

AMITY INSTITUTE OF NUCLEAR SCIENCE AND TECHNOLOGY

Human Reliability in Nuclear Sector for STEM students - Engineering Simulation Workshop

The event titled ‘**Who wants to be an Engineer?**’ is a technical competition organized by the Amity Institute of Nuclear Science and Technology (AINST), Noida, is a centre for excellence for quality education and expertise (UG/PG/PhD) in Nuclear Engineering, Physics and Chemistry.

‘**Who Wants to be an Engineer?**’ is a holistic competitive approach taken towards incorporating Human Reliability into the professional working life for all S.T.E.M. students.

Day 1: Participants will be given lectures by subject experts during workshop on “Human Reliability” in the Nuclear Sector. This lecture will be delivered in 2 phases:

- Phase 1: for UG and PG participants
- Phase 2: for school students as participants

Day 2: Based on the workshop on Day 1, the students will participate in a simulation based case study presentation where they will be given the accident scenario for a Major Nuclear Accident (as defined by the International Nuclear and Radiological Event Scale {INES}) where they will have to analyse the possible causes of failures and the relevant rectification that can be incorporated in the design of such a reactor system from their respective fields. Thus, students of Computer Science Engineering (CSE) will use their technical knowledge to ensure the safety system response coding as per the lecture delivered on Day 1.

To complete this analysis, a 20-minute window will be given followed by 5 minutes (per team) to present the findings.

Day 3: Following the competition, the students will be given a quiz of 2 rounds (with 10 questions each) on Human Reliability in Nuclear and affiliated sectors. The questions will be based on the lecture delivered on Day 1 and the competition on Day 2.

Learning Outcome: Spreading awareness on Nuclear Energy, improvements in risk management ability, coordination of different fields to solve a real-world problem

Eligibility:

- I) University: UG and PG students
- II) School: Classes 10th – 12th

Registration fee: NIL

Logistics Required: NIL

Date and Time of the Event:

- I) Day 1: 24th March, 2022 – Workshop
 - a. For university students: 11:00 AM
 - b. For school students: 02:30 PM
- II) Day 2: 25th March, 2022 – Competition and simulation workshop – 03:30 PM
- III) Day 3: 26th March, 2022 – Quiz – 03:30PM

Event Joining Details (link): <https://teams.microsoft.com/l/meetup-join/19%3ac18e1165aae543c5a78b9993a4efb757%40thread.tacv2/1644824360135?context=%7b%22Tid%22%3a%228d46a076-d093-416d-a57b-8692cde13bf8%22%2c%22Oid%22%3a%22bcf123c2-bd90-4977-89f8-e93041c882c7%22%7d>

Helpdesk/Whatsapp Number: +91-7042026802

Rules and Regulations:

- There are no cash rewards
- Participants will register via AYF 2022 official portal
- Coordinators:
 - Faculty: Dr. Arpita Dutta
 - Student: Ms. Chalamalla Ikshitha & Mr. Shreesh Sahai
- Judgement is based on specific criteria pre-provided to senior faculties of AINST for both events. The marking will be cumulative for both competitions on Day 2 (Simulation case study presentation) and Day 3 (Quiz of 2 rounds)
- **Last date for registration:** 22nd March 2022
- **Learning Outcomes:** Spreading awareness on Nuclear Energy, improvement in risk management ability, coordination of different fields to solve a problem.
- **Social media handle:** #AINST@AYF2k22
- **Targeted publicity platforms:** LinkedIn, Facebook, Instagram
- The required information for the events of Day 2 and 3 will be provided in the lecture on Day 1, and participation is compulsory for all 3 days

Prize: Certificates for Winners

Event Coordinators:

Faculty Coordinator	Student Coordinators	
Dr. Arpita Datta	i) Ms. Ikshitha Chalamalla	ii) Mr. Shreesh Sahai
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