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INSTITUTE OF MATHEMATICS AND APPLICATIONS
(Science & Technology Department, Govt. of Odisha)
Andharua, Bhubaneswar-751029. Website: <https://www.iomaorissa.ac.in>

Letter No: IMA/42-Seminar/ 1023 /2026

Date: 5-8-2026

Seminar Notice

Date: Monday, September 07, 2026
Time: 4:00 PM – 5:00 PM
Venue: T. Pati Hall, IMA, BBSR
Speaker: Dr. Hemant Kumar Rath,
Principal Scientist & Distinguished Engineer at TCS Research
Topic: Industry 5.0: Future Ahead.

Abstract:

Industry 5.0 represents the next phase of industrial evolution, moving beyond the automation-driven paradigm of Industry 4.0 toward a human-centric, sustainable, and resilient industrial ecosystem. This talk explores how emerging technologies such as Artificial Intelligence (AI), Digital Twins, collaborative robots, edge-cloud computing, and 5G/6G networks are enabling seamless collaboration between humans and intelligent machines. The discussion highlights the shift from automation to augmentation, where technology enhances human creativity, decision-making, and productivity rather than replacing human expertise. The talk also examines the roles of sustainability, resilience, and ethical innovation in shaping future industries, supported by real-world use cases across manufacturing, healthcare, smart infrastructure, and autonomous systems. Finally, it presents key challenges, research opportunities, and future directions for building Industry 5.0 systems that align technological progress with societal well-being and environmental responsibility.

All are cordially invited to attend the seminar.

This has the approval of Director.


Seminar In-Charge
IMA, Bhubaneswar

Copy forwarded for information and necessary action to:

1. Dr. Hemant Kumar Rath, Principal Scientist & Distinguished Engineer at TCS Research.
2. The Academic Co-ordinator & All Faculty Members, All Sections, All Notice Boards of IMA, BBSR.
3. The In-Charge of Public Address System for arrangement of Public Address System at the venue.
4. The System Analyst, IMA to host the notice in IMA website.
5. All Notice Boards of IMA.
6. The Supervisors (Security & Horticulture), IMA for information and needful preparatory.

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