

## EXPERT BIOGRAPHY:



### AKHIL KUMAR DAS

BTech ChE, IIT Delhi (1974)

MS Fire Protection Engineering, WPI USA (1984)

FIE (India), FIFireE (UK), Emeritus Member – AIChE

First Indian to earn this qualification

Lead Auditor – ISO 14001 & OHSAS 18001

FIE (India), FIFireE (UK)

Emeritus Member – AIChE

Member – Salamander Honor Society, USA

#### Experience:

- Assam Oil, IOCL, Loss Prevention Association of India
- Bongaigaon Refinery, KNPC Kuwait
- HoD ICEM Oman, Visiting Prof at UPES & NIT Meghalaya

#### Author:

- Principles of Fire Safety Engineering
- Principles of Industrial Safety Management

## ORGANIZING COMMITTEE

### PATRON

**Prof. Pinakeswar Mahanta**

Director, NIT Meghalaya

### ADVISORY COMMITTEE

**All Deans, HoDs & HoCs**

### CHAIRMAN

**Dr. Biplab Kumar Debnath**

Assistant Professor & HoD, ME

### CONVENOR

**Dr. Sambit Majumder**

Assistant Professor, ME

### COORDINATOR

**Dr. Md Nur Alom**

Assistant Professor, ME

### MEMBERS

**Dr. Koushik Das**

Associate Professor, ME

**Mr. Pratit Sunder Dev Roy**

Technical Assistant, ME

**Mr. Khoman Kumar**

Technician, ME

### CONTACT US

For any query, please contact

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Assistant Professor, ME

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## PROFESSIONAL DEVELOPMENT PROGRAM ON

## “OCCUPATIONAL SAFETY & HEALTH”

**DECEMBER 08-12, 2025**

*Organized by,*

**Department of Mechanical Engineering**



**राष्ट्रीय प्रौद्योगिकी संस्थान मेघालय**

**NATIONAL INSTITUTE OF TECHNOLOGY MEGHALAYA**

Saitsohpen, Sohra- 793108, Meghalaya, India

# ABOUT PROGRAMME

The 5-Day Professional Development Programme (PDP) aims to strengthen Occupational Safety & Health (OSH) practices among employees, focusing on fire safety, chemical safety, electrical safety, machine safety, and emergency response.

## DESIRED OUTCOME

- Aware of potential hazards at their workplaces
- Develop skills to assess the risk of their activities and prevent workplace incidents
- Select and establish preventive and corrective measures to combat workplace incidents
- Stay prepared to handle emergency situations on campus
- Guide peers and students on the above



## PROGRAM SCHEDULE

### DAY 01

- Session **01**  
10:00-11:00 AM
- Registration
- Inauguration
  - About the Workshop
  - Pre-Assessment
- Session **02**  
11:00-12:00 PM
- Lessons from loss incidents & Significance of QHSE in workplaces
- Session **03**  
03:00-04:00 PM
- Legal & Other Requirements on HSE

### DAY 02

- Session **04**  
10:00-11:00 AM
- Fire Science & Fire Dynamics
- Session **05**  
11:00-12:00 PM
- Passive & Active Fire Protection
- Session **06**  
03:00-04:00 PM
- Safe Work Practices, First Aid & Emergency Response
- Hands on Practice

### DAY 03

- Session **07 & 08**  
10:00-12:00 PM
- Safety with Chemicals
- Session **09**  
03:00-04:00 PM
- Explosions

### DAY 04

- Session **10**  
10:00-11:00 AM
- Electrical Safety
- Session **11**  
11:00-12:00 PM
- Machine Safety
- Session **12**  
03:00-04:00 PM
- Occupational Health & Hygiene



### DAY 05

- Session **13**  
10:00-11:00 AM
- Hands on Practice
- Session **14**  
11:00-12:00 PM
- Learning Evaluation & Programme Feedback
- Session **15**  
12:00-01:00 PM
- Valedictory Session**

