

REGISTRATION FEE:

**** INR: 40,000 only (For Indian Nationals)**

**** USD: 1,000 only (For Foreign Nationals)**

*****Limited Seats: 20(Twenty only)**

Registration fee to be paid in the form of Demand Draft drawn in favour of “**CEP-STC, IIT Kharagpur**” payable at “**Syndicate Bank, IIT Kharagpur**”.

Coordinator can be contacted for getting online transfer details and other payment related issues.

ACCOMODATION:

The accommodation will be provided to participants in our guest house on payment and request basis.

** Fee does not include travel and local hospitality.

For more details, please contact us.

ADDRESS FOR CORRESPONDENCE:

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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 Pandey**
RAMS consultant
L & T Technology Services

FACULTY:

The program is designed and delivered by experts with years of experience in RAMS analysis, metro and rail technologies. Almost all Faculty members are currently associated with the industry in a consulting role.

Participating Organizations in earlier Courses:

- ❖ L &T Metro Rail
- ❖ GG Tronix
- ❖ Bombardier
- ❖ Dedicated Freight Corridor Corporation
- ❖ Alstom Transportation
- ❖ Rail Vikas Nigam Limited
- ❖ Kochi Metro Rail Ltd,
- ❖ Keolis Hyderabad Metro Rail Transit System
- ❖ Atkins, Bangalore
- ❖ DB International GmbH (Kochi Metro Rail Project)
- ❖ Delhi Metro Rail Corporation Limited, Delhi
- ❖ Scomi Engineering Bhd. – Mumbai Monorail



A short term Course on RAMS for Railway Systems

July 10 -July 14, 2017



Organised By :
**Subir Chowdhury School of
Quality and Reliability,
IIT Kharagpur**

Brief of the Programme

Earlier Courses:

The first, second and third short term programs on RAMS for Railway Systems were conducted during July 21-25, 2014; July 27 – 31, 2015 and July 11-15, 2016. 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 Indian Railway in general through bringing awareness about RAMS concepts and provide basic training in these concepts.

Who Should Attend?

Practicing Professionals, Engineers and Managers in the fields of design, development, consulting, manufacturing, audit, operations, maintenance, and QA/QC in the rail or metro rail industry.

Program Contents:

- Introduction to RAMS Parameters
- Basic Probability and Statistics
- Failure Data Analysis
- Failure Mode Effects and Criticality Analysis
- System Reliability Modelling
 - a) Reliability Block Diagram
 - b) Fault and Event Tree Analysis
- Design for Reliability
 - a) Apportionment of RAMS Parameters
- Basics of V&V and Software Reliability
- Hazard Analysis, Risk Matrix and SIL Allocation
- CENELEC Standards- EN 50126, EN 50128 and EN 50129
- RAM and Safety demonstration during operation

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 Reliability Engineering. Besides, the centre is actively engaged in sponsored research and offers consultancy services to various public and private organizations.

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:-

A Short term course on RAMS for Railway Systems

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REGISTRATION FORM

Last date of Registration : 05th July, 2017

Fee payment by : 08th July, 2017

Name :

Designation :

Department :

Organization :

CONTACT INFORMATION

Address :

Telephone :

Mobile :

Email : _____

PAYMENT INFORMATION

Registration payment particulars:

DD No.....Date.....

Amount.....Bank.....

If payment is made online, then transaction details should be emailed

to: ngoyal@hijli.iitkgp.ernet.in

Signature of the Applicant with date