International Symposium on "Materials for Green, Sustainable and Nuclear Energy Applications"

&

80th Annual Technical Meeting of IIM - 2026

PROGRAMME SCHEDULE

DAY 1: 10th December 2026

International Symposium on "Materials for Green, Sustainable and Nuclear Energy Applications"

Inaugural Programme

Time	Programme
08:00 – 09:00	Registration
09:00 – 11:30	Inaugural Ceremony of the International Symposium followed by Plenary Sessions
11:30 – 11:35	Inauguration of Technical Exhibition
11:35 – 12:00	**High Tea**

Technical Sessions

Time	Track – A (Materials for Sustainable Green Energy)	Track – B (Materials for Nuclear Applications)
12:00 – 13:30 Technical Session 1	Energy Storage Materials & Batteries	Nuclear Fuel & Structural Materials
13:30 – 14:30	**Lunch Break**	
14:30 – 16:00 Technical Session 2	Advanced Materials for Sustainable Energy	Materials for Advanced Nuclear Reactors
16:00 – 16:15	**Tea Break**	
16:15 – 17:45 Technical Session 3	Recycling, Circularity and Sustainable Energy Technologies	Materials Performance in Extreme Environments

DAY 2: 11th December 2026

80th Annual Technical Meeting of IIM - 2026

Programme

Time	Programme	
09:00 – 10:30	Inaugural Ceremony of the 80th Annual Technical Meeting of IIM – 2026 and Conferment of IIM Awards	
10:30 – 10:45	**High Tea**	
10:45 – 12:15	Parallel Technical Sessions – 1	IIM-TMS session-1 (**11:00 – 13:00)**
12:15 – 13:45	Parallel Technical Sessions – 2	
13:45 – 14:30	**Lunch Break**	
14:30 – 16:00	Parallel Technical Sessions – 3	IIM-TMS session-2 (**14:30 – 16:30)**
16:00 – 17:30	Poster Session – 1 & Metallography Contest	

DAY 3: 12th December 2026

80th Annual Technical Meeting of IIM – 2026

Programme

Time	Programme
09:00 – 10:30	Parallel Technical Sessions – 4
10:30 – 10:45	**Tea Break**
10:45 – 12:15	Parallel Technical Sessions – 5
12:15 – 13:45	Poster Session – 2
13:45 – 14:30	**Lunch Break**
14:30 – 16:00	Parallel Technical Sessions – 6
16:00 – 17:00	Valedictory Session: Awards distribution for Oral Presentations, Poster and Metallography

IIM ATM 2026: Tentative Technical Sessions Plan (Day-2 and Day-3)

Theme	Day 2 – 11th Dec 2026			Day 3 – 12th Dec 2026		
	Session-1 10:45–12:15	**Session-2 12:15–13:45**	**Session-3 14:30–16:00**	**Session-4 9:00–10:30**	**Session-5 10:45–12:15**	**Session-6 14:30–16:00**
Advances in Ferrous Metallurgy (FE)	TS1-FE1: Iron Ore Beneficiation and Raw-Material TS1-FE2: Sintering and Agglomeration TS1-FE3: Sintering and Agglomeration	TS2-FE4: Blast Furnace Ironmaking TS2-FE5: Hydrogen-Based Ironmaking and Ferroalloys TS2-FE6: Coke-Making and Decarbonization	TS3-FE7: Primary Steelmaking TS3-FE8: Secondary Metallurgy and Steel Cleanliness TS3-FE9: Casting	TS4-FE10: Challenges in Wire and Rod manufacturing TS4-FE11: Advanced High-Strength Steels TS4-FE12: Alloy Design and Thermo-mechanical Processing	TS5-FE13: Stainless Steels TS5-FE14: Heat Treatment and Martensitic Steels TS5-FE15: Structure-Property Correlation	TS6-FE16: Forming Technologies TS6-FE17: Corrosion and Failure Analysis TS6-FE18: Process Optimization in Steel Industry
Advances in Non-Ferrous Metallurgy (NFE)	TS1-NFE1: Alloy Microstructure and Mechanical Behaviour	TS2-NFE2: Advanced Alloys and Component Engineering	TS3-NFE3: Physical Metallurgy	TS4-NFE4: Aluminium and Copper Alloy Processing	TS5-NFE5: Extractive Metallurgy and Metal Recovery	TS6-NFE6: Physical Metallurgy
High Temperature Materials (HT)	TS1-HT1: Alloy Processing	TS2-HT2: Refractory Alloys	-	TS4-HT3: Mechanical Behaviour	TS5-HT4: Superalloys	TS6-HT5: Strategic Application
Advanced Characterization Techniques (CHAR)	TS1-CHAR1: Microstructural Characterization	-	TS3-CHAR2: Thermo-Physical Properties	TS4-CHAR3: Microstructure-Property Correlation	-	TS6-CHAR4: Structural Integrity
Advanced Materials and Processes (AMP)	TS1-AMP1: High Entropy Alloys	TS2-AMP2: Materials for Critical Applications	TS3-AMP3: Advance Manufacturing and Joining Technologies	TS4-AMP4: Processing of Steel and Light Alloys	TS5-AMP5: Advanced Alloy Processing and Characterization	-
Advanced Composites (COMP)	TS1-COMP1: Metal-Matrix Composites	TS2-COMP2: Composites for Sustainable Applications	-	-	TS5-COMP3: Ceramic-Based Composites	-

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Material Recovery and Recycling for Clean Energy Transition (RecGreen)	TS1-RECGREEN1: Rare Earths	-	TS3-RECGREEN2: Battery and Waste Recycling	TS4-RECGREEN3: Sustainable Recycling and Resource Recovery	-	-
Advances in Nuclear Materials (NUC)	-	TS2-NUC1: Irradiation Behaviour	TS3-NUC2: Advanced Materials	-	TS5-NUC3: Microstructure and Mechanical Behaviour	-
Industry 4.0 Technologies (IND)	-	TS2-IND1: Intelligent Materials Processing	-	-	TS5-IND2: Prediction and Monitoring	TS6-IND3: Vision and Digital Enabled Solutions
Green Energy Production and Storage (ES)	TS1-ES1: Green Energy & Hydrogen Production	-	TS3-ES2: Energy Storage	-	TS5-ES3: Energy and Sustainable Materials	-
Additive Manufacturing (AM)	-	-	TS3-AM1: Microstructural Evolution	TS4-AM2: Performance & Property Evaluation	TS5-AM3: Deformation Processing	TS6-AM4: Bio-Materials and Processing
Functional Materials (FM)	-	TS2-FM1: Energy-Harvesting Materials	TS3-FM2: Electronic Devices	TS4-FM3: Nanomaterials	TS5-FM4: Biomaterials & Coatings	-
Surface Engineering & Development (SURF)	TS1-SURF1: Wear Resistant Coatings	TS2-SURF2: Corrosion Behaviour	-	TS4-SURF3: Microstructure & Phase Evolution	-	TS6-SURF4: High Temperature Applications TS6-SURF5: Surface Treatments for Novel Applications
AI/ML & Computational Materials Science (CMS)	TS1-CMS1: Phase-Field Modelling	TS2-CMS2: Artificial Intelligence	TS3-CMS3: Machine Learning	TS4-CMS4: Multiscale Simulation	-	TS6-CMS5: Data Driven Process Control