

LECTURE ON METRO AND HIGH-SPEED RAIL: A RELIABILITY PROSPECTIVE

Objective:

To provide the basic understanding and emerging opportunities in the area of New Generation Railways (Metro Rails, High Speed Rails, Bullet Train, etc.).

Who should attend this?

The seminar is meant for our future engineers of all the branches of engineering particularly B.Tech. (3rd and 4th Year), MCA & BCA (2nd and 3rd Year.) This seminar is also useful for M.Tech. and Ph.D. students for finding the new problems for their projects and thesis.

Benefits of attending:

- Get familiarity of Railways Projects, its various systems and subsystems.
- Gain acquaintance with various design and performance parameters of various railways systems.
- Get basic understanding of Reliability and its parameters and calculations.
- Get familiarized with the tools for RAM and safety analysis such as Fault tree analysis, FMECA, Event tree analysis, Reliability Block diagrams, etc.
- Get familiarized with the Reliability and Safety Standards applicable to Railway Systems such as: EN 50126, EN 50128 and EN 50129.

Faculty: Dr. Ajeet Kumar (L&T Technology Services, Bangalore, India.)

Faculty Profile:

- Dr. Kumar is post-graduate in Computer Science & Engineering from MNNIT (Motilal Nehru National Institute of Technology), Allahabad (India).
- He has done Doctorate in Reliability Engineering from IIT (Indian Institute of Technology), Kharagpur (India).
- He has about 16 years of
- experience in System Assurance and RAMS, immersed with Transportation Industries with cross-functional integration of Railways Systems and Infrastructures.
- Professional member of IET, UK and IEEE, USA, contributed of many research papers and articles on the subject, delivered many invited talks for industries and academia.
- He has contributed to many National and International Metro and Rail Projects- DMRC-Line 8, Sao Palo Line 6- Brazil, Doha Metro Project, Sydney Metro Project, Network Rail (UK), Hyderabad Metro Project (India), and Invensys Rail UK & USA.
- He has visited Japan, Australia, Qatar, during his stay with many companies such as D'Appolonia S.P.A. UAE, Alstom Transport, Bangalore, India, AECOM Hyderabad, India, and Cognizant Hyderabad, India, Relia System Hyderabad, India, L&T Technology, Bangalore, India.

Venue: BBD Auditorium, Lucknow

Date and Time: February 02, 2017 and 1:00- 4:00 PM

Seminar Contents:

- Introduction: Metro railways and projects
- Railway System Structure: Major Subsystems
- Design and Performance Parameters
- Introduction to Reliability Engineering: Tools & Techniques
- Introduction to Railway RAMS Standard
- Reliability Engineering Applications in Railways
- Rolling Stock (Mechanical & Electrical and Electronic)
- Signalling Systems (Electronics, Computer and IT)
- Track System (Civil & Mechanical)
- Power System and Traction (Electrical)
- Telecommunication System (Electronics, Computer and IT)
- Automatic Fare Collection System (Electronics, Computer and IT)
- Depot and Stations (Civil, Mechanical, Electrical and Electronic)
- Introduction to Railway RAMS Standard

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METRO AND HIGH-SPEED RAIL A RELIABILITY PROSPECTIVE

SPEAKER

**Dr. Ajeet Kumar (IIT Kharagpur)
L&T Technology Services, Bangalore, India**

DATE: 2/02/2017
TIME: 1:00- 4:00 PM
VENUE: Dr. AKHILESH DAS GUPTA AUDI.

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