Dr. Pramoth R, B.E., M.Tech., Ph.D.,
Assistant Professor, Fire & EHS Engineering,
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Education

Ph.D. (2024): CEG – Anna University, Chennai
Thesis: "Resilience-based Integrated Process Systems Hazard Analysis Approach for a Chemical Storage Unit of Process Plant"

M.Tech. (2016): ACT – Anna University, Chennai
Specialization: Industrial Safety and Hazards Management

B.E. (2014): MIT – Anna University, Chennai
Specialization: Production Engineering

Key Skills

Dr. R. Pramoth provides academic and practical expertise in the following domains:

1. Hazard identification, risk assessment, and process safety evaluation in chemical and process industries.
2. Implementation of resilience-based safety models (RIPSHA) and ergonomics integration in industrial environments.
3. Development of safety inspection systems, audits, and EHS compliance consulting for manufacturing sectors.

Background

Joined GSFC University in June 2025. Previously served as Guest Faculty and Teaching Assistant at Anna University, Chennai.

Scholarship and Accomplishments

Dr. R. Pramoth is a dynamic academic and an accomplished safety professional whose scholarship is deeply rooted in advancing industrial process safety and resilient risk management systems. He has demonstrated unwavering commitment to excellence through his contributions to teaching, research, and institutional development.

Dr. Pramoth was **awarded the prestigious Rajiv Gandhi National Fellowship (2017–2022)** by the **University Grants Commission (UGC), Government of India**, in recognition of his outstanding academic record and promising research potential. His doctoral research, conducted at the College of Engineering, Guindy, Anna University, was titled *"Resilience-based Integrated Process Systems Hazard Analysis Approach for a Chemical Storage Unit of a Process Plant."* The work received **strong commendation from external examiners**, affirming its novelty, industrial relevance, and scholarly rigor.

A pioneer in **resilience-based safety analysis**, Dr. Pramoth introduced the **RIPSHA (Resilience-based Integrated Process Systems Hazard Analysis)** framework—an innovative model designed to improve hazard prediction, response capability, and risk minimization in complex chemical and industrial systems. His work has been published in **high-impact international journals**, including *Process Safety and Environmental Protection* and *Process Safety Progress*, marking him as a rising scholar in the field.

Dr. Pramoth has actively contributed to **regulatory and industrial safety efforts**, having served as an **Acting Committee Member** of the **Site Appraisal Committee** under the Directorate of Industrial Safety and Health, Guindy, Tamil Nadu (2018–2022). In this capacity, he provided expert safety assessments for hazardous industries and participated in environmental clearances and operational approvals.

His research bridges academic innovation with industrial applicability, empowering industries to adopt data-driven, resilient safety systems. He frequently engages in **faculty development programs**, presents at conferences, and mentors postgraduate students in emerging areas such as **industrial hygiene**, **ergonomics**, and **quantitative risk analysis**.

With a passion for lifelong learning and impactful teaching, Dr. Pramoth stands as a symbol of academic integrity, interdisciplinary research, and professional leadership in the domain of Fire & EHS education.

Most Notable Publications

1. **Pramoth, R**, Sudha, S & Kalaiselvam, S 2020, 'Resilience-based Integrated Process System Hazard Analysis (RIPSHA) approach: Application to a chemical storage area in an edible oil refinery,' *Process Safety and Environmental Protection, vol. 141*, pp. 246-258. **Impact Factor: 7.926.**

2. **Pramoth Rathinam**, Sudha Subburaj, Ameelia Roseline, A & Siva Kalaiselvam 2022,'Quantitative resilient investigation using RIPSHA approach and ANOVA validation for the ammonia storage unit', *Process Safety Progress, vol. 41*, no. 4, pp. 708-720. **Impact Factor: 1.294.**