

Course Number
IIM-26-115



ONLINE MODE

7 th & 8th
October 2026



9:30 - 13:30
Each day

COURSE ON

AI-DRIVEN STEELMAKING :

**From Metallurgical Intelligence to
 Digital Twins, Intelligent Process
 Control & Industrial Decision Support**
 The Indian Institute of Metals
 Short Professional Educational Courses (Online)



COURSE OVERVIEW

The next competitive advantage in steelmaking will not come from having more data—it will come from making better decisions with the data already available.

As steel plants become increasingly automated, connected and data-rich, Artificial Intelligence (AI) is emerging as a powerful enabler of smarter, faster and more efficient steelmaking.

This 8-hour workshop, “AI-Driven Steelmaking: From Metallurgical Intelligence to Digital Twins, Intelligent Process Control & Industrial Decision Support,” explores the practical integration of AI, machine learning, metallurgical knowledge, physics-based models and Digital Twins to address real-world steelmaking challenges.

The programme covers applications including temperature prediction, slag intelligence, process optimisation, energy and alloy consumption reduction, abnormality detection and predictive equipment health monitoring.

Moving beyond prediction to decision support and intelligent process control, the workshop demonstrates how AI can transform plant data into actionable metallurgical intelligence.

The objective is not to replace the metallurgist with AI, but to empower metallurgists and engineers with a smarter intelligence layer for faster, safer and more economically sound decisions.



COURSE OUTCOMES

- Apply AI and metallurgical intelligence to predict critical steelmaking process variables and outcomes.
- Understand Digital Twins and intelligent process control through the integration of plant data, sensors, AI, simulation and metallurgical models.
- Use AI-driven insights for industrial optimisation of energy, alloy consumption, productivity, quality, cycle time and operational efficiency.
- Evaluate and deploy AI solutions with consideration of data quality, uncertainty, explainability, model reliability, human expertise and business value.

Participant Type	Course Fees
IIM Member	3350+603* = 3953
IIM Non-Member	5000+900* = 5900
Student Member	800+144* = 944
Student Non-Member	1200+216* = 1416
* GST	



BANK DETAILS

A/c name: The Indian Institute of Metals
 Bank: State Bank of India, SME Branch,
 Salt Lake, Branch Code: 04289,
 IFSC Code: SBIN0004289
 Current A/c No.: 54015600024
 GST: 19AAATT3359D1ZF
 PAN: AAATT3359D

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for Payment



CONTACT PERSON

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**Participants are
 requested to register via**

<https://forms.gle/xBpDVoewtq4PXSTU7>
[For Individuals]

<https://forms.gle/2SjuDJZMrsALC1BN9>
[For Organizations]