Registration:

Course registration is to be performed on ERP of IIT Kharagpur website link:

https://erp.iitkgp.ac.in/CEP/courses.htm

Course Registration Fee:

A Registration fee (non-refundable) of Rs. 5,000.00 will be charged when applying for the course.

Course Fee:

For Indian Nationals

INR: 25,000 + GST (18%)

For Foreign Nationals

USD: 1,000 (including GST)

The registration fee and course fee are to be paid online through registration and payment gateway, only.

https://erp.iitkgp.ac.in/CEP/courses.htm

Limited Seats: 30 (Thirty only)

Address for Correspondence:

Prof. Neeraj Kumar Goyal (Coordinator)

Associate Professor

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Technical Principal- RAMS

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Participating Organizations (Earlier Editions):

- AECOM India Pvt. Ltd.
- Alstom Transportation
- ASCRIT Pvt. Ltd.
- Atkins, Bangalore
- Bangalore Metro Rail Corporation
- Bombardier Aerospace, Bangalore
- Bureau Veritas
- Central Electronics Limited
- Dedicated Freight Corridor Corporation
- DB International GmbH
- Delhi Metro Rail Corporation Limited, Delhi
- DNV GL Business
 Assurance India Private
 Limited
- DOS India
- Dubai Metro
- EGIS India Consulting Engineers Pvt Ltd
- Etap Automation Pvt Ltd
- Etihad Rail DB Operations LLC
- Expo link Route 2020
- Faiveley Transport India Pvt Ltd
- FCC Riyadh Metro Rail
- FLOW Riyadh Metro Rail
- G. G. Tronics
- Geometric Global
- Indian Railways
- JAKSON Ltd
- Kochi Metro Rail Ltd.
- Keolis Hyderabad Metro Rail Transit System
- L&T Construction
- L &T Metro Rail Hyderabad
- L&T Technology Services

- Louis Berger
- Maharashtra Metro Rail Corporation, Nagpur
- MEGA Company Ltd., Gandhinagar
- Metro One Operation
- Motorola Solutions India
- Mott MacDonald India
- Mumbai Metro One Pvt. Ltd.
- Mumbai Metro Rail Corporation Ltd
- National High Speed Rail Corporation Ltd
- Oriental Consultants
- RAMPED, Saudi Arabia
- Rapid Metro Gurgaon
- Rail Vikas Nigam Limited
- RITES Ltd.
- RTA Dubai
- RSK Business Solution Limited
- ODVC Doha, Oatar
- Saudi Arabian Parsons Limited, Riyadh
- Saudi Railway Company
- Scomi Engineering Bhd.
- SENER Ingenieria
 Sistemas
- Serco Limited
- Sidwal Refrigeration Industries Pvt. Ltd.
- Systra MVA Consulting
- Siemens Mobility
- Shimizu Corp., Singapore
- Tata Projects Limited
- ThyssenKrupp Elevator Saudi Ltd., Riyadh
- TVM Signalling and Transportation System
- Vedanta Limited

Short-term Course on RAMS for Railway Systems

(Online)

Dec 5-9, 2022



Organized By:

Subir Chowdhury School of Quality and Reliability, IIT Kharagpur, WB, INDIA

About Subir Chowdhury School of Quality and Reliability, IIT Kharagpur

IIT Kharagpur is the largest technical institution in India and gets ranked among best institutions in the country imparting technical education and research. The Subir Chowdhury School of Quality and Reliability was formerly known as Reliability Engineering Centre, which came into existence in 1983. The school offers M Tech, MS and PhD degrees in Quality and Reliability Engineering. Besides, the school is actively engaged in sponsored research and offers consultancy services to various public and private organizations.

Brief About the Course

Earlier Courses:

RAMS for Railway Systems course is being offered since last eight years. This course has been conducted during July 21-25, 2014; July 27-31, 2015; July 11-15, 2016; July 10-14, 2017; July 9-13, 2018; July 8-12, 2019, Dec 14-18, 2020 (Online), Dec 06-10, 2021 (Online). The programs received good response from industries in terms of participation and on completion of the course the feedbacks were highly positive. Based on the feedbacks and multiple requests received, the program is proudly being offered again. We look forward to benefit railways authorities and rail support industries through bringing awareness about System Assurance/RAMS processes and provide training on these concepts.

Who Should Attend?

Practicing RAMS professionals, Engineers, and Managers in the fields of design, development, consulting, manufacturing, audit, operations, maintenance, and QA/QC in the rail and rail support industries.

Industry Problem Discussions

If your organization or project is facing any challenge or problem related to RAMS, please feel free to write to us in the form below. This can be used during the program for discussion and resolution.

Name:						
Organization:						
Problem Statement:						
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Program Coordinators:

Coordinator:

Prof. Neeraj Kumar Goyal

Associate Professor Subir Chowdhury School of Quality and Reliability, IIT Kharagpur

Co-coordinator:

Dr. Ajeet Kumar

Technical Principal- RAMS Mott MacDonald, Bangalore, India

Faculty:

The program is designed and delivered by IIT Kharagpur faculty and RAMS experts with years of experience in System Assurance & RAMS on railway industries with cross-functional domain understanding of transport sectors. Almost all faculty members are currently associated with the industry in a consulting role.

Program Contents:

- Introduction to System Assurance & RAMS
- RAMS Parameters & Reliability Prediction
- Accelerated Life Testing
- Failure Data Analysis
- Failure Mode Effects and Criticality Analysis
- Fault Tree Analysis
- System Reliability Modelling
- RAM Analysis- A Case Study
- Functional Safety: Hazard, Risk, Risk Matrix, Risk Acceptance Principle and Criteria
- Safety Analysis & Management: PHA, SHA, IHA, O&SHA, Hazard Log, Safety Case
- Concept of THR, TFFR, SIL, and SIL Allocation- Case Study
- Understanding RAMS Standards for Railway Application - EN 50126, 50128 and 50129
- Discussion on RAMS Deliverables
- Safety Audit & Assessment- ISA Context
- Safety & RAM Demonstration during O&M