



**MAHATMA GANDHI**  
**INSTITUTE OF TECHNOLOGY (Autonomous)**  
Kokapet(Village), Gandipet, Hyderabad, Telangana – 500075. www.mgit.ac.in  
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A++ NAAC | NBA

**MOTIVATE  
INNOVATE  
EMPOWER** **28**  
YEARS

A 2-Day National Seminar on

## Recent Advances in Materials and Manufacturing Technologies – 2025 (RAMMT-2025)

Organized by

Dept. Metallurgical and Materials Engineering, Mahatma Gandhi Institute of Technology (Autonomous), MGIT, CBES, Gandipet, Hyderabad-500075, Telangana, India

In association with Tanjore Ramachandran Anantharaman Education and Research Foundation (TRAERF), Hyderabad

Under the Aegis of IIM Hyderabad Chapter, Hyderabad; Society for Failure Analysis (SFA), Hyderabad

13<sup>th</sup> & 14<sup>th</sup> Feb, 2025 (09.30 – 17.00h)

Venue: MGIT Auditorium, MGIT



### MGIT: An Institution of distinctive eminence

**M**ahatma **G**andhi **I**nstitute of **T**echnology (Autonomous), Hyderabad, was established by Chaitanya Bharathi Educational Society (CBES) in 1997 in a serene and tranquil atmosphere at Gandipet, Hyderabad. MGIT is rated to be one of the premier Engineering Colleges in the self-financing category in the state of Telangana. The campus bustling with a number of activities, assiduously supported by the management, teaches a few unique branches of Engineering, namely flagship programs, Metallurgical and Materials Engineering and Mechatronics along with Civil Engineering, Mechanical, ECE, EEE, CSE, CSE-AI&ML, CSE-Business System, CSE-Data Science. MGIT also offers postgraduate programmes in the streams of Mechatronics, Digital Electronics and Communications Engineering, Power Electronics and Electrical Devices, Computer Aided Structural Engineering, and Artificial Intelligence. The Institution has been accredited by National Board of Accreditation (NBA), New Delhi for 4 times and by NAAC with A++ Grade. This distinct Institute offers two Recently the Institution has been specially recognized by AICTE to initiate the undergraduate programs for working professionals, which has enhanced the reputation of the Institute across the nation.

### About Department of MME, MGIT

The Department of Metallurgical and Materials Engineering (MME) was incepted along with other Engineering disciplines with the noble thought of spreading the importance of core engineering disciplines. The faculty members of the department are well qualified, highly experienced and are in consultation with renowned agencies in pursuing innovative research projects. The department enthusiastically motivates its undergraduate students to upgrade their technical, communicative and organizational abilities to transform them to be employment ready.

### About the RAMMT - 2025

Advanced Materials and Materials based Products as also their Manufacturing Technologies constitute the core competence of any Society. UN has identified materials and materials resources as the fundamental needs and also, ranked them in the first 5 important global resources. India is on the doorstep of a New Industrial Revolution to become Atma Nirbhar / Self-Sufficient. In order to reach this goal, one needs not only to learn the latest global developments, but also should be able to address the gaps in Advanced Materials Technologies, their Manufacturing Facilities and also, be able to predict future requirements for strategic and commercial consumption. The RAMMT-2k25 will be the platform for academic researchers, several national experts and local industrial luminaries to address the recent developments in Advanced Materials Research and their Manufacturing Technologies. RAMMT will also brainstorm on projects and programmes of national importance as also, identify a few specific areas of immense and immediate value for the Indian Industries. Eminent speakers will deliver the Keynote Lectures enhancing the value of the takeaways from the 2-day RAMMT-2025 National Seminar Proceedings.

### Seminar Topics

- **Advanced Materials**
- **Nano & Functional Materials**
- **Advanced & Modular Composites**
- **Niche Manufacturing Technologies**
- **AI for & in Materials and Manufacturing**

## Technical Programme

**DAY – 01 13.02.2025 (Thursday)**

**10.00h Inaugural Function**

**11.00h Plenary Talk**

By  
Professor Dr. N Eswara Prasad  
New Materials & Niche Technologies

**12.00h High Tea**

**12.30h Keynote Lecture - 01**

By  
Dr. Mithun Palit

**13.10h Keynote Lecture - 02**

By  
Professor SRK Malladi

**13.45h Lunch**

**14.30h Invited Lecture - 01**

By  
Professor Sukla Mondol

**15.10h Invited Lecture - 02**

By  
Dr. Ravi Bollina

**15.40h Invited Lecture - 03**

By  
Professor Rajesh Korla

**16.20h ANNOUNCEMENTS**

**16.30h DEPARTURES**

**DAY – 02 14.02.2025 (Friday)**

**10.00h Keynote Lecture - 03**

By  
Professor K Ravi Sankar

**10.50h Keynote Lecture - 04**

By  
Dr. L Ramakrishna

**11.40h CAMPUS VISIT**

**12.15h LUNCH**

**13.00h Invited Lecture - 04**

By  
Professor Bharath Bandi

**13.40h Invited Lecture - 05**

By  
Professor RV Koteswara Rao

**14.20h Special Keynote Lecture**

By  
Professor G Chandra Mohan Reddy

**15.10h HIGH TEA**

**15.40h GROUP PHOTO**

**16.00h Valedictory Function**

**17.00h Closure of Seminar & DEPARTURES**



**Professor Dr. N. Eswara Prasad**

FIIM, FAPAS/FTAS, FIE, FAeSI, FInSIS, FAPAM  
Director (R&D) & Professor, Dept. MME, MGIT, Hy  
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**Dr. Mithun Palit**

Scientist G, DMRL  
solidification, magnetic materials & phase transformation.  
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**Professor SRK Malladi**

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**Professor Sukla Mondol**

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**Dr. Ravi Bollina**

Technical advisor for the metal injection molding company  
Orange Koi, Hyderabad. Advanced composites for thermal  
management



**Professor Rajesh Korla**

Associate Professor in MSME Dept. at IIT Hyderabad.  
Deformation behavior of materials at room temperature and high temperature

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**Professor Koteswara Rao**

Professor in School of Engineering Science & Technology at University of Hyderabad. Nanomechanics and Nanostructured materials, High-entropy alloys, Next generation superalloys, Advanced high strength steels, Advanced welding methods.

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**Professor K. Ravi Sankar**

Professor in MME Dept. at IIT Madras. Temperature Deformation, Creep & Additive Manufacturing

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**Professor G. Chandramohan Reddy**

Principal of MGIT & Professor in Mechanical Dept. Additive Manufacturing, Design & manufacture of aerospace components & Drone technology.

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**Dr. Bharath Bandi**

Assistant professor at the MME Dept. in NIT Warangal. Fusion energy materials, Automotive Steel, Phase Transformation, Dissimilar metal welding

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**For further Details:**

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**Dr. L. Ramakrishna**

Tribological and corrosion behavior of diverse thick coatings & thin films. design & development of lab scale and industry scale technological systems.

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***With Best Compliments from MGIT Management”***