



**MAHATMA GANDHI
INSTITUTE OF TECHNOLOGY**
Kokapet(Village), Gandipet, Hyderabad, Telangana - 500075. www.mgit.ac.in



MOTIVATE
INNOVATE
EMPOWER **24**
YEARS



Two Day Online Workshop

on

Emerging Trends in Non-Destructive Evaluation (NDE)

09th & 10th October, 2021

Organized by

**Department of Metallurgical and Materials Engineering
MAHATMA GANDHI INSTITUTE OF TECHNOLOGY
Hyderabad-500075**

In association with

**Indian Society for Non-Destructive Testing
Hyderabad Chapter**

Advisers

Mr. J. Syamsunder Reddy, Chairman, CBES

Mr. J. Pratap Reddy, Secretary, CBES

Chairman

Dr. K. Jaya Sankar, Principal, MGIT

Convenors

Dr. K. Ramanjaneyulu, Associate Professor and HoD, MME, MGIT

Mr. Adirae Dinesh, Assistant Professor, MME, MGIT

Organizing Committee

Dr. MP Phaniraj, Associate Professor, MME, MGIT

Mr. GVR Murty, Assistant Professor, MME, MGIT

Dr. RVSM Ramakrishna, Assistant Professor, MME, MGIT

Dr. J. Jhansi, Assistant Professor, MME, MGIT

Dr. M. Vijaya Lakshmi, Assistant Professor, MME, MGIT

Dr. PVSL Narayana, Assistant Professor, MME, MGIT

Mr. Bhomik K Deogade, Assistant Professor, MME, MGIT

Dr. S. Santhi, Assistant Professor, MME, MGIT

MGIT

Mahatma Gandhi Institute of Technology (Autonomous), affiliated to Jawaharlal Nehru Technological University (JNTU), Hyderabad, was established by Chaitanya Bharathi Educational Society in 1997 with an objective of imparting value-based education in an invigorating ambience at Gandipet, Hyderabad. MGIT has been accredited by National Board of Accreditation (NBA), New Delhi 3 times (2009, 2014, and 2018) and by NAAC with A Grade.

About the Department

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 workshop

The world has been looking for novel technologies that will create a 'better tomorrow'. The Metallurgical and Mechanical Engineers strive towards manufacturing defect free components. Non-destructive Testing methods have been evolving as the most sought after tools. The National workshop on "Emerging Trends in Non-Destructive Evaluation (NDE)" has been aimed at imparting knowledge on developments in NDE to facilitate the industry, research, and future engineers to perform better in their endeavors. This workshop will have lecture series on Advances in digital X-ray imaging, residual stresses, NDE 4.0, Corrosion Monitoring, and Testing of wind turbines along with live demonstrations on Remotely Operating Vehicles, TFM Technology, Usage of Artificial Intelligence & Robotics in NDE.

Technical Program

LECTURES		
Dr. RJ Pardikar Immediate Past President - ISNT Topic: Past, Present, Future of NDE	Mr. Manoharan Venugopal Principal Technologist & Radiological Safety Officer Visiconsult X-ray Systems & Solutions Topic: Digital X-ray Imaging - current status and future trends	Prof. M. Ashok Professor & Head, Department of Physics NIT - Tiruchirappalli Topic: Corrosion Monitoring using ultrasonic NDE method
Dr. Phani Surya Kiran Scientist - E, DMRL - Hyderabad Topic: Residual Stress - Origin, Measurement Techniques and Applications	Dr. TK Abhilasha Chief Technical Trainer Industrial Inspection Quality Services - Chennai Topic: Application of NDT techniques for wind turbines	Mr. Dharmveer Singh Regional Technical Manager - Middle East Stork, A Flour Company Topic: Industry 4.0 & NDE 4.0

DEMONSTRATION ON ADVANCED NDE EQUIPMENT

AI based Robotic Weld Inspection System using TFM Technology by M/s Dhvani Research & Development Solution Pvt. Ltd. - Chennai	Remotely Operating Vehicles by Planys Technologies Chennai	Certification & Training in NDE by TWI India Pvt. Ltd. Chennai	Transition from conventional PT/MT to Advanced NDT (ET) By TOPAX NDT Solutions LLP. - Mumbai
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Faculty, Researchers, Industry Professionals, and Students can participate

Registration Link: <https://forms.gle/AXYo65Szxm1ChgLL8>

No Registration Fee

Last Date for Registration: **07.10.2021**

E-Certificate will be provided to all the participants, who attend all sessions and submit the feedback forms.

All queries can be posted to adiraedinesh_mme@mgit.ac.in, 9848068028



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INVITATION

Department of Metallurgical and Materials Engineering
MAHATMA GANDHI INSTITUTE OF TECHNOLOGY

and

**Indian Society for Non-Destructive Testing
(Hyderabad Chapter)**

Cordially Invites you to
The Inaugural Function

of

Two Day Online National Workshop

on

**Emerging Trends in Non-Destructive Evaluation
(NDE)**

on

9th, 10th October, 2021

INAUGURAL PROGRAM (ONLINE) 9th October, 2021

- 10:00 AM Welcome Address : **Mr. G. V. R. Murty**
Assistant Professor, MME, MGIT
- 10:05 AM About the Workshop : **Mr. Adirae Dinesh**
Assistant Professor, MME, MGIT
Convenor, NDE - 2021
- 10:10 AM About the Department : **Dr. K. Ramanjaneyulu**
Associate Professor & HoD, MME, MGIT
Convenor, NDE - 2021
- 10:15 AM Address by Principal : **Prof. K. Jaya Sankar**
Principal, MGIT
- 10:20 AM Address by Secretary : **Mr. J. Pratap Reddy**
Secretary, CBES
- 10:25 AM Address by Chief Guest : **Mr. G. V. Siva Rao**
Scientist – G, Technology Director
DSMT, DRDL – Hyderabad
- Vote of Thanks : **Mr. G. V. R. Murty**
Assistant Professor, MME, MGIT.

Technical Program Follows

TECHNICAL PROGRAM

9th October, 2021

10:30 to 11:30 AM

Dr. RJ Pardikar

Immediate Past President - ISNT.

Rtd. GM – BHEL Trichy.

Keynote Address: Past, Present, Future of NDE



11:30 AM to 12:30 PM

Mr. Manoharan Venugopal

Principal Technologist & Radiological Safety Officer

Visiconsult X-ray Systems & Solutions.

- Rtd. Sr. Scientist – GE Global Research – Bangalore.
- Ex. Scientific Officer – IGCAR, Kalpakkam.

Topic: Digital X-ray Imaging - current status and future trends



12:30 to 01:00 PM



Demonstration on AI based Robotic Weld Inspection System using TFM Technology

by

M/s Dhvani Research & Development Solution Pvt. Ltd. – Chennai.

02:00 to 02:30 PM

Prof. M. Ashok

Professor & Head

Department of Physics, NIT – Tiruchirappalli.

Topic: Corrosion Monitoring using ultrasonic NDE method



02:30 to 03:00 PM



Demonstration on Remotely Operating Vehicles

by

Planys Technologies – Chennai.

03:00 to 03:30 PM



Demonstration on Transition from conventional PT/MT to Advanced NDT (ET)

By TOPAX NDT Solutions LLP – Mumbai.

10th October, 2021

10:00 to 11:00 AM

Dr. Phani Surya Kiran

Scientist - E

DMRL – Hyderabad.

Topic: Residual Stress - Origin, Measurement Techniques and Applications



11:00 AM to 12:00 PM

Dr. TK Abhilasha

Chief Technical Trainer
Industrial Inspection Quality Services – Chennai.

- Former Faculty, NIT–Tiruchirappalli.

Topic: Application of NDT techniques for wind turbines



12:00 to 1:00 PM

Mr. Dharmveer Singh

Regional Technical Manager
Middle East.

Stork, A Flour Company.

Topic: Industry 4.0 & NDE 4.0



02:00 to 02:30 PM

Certification & Training in NDE

by

TWI India Pvt. Ltd. – Chennai



02:30 PM

Closing Remarks

02:40 PM

Vote of Thanks

Mr. Adirae Dinesh, Assistant Professor, Department of MME, MGIT – Hyderabad.

Dr. RVSM Ramakrishna, Assistant Professor, Department of MME, MGIT – Hyderabad.