

IIT Ropar & CII announce admission

3rd Batch

Online Postgraduate Professional Development Program in Corrosion Management and Technology

Academic Session (October 2024 – May 2025)

Weekend Online Classes, Every Friday & Saturday, 6 PM to 8 PM

Industry-Focused Online Continuing
Education Program by IIT Ropar &
CII Corrosion Management Division

Accelerate Your Career Growth in
Corrosion Management

"Last Date to Apply 10 October 2024" (Limited Seats)

Voice of Candidates from Batch 1 & 2



I have learnt more through this course than attempts made to learn online. Corrosion Engineering is a vast field encompassing many aspects of engineering from, electrical, chemistry, metallurgy, environment etc. The faculty of CII have taken all care to combine all of those through easily understandable Presentations and Lectures for ease of understanding and to deliver online to a diaspora that has connected from all over the world. I would like to advise this course to all budding corrosion engineers to learn as well as seasoned corrosion engineers to refresh their knowledge.

Mr. V.K.N. Umasankar, Lead Integrity and Reliability, Antonoil Services DMCC, Majnoon Oilfield - Iraq



"The program is designed in such a manner that almost all the concepts in Corrosion are covered and taught, from Protective Coatings to Cathodic Protection, Material Selection to Design, and Chemical Inhibitors that are applicable to industries such as Oil/Gas, Petrochemical, Paper/Pulp, Roadways, Automotive, Nuclear, Infrastructure, Airlines, etc. The course is designed to enhance knowledge in the field of Corrosion and its Control, Management including Sustainability. The tutors/mentors are highly experienced, and the lectures presentations are helpful at any instance that can be used as a guide in real-life and/or work/job scenarios and the mentors encourage the participants to ask/send emails regarding their doubts in their respective work fields."

Mr. Sivakumar Venkatesan, Offshore Inspector, FPSO Baobab-MODEC



"This course is very well designed for the corrosion engineering professional as well as for design engineering professionals. By attending this course and interacting with various industries stalwarts in the field of corrosion engineering and inspection, helps to understand the mechanism of corrosion, metallurgy, and inspection techniques to restrict the corrosion problems in the petrochemical, refinery and other chemical industries. This course has helped me a lot in my day-to-day engineering work to cater the corrosion first at design stage only. The tremendous effort for designing this course to suit the industries and extended efforts on weekends to provide us a learning a platform, enhances the cutting-edge corrosion knowledge of people like us.

Mr. Manish Darji, DGM, Piping Material Engineering, Reliance industries Ltd



"The Corrosion Management Program has provided a solid and comprehensive understanding of corrosion principles and their practical applications. The program covered a wide range of topics from basic corrosion principles to advanced prevention methods. The structured approach ensured a progressive build-up of knowledge. The emphasis on real-world applications, including laboratory sessions provided hands-on experience. This practical lab approach reinforced the theoretical knowledge gained. Queries were addressed promptly, and the guidance provided was always helpful. Overall, the Corrosion Management Program has been highly satisfactory, providing a robust foundation and practical skills essential for managing corrosion in various industrial contexts.

Mr Ahamed Abdulkader Ansari, Sr. Analyst, SABIC



The PG professional development in Corrosion Management and Technology is designed to provide a comprehensive understanding of the principles and practices related to corrosion, its impacts, and the techniques used to manage and mitigate corrosion.

It is well-structured Corrosion Management and Technology course can equip professional with the necessary skills and knowledge to effectively manage and prevent corrosion, thereby enhancing safety, reliability, and longevity of structures and components across various industries. I thank you both IIT and CII for extended supports

Mr Vijayakumar Kannaiyan, Sr. Principal Engineer, Linde Engineering, HPCL

Background

What is so important about corrosion? The global cost of corrosion is estimated to be US\$2.5 trillion, which is equivalent to 3.4% of the global GDP (2013). These costs typically do not include individual safety or environmental consequences. Through near misses, incidents, forced shutdowns (outages), accidents, etc., several industries have come to realize that lack of corrosion management can be very costly and that, through proper corrosion management, significant cost savings can be achieved over the lifetime of an asset. It has significant costs to society. Besides the direct monetary loss to corrosion, it can compromise people's safety and life of infrastructure. It is in the country's best interest that corrosion be mitigated as much as possible.

Domain Experts and Professionals are needed to mitigate the menace of corrosion so that assets can have a safe, reliable, and longer service life. Since corrosion engineering is an emerging & niche field, it can accelerate career growth of working professionals as well as new job openings are expected.

Engineers, Corrosion Auditors, and Technologists are employed in the field of corrosion engineering & management. Completing a four-year degree in a relevant engineering discipline is usually the first step towards a career in corrosion engineering. Engineering disciplines typically involved in the industry are mechanical engineering, civil engineering, chemical engineering, electrical engineering, materials engineering, marine engineering, metallurgical engineering, and corrosion engineering. Those trained in corrosion engineering are employed in industries where corrosion is a particularly significant safety or economic issue. The professionals are mostly found in the oil and gas industries, manufacturing, EPC & civil infrastructure, marine industries and as Corrosion Experts & Auditors with consulting agencies and Corrosion Technology providers. The corrosion engineering industry is a fascinating option worth checking out. It could be the career path you've been looking for.

With the objective of competence development and enhancing job prospects in corrosion engineering and management and to create world class leaders into the domain, CII jointly with Indian Institute of Technology Ropar, Punjab have designed the "Online Postgraduate Professional Development Program in Corrosion Management and Technology". The course aims at creating world class professionals in Corrosion Engineering and Management Domain by facilitating industry oriented online continuing education program for working professionals, Fresh Graduates / Post Graduates and for those who wish to build their career in corrosion management field.



Program Highlights

- Industry Oriented Advanced Program for Working Professionals helping in career growth and better job prospects for Young Engineers.
- Learning and Mentorship from Eminent Experts in Corrosion Management, Technology and Asset Management.
- Exposure to Industrial Best Practices and Case Studies
- Highly interactive virtual classrooms
- IIT Ropar Visit

Career Prospects

- Opportunity to pursue and upgrade career as Corrosion Manager/Corrosion Professional
- Highly Job Oriented Course for Engineering Graduates/ Master of Science or Engineering Diploma holders to pursue career as Corrosion Engineer/ Corrosion Analyst/ Corrosion Auditor in India & abroad.
- Professionals to Build Proficiency in Corrosion Management.
- Opportunities for start-ups in emerging field of corrosion audit and management.

Who Should Join?

- Working professionals from PSUs/ Industry/ Consulting Firms/ Oil & Gas & Process Sector, EPC Sector/ Defense/ Shipping/ Railways etc.
- Practicing Corrosion Management and Asset Management Professionals
- Production/Maintenance/Design/Project/ EHS/Quality Engineers/Managers
- Fresh Engineering Graduates & Postgraduates / Postgraduates in Science Streams

Eligibility :

Minimum qualification required:

- Bachelor's Degree in Engineering
OR
- Master of Science or Diploma with at least 2 years of work experience

Program Structure:

The program comprises of virtual classroom, assignments, and Project work. Recordings of all the lectures/classes would be available for the reference. Course would mainly focus on practical case studies, analysis of corrosion failures, practical project work and assignment based on practical aspects, corrosion audits etc. Focus of the course would be to develop an understanding of corrosion, its mitigation & management and technology at global level, country level, industry level and as professionals with an aim to create corrosion expertise & leadership. Every subject would have experts' lectures from globally renowned experts, IIT faculty members, CII – CMC, professionals including CEOs, MDs, and Heads of various business segments.

The following subjects will be covered in two Parts.

Part I

- Understanding Corrosion
- Materials and Corrosion
- Microbiologically Influenced Corrosion and its Control, Water Treatment Chemistry
- Protective Paints & Coatings
- Approach to Corrosion Management

Part II

- Corrosion Inhibitors Application, High Temperature Corrosion, Pipeline Corrosion
- Cathodic Protection, Corrosion of Steel in concrete structure
- Corrosion Management of Process Industry & Failure Analysis
- Technology and Innovations in Corrosion Management
- Industrial Project

Program Fee *

For Indian Participants: Rs. 60,000 + 18% GST, For International Participants: US \$ 1200

Fee can be paid in following two modes:

a) Lump sum fee at the time of registration: Rs. 57,000 + 18% GST Or US \$ 1150 (Special 5% for early bird discount)

b) Program Fee in Installments –

1st Installment during program registration: Rs 20,000 + 18% GST Or US \$ 400

2nd Installment within two weeks of registration: Rs 20,000 + 18% GST Or US \$ 400

3rd Installment before 2nd Semester by (Dec 2024): Rs 20,000 + 18% GST Or US \$ 400

***Program fee is non- refundable**

Program Fee *

Corporate nominations can be submitted by HR/Training department. Other individuals may register through online registration link or by email nomination. The admission to the program shall be done on first come first serve basis, subject to fulfilling the eligibility criteria. Program fee can be paid through NEFT, IMPS, UPI, Debit/Credit card or Net-banking.

- Corporate discount -
- 3 to 5 nominations = 5%
- 6 to 10 nominations = 7%
- More than 10 nominations = 10%

Bank details for NEFT/ IMPS:

Bank Name: ICICI Bank Ltd,
Address: Sector-28, Chandigarh,
A/C Name: Confederation of Indian Industry,
A/C No: 096405000413,
IFSC Code: ICIC0000964

Required Documents:

Scanned copies of,

- Aadhar Card/ PAN Card/ Any other National Identify Card
- Graduation Degree/ Provisional Completion Certificate
- High School Certificate/ Mark-sheet
- Passport Size Photograph

Important Dates:

Last Date for Registration: 10 October 2024
Program commencement: 18 October 2024

Program Certificate

The evaluation will be based on assignments, project work and examinations. Candidates completing the program with satisfactory performance in evaluations will be awarded with Certificate of Completion jointly by IIT Ropar & CII Certificate of Participation will be awarded jointly by IIT Ropar & CII to the candidates for completing the program, to whom certificate of completion cannot be awarded.

Program Benefits

Learning from the program will upgrade existing industry professionals to an expert in the field of corrosion management. For fresh graduates/post graduates this program will be highly beneficial to get in-depth knowledge on corrosion management and technology domain and to start their career journey into corrosion management.

Participants will also get complementary registration in flagship events and conferences of CII like CII National Corrosion Circle Competition, Corrosion Summit, Conference on Addressing Corrosion in Auto & Auto Component Industry, and other virtual training programs related to corrosion.

Steps of Online Registration:

1. Online registration link-

<https://cam.mycii.in/ORNew/Registration.html?EventId=E000066187>

2. Select Participant type- Mode of Fee (Lumpsum or 1st Installment)

3. Mention details like Name, Designation, organisation, address, Contact details etc

4. Mention Educational Qualification and Professional Experience (in Years)

5. Select GST: For Billing on GST Number and Company Name (Address should be billing address of company)
OR Select PAN: For Individual/ Self-Sponsored Candidate (Correspondence Address of candidate)

6. Select Currency (INR/ USD)

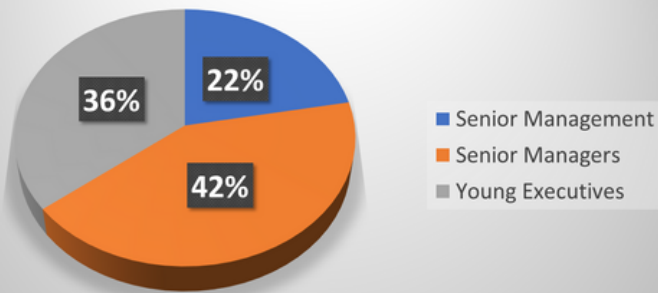
7. After completing the payment process, a system generated confirmation mail will be sent to registered email address.

8. CII would send communication for the submission of soft copies of required documents.

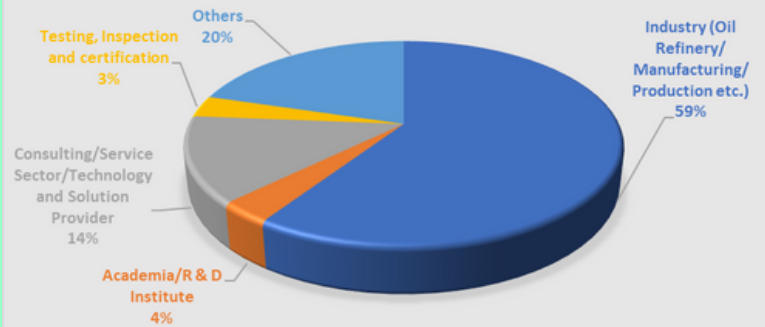
9. Participants will receive the registration number after document submission and verification.

Candidates Profiles from Previous Batch of 2023-2024

Present Role of Participants



SECTORAL DIVERSITY

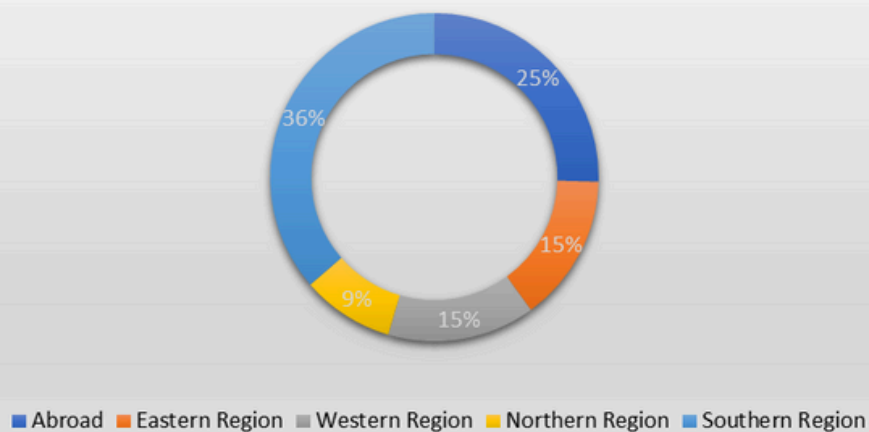


Senior Most Profile-
Scientist -F



Youngest Profile-
Student

Geographical Representation





Confederation of Indian Industry

Indian Institute of Technology Ropar ranked among the top 25 Engineering institutions in India, being ranked 22nd in NIRF 2022 rankings. The Institute has been also ranked in the Overall Category, bagging 33rd rank in India. IIT Ropar's research quality and impact can be ascertained from the average citation per paper, which stands at 17.75 with an H-Index of 84. This is the highest but one among all the young generation IITs as per recent Scopus data.

Key Impact of CII Corrosion Management Services

- 50+ training Programs Pan India Impacting nearly 1500 organisations and 2500 Managers & Engineers
- 21 organisations benefitted from Corrosion Audits
- 26 Industry specific booklets on Corrosion Management available
- 1000+ people trained as Corrosion Managers
- 15 sectoral focused awareness sessions conducted benefitted 1500+ participants
- 250+ participants benefitted from CII CORTEM 2024
- 60+ Case Studies on Corrosion Management during Corrosion Competition & Awards

For further details, Please Connect:

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Confederation of Indian Industry

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The Confederation of Indian Industry (CII) works to create and sustain an environment conducive to the development of India, partnering Industry, Government and civil society, through advisory and consultative processes. For more than 125 years, CII has been engaged in shaping India's development journey and works proactively on transforming Indian Industry's engagement in national development. With its extensive network across the country and the world, CII serves as a reference point for Indian industry and the international business community. In the journey of India's economic resurgence, CII facilitates the multifaceted contributions of the Indian Industry, charting a path towards a prosperous and sustainable future. With this backdrop, CII has identified "Globally Competitive India: Partnerships for Sustainable and Inclusive Growth" as its Theme for 2024-25, prioritizing 5 key pillars. During this year, it would align its policy recommendations, initiatives, and activities with this overarching framework to facilitate strategic actions for driving India's global competitiveness and growth through a robust and resilient Indian Industry.



CII – Corrosion Management Division

CII initiated a service on Corrosion Management with the objective of helping organisations in addressing the adverse effects of corrosion. As one of initiatives to network expertise related to corrosion available in India, the Centre formed a "Corrosion Management Committee" (CMC) in the year 2007 under the Chairmanship of Late Dr. Baldev Raj, Distinguished Scientist & Former Director, Indira Gandhi Centre for Atomic Research (IGCAR). The CII – CMC & CMD is presently chaired by Dr. U Kamachi Mudali, Vice Chancellor, Homi Bhabha National Institute (HBNI)



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