

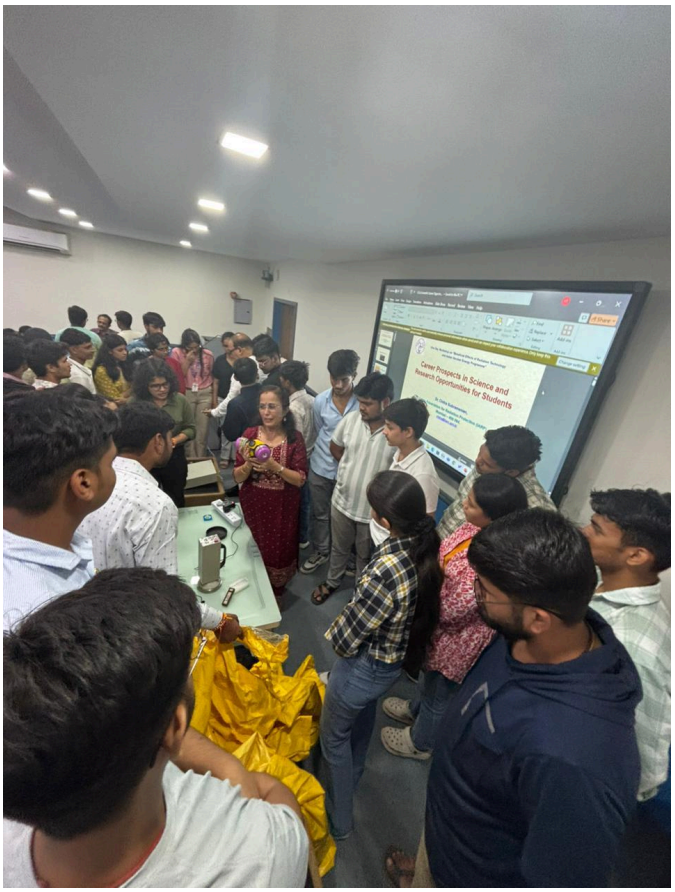
Feedback & Closing

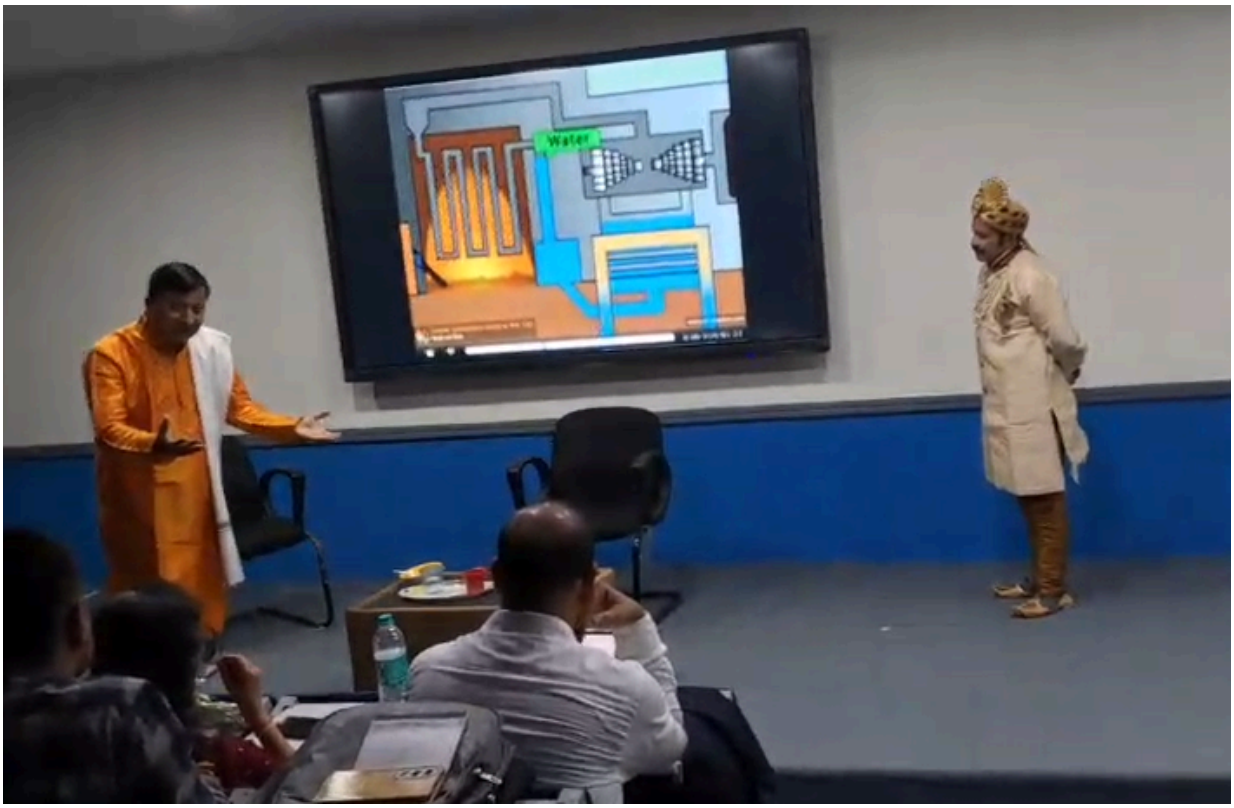
Students and faculty expressed that while it was **an honor to host this program at MITS (DU) Gwalior**, the true privilege was learning directly from such eminent experts. The sessions reinforced that **radiation is a friend of modern society when used wisely**.

The institute extended heartfelt gratitude to Dr. Chitra Subramanian and Shri R.K.B. Yadav for their invaluable insights, and to the ***"Kum Mein Hai Dum"*** team for bringing **science "out of the slides and straight into reality."**

The workshop concluded with applause and heartfelt appreciation for the dignitaries, participants, and organizers. The core message resonated deeply: ***radiation should be approached with knowledge and care, not fear.***


Present Energy Scenario in India


Career Prospects in Science and
Research Opportunities for Students


Water


One Day
Workshop
on
BENEFICIAL EFFECTS OF
ORGANIZED BY
INDIAN ASSOCIATION FOR RADIATION PROTECTION
In association with
Madhav Institute of Technology & Science, Gwalior, Madhya
(Deemed University)