INSTITUTE FOR STEEL DEVELOPMENT AND GROWTH (INSDAG)

ANNOUNCES

ONLINE TRAINING PROGRAMME ON

GANTRY GIRDER DESIGN

Gantry girders are a critical structural component in industrial projects such as steel plants, power plants, PEB sheds, and warehouses. Their design requires a thorough understanding of structural behaviour under moving loads, fatigue, impact, and column interactions. The programme covers a comprehensive overview of crane gantry systems, including types of cranes, key components, design considerations, supporting structures, and maintenance practices, followed by an in-depth focus on crane girder design, addressing loads and impact factors, influence line diagrams, maximum wheel loads, fatigue effects, column design considerations, and step-by-step design examples.

This training programme provides a holistic perspective on crane girder systems, combining both the fundamentals and design practices. Emphasis is placed on Indian codes and standards, precise load specifications, and practical industry practices. Subject matter experts will guide participants through analysis, design and maintenance issues, ensuring a balance of theoretical insights and real-world applications. Participants are encouraged to submit queries in advance, so these can be addressed during the technical sessions.

Who should join:

- Structural engineers and design professionals involved in industrial structures
- Engineers working in EPC companies, PEB firms, steel plants, and power plants
- Faculty members and postgraduate students specializing in structural engineering
- Young professionals (0–10 years' experience) seeking to strengthen their expertise in crane girder analysis and design

Participants are encouraged to share their real project problems / issues during the registration or later (up to 12th November 2025) through email (seminars@insdag.com). Remedial measures / solutions / answers may be addressed by the trainers during their respective lectures. Certificate will be issued to all participants on successful completion of the online course.

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Rs 2500/- + 18% GST = Rs 2950/- per participants

Discounts:

- 30% for Individual / Student members of INSDAG and nominations from INSDAG member organizations
- Additional 5% for Bulk nominations (≥ 5 nominations)

Last Date of Registration: 12th November (Tuesday), 2025

Scan here to register or visit
https://www.insdag.com/event

Coordinator: Shiladitya Chanda
Mob: 9830087833
Email : seminars@ insdag.com / shiladitya.chanda@ insdag.com

14 NOV, 2025

14:30 Hrs to 17:30 Hrs (IST)

TRAINING SCHEDULE

TIME SLOT	TOPICS	PRESENTER
14.15 – 14.30	Inauguration & Overview of Training Programme	INSDAG, Kolkata
Lecture 1 (14.30 – 15.45) Q&A – (15.45 – 16.00)	Overview of Crane Grider System	Sandip Kumar Pal M/s Adani Power Ltd, Ahmedabad
Lecture 2 (16.00 – 17.15) Q&A – (17.15 – 17.30)	Design of Gantry Girders	D K Basak M/s M. N. Dastur & Co. (P) Ltd, Kolkata

PRESENTERS

Dipak Kumar Basak is the Technical Director at M. N. Dastur & Co. (P) Ltd., a leading Consulting Engineering firm based in Kolkata. During his long career he was associated with various projects in steel and other non-ferrous industries executed in India and abroad. His expertise extends in the field of structural engineering, design optimization, technical feasibility studies for greenfield and brownfield projects. As a part of design teams entrusted to resolve site execution problems and review quality of erected structures, he gained valuable insights in various types of defects that happen during Structural erection.

Dipak Kumar Basak
Technical Director M/s M. N. Dastur & Co. (P) Ltd. Kolkata

Sandip Kumar Pal
Associate Vice President and HoD, Civil & Structural Engineering M/s Adani Power Ltd, Ahmedabad

Started his career from M.N. Dastur & Co Ltd., Kolkata with Steel Plant engineering. He was associated with various steel plant modernization projects like Rourkela Steel Plant, Tata Steel, Jamshedpur, Ispat Metallics, Dolvi etc. Apart from Steel Plants, he also worked for various projects for Cement Plants, Captive Power Plants, Metro Railways etc. while working in M.N. Dastur. After spending more than 8 years in M.N. Dastur, he shifted to Power Plant engineering and joined SIEMENS. There he worked for more than 2 years and then he continued to work for various renowned companies like ALSTOM, L&T Sargent & Lundy and GE Power. He spent more than 17 years in the field of Power Plant engineering and worked extensively in almost all areas of power plants structures. He is very conversant with both steel and concrete structures with special interests in steel structures analysis and design