



**INDIAN SOCIETY  
FOR  
NON DESTRUCTIVE TESTING**

# **A TWO DAY'S WORKSHOP ON 2D/3D RADIOLOGICAL IMAGING TECHNOLOGY**

**23<sup>rd</sup> and 24<sup>th</sup> August 2024**

Organized by  
**ISNT Pune Chapter**  
In Association with  
**Program Formulation Management Board  
(PFMB)**

## About PFMB and Workshop

Program Formulation and Management Board (PFMB) was formed by ISNT with the following aims:

- To conceptualize, formulate and organise various non-certification programs.
- To create a platform for constant interaction with ISNT members.
- To meet the requirement of industry, academia and research community.
- To interact with other international NDT societies, Technical societies and to organise joint programs.
- To develop and implement for execution of such programs along with ISNT Chapters or educational institutes.
- To create various topical working groups within PFMB for creating new programs meeting the industry requirements.

PFMB has formulated an Workshop on 2D / 3D Radiological Imaging and Application through ISNT Pune Chapter. The workshop will have a practical demonstration of DR and CR. For CT there will be Video demonstration. The topics covered are as follows

- Introduction to 2D/3D imaging
- Computed Radiography and its Applications
- Digital Detector Arrays and Applications
- 2D X-ray imaging for Aerospace Sector
- 2D X-ray imaging for Manufacturing & service Sector
- 2D Imaging as a service in India
- 2D/3D X-ray imaging of castings/Automotive Sector
- Codes and Standards in 2D/3D X-ray radiography
- 3D X-ray CT for Aerospace Sector
- 3D X-ray Image Quality and Artifacts
- 3D X-ray Imaging for Metrology and Additive Manufacturing

## Who should attend,

Scientists, Engineers, Technical staff working in the field of inspection of aerospace, service industries, manufacturing sector etc. who would like to gain knowledge in the field of 2D/3D X-ray imaging and its applications. The workshop gives an opportunity to interact with the experts faculties in each area selected exclusively by PFMB/ISNT.

## About ISNT Pune Chapter

The ISNT Pune Chapter has been actively supporting ISNT for the last 35 years, covering Pune and its nearby regions. The chapter is dedicated to promoting awareness of NDT Science and Technology to its members and other professionals. They achieve this through education, research, and the exchange of technical information, both within the country and internationally.

The ISNT Pune Chapter regularly organises technical lectures, field trips, awareness training for Engineering students. National Level Seminars/workshops, and NDE qualification to BIS13805 and ICN is conducted by ISNT Pune Chapter.

At present ISNT Pune Chapter has 200+ members. The members comprises of young NDE professionals, manufacturers of NDE equipment, researchers in NDE.

Till date ISNT Pune Chapter has arranged National Seminars NDE 2004, NDE 2014 and NDE 2023.

ISNT Pune Chapter helps NCB for Question Bank Generation, Examiner Workshop and Train the Trainers.

We have been conferred with Best Chapter award in 2014 and 2017.

## Objectives of the Workshop

- To explain the theoretical and practical aspects of 2D and 3D Radiological Imaging Technology
- To know about the current standards for Digital radiography systems
- To understand the digital image and image processing capabilities
- To expose the digital image quality metrics
- To recognise the constraints and capabilities of a CR/DR systems
- To be able to modify the digital image to optimise the defect detection
- To make aware and orient about the current trends in the field of digital radiography
- Exchange of know-how and know-why among professional users of Digital Radiography technique, potential users, researchers, academic, QA personnel, Auditors etc.

## Who are the likely participants and their benefits

- Students and faculty of academic institutions aspiring to learn about the field and make a career there.
- Service providers who need to enhance their facilities to render better services.
- Scientists from R&D institutions who will need to know current trends and future perspectives.
- Welding and Corrosion Inspectors for understanding better inspection capabilities.
- QA and NDE Managers who are needed to acquire knowledge for better management.
- Personnel in engineering, process, aerospace, and automobile industries for various applications.
- Inspection and Regulatory Authorities to keep in pace with the technology.

## Course Coordinator

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## Advisory Committee

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Dr. Deepesh Vimalan  
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Shri. Diwakar Joshi  
Shri. Bhausahab Pangare  
Shri. M. S. Shendkar  
Shri. J. R. Hiremath  
Mrs. Kalpana Umrani

## Registration Details

Registration on the Basis of First Come, First Serve.  
The workshop is limited to a maximum 60 participants.

**There is an early bird Registration offer: ₹ 500 /- discount for those who register until 24<sup>th</sup> of July 2024.**

Last date for Registration without discount 16th August 2024.



Scan and Register

## Registration Fees

ISNT Member	₹ 6500/- + 18% GST
Non - ISNT Member	₹ 7500/- + 18% GST
Students & Faculty of Academic Institutions and Research Scholars	₹ 3000/- + 18% GST

## Bank Details

Account Name : ISNT Pune Chapter  
Account No : 34052910245  
IFCS Code : SBIN0004618  
Branch : SBI Erandwane Pune.

## Venue

# HOTEL KALASAGAR

P-4, Near Nashik Phata, Old Mumbai- Pune Highway,  
Pimpri-Chinchwad, Pimpri Chinchwad,  
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