

# QUALITY 2023

**QUALITY** is a national level *tech event* conducted by MTech Non-Destructive Testing (NDT) students of the Department of Physics, held every year to entice young minds to explore the non-destructive way of testing. The Department is conducting this in collaboration with the renowned experts from industries and academia.

**Non-Destructive Testing (NDT):** Non-Destructive Testing is a branch of engineering, primarily concerned with detecting and evaluating the flaws of a specimen. It contains myriad of analysis techniques, both conventional and advanced, which itself produces no vicious effects on the specimen under test. NDT thus makes no compromise on the structural integrity of a component and ensures its functional reliability.

**Quality'23** would be a single day event to be held on 6<sup>th</sup> of March 2023. The forenoon session would cast light on the most modern advances in Non-Destructive Testing, followed by Google Quiz, Colloquium, and a hands-on demonstration of various NDT techniques by the MTech (NDT) students of NIT Trichy. In short it would be a technical feast for NDT enthusiasts.

## QUALITY'23 HIGHLIGHTS

**Date:** March 6, 2023

### Chief Guest

Dr T. Gurunathan, GM, Quality, BHEL, TRICHY

### Lecture-1

Mr. S. Gunasekar SM, WRI, BHEL, TRICHY

### Lecture -2

Mr. Arul Prabhu SDGM, NDTL, BHEL, TRICHY

### Google Quiz

*Get ready for a fast-paced challenge! You'll be allowed to use Google to find the answers to a set of questions. You've got a limited amount of time to search and submit your answers. The objective is to answer as many questions correctly as you can within the time frame. The winner will be the person with the most correct answers. This quiz will test not only your general knowledge and internet research skills, but also your speed and ability to think on your feet. Are you up for the challenge?*

Mode of quiz: online.

\*\*\*please bring your smart phones along with you \*\*\*

## Colloquium

People can use the Power Point Presentation Competition as a stage to demonstrate their abilities to design engaging and educational presentations. Participants will have the chance to share their thoughts and findings on a chosen topic to a judge's panel. In addition to encouraging critical thinking and good communication, the competition aims to give participants a stage on which to demonstrate their presentation abilities and inventiveness.

A presentation with a maximum run time of 12 minutes will be required of the participants.

The presentations' visual appeal, content value, organisation, and overall delivery will all be taken into consideration during evaluation. Based on their level of experience, everyone who wants to enter the competition is welcome to do so. A monetary award and other prizes will be given to the competition's winner.

## Debate Competition

With the aim of fostering informed, respectful discourse on difficult and contentious topics, debates often adhere to a predetermined format, such as opening statements, rebuttals, and closing arguments. Participants are judged on their ability to persuade the audience or judges of their point of view as well as their communication skills, critical thinking capabilities, research prowess, and general persuasiveness.

## Demonstration of NDT Techniques

Demonstration is done by NDT (MTech) students and Mr. Peter Rodrigues (Deputy Engineer/NDTL/BHEL/TRICHY)

The demonstration will be held for the following techniques:

- Fluorescent LPT.
- Magnetic Particle Testing.
- Ultrasonic Testing.

## Buzzer Game

*Test your nerves with this challenging game!*

A fun activity game which will test your eye and hand coordination. The game involves a metal loop connected to the wire and buzzer. Use steady hands to guide the metal ring along the loop without making it buzz.

## Who Should Attend?

Students of Engineering (UG and PG)/M.Sc. (Physics), Inspection personnel, Operation and maintenance personnel, managers of engineering establishments.

Industries: Manufacturing, Power generation, Aeronautics, Petrochemical, Civil Engineering, Boiler and Pressure vessel manufacturers, fabrication, and R&D organizations.

## VENUE:

**EEE Auditorium and BARN Hall.**

## Registration\*

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Registration can be done online:

[https://docs.google.com/forms/d/e/1FAIpQLSdlJF4RUTKqgg1vHN\\_AYE45r\\_3E118i9dXQULO472IZRI-c-Q/viewform?vc=0&c=0&w=1&flr=0&fbzx=7424690647461406364](https://docs.google.com/forms/d/e/1FAIpQLSdlJF4RUTKqgg1vHN_AYE45r_3E118i9dXQULO472IZRI-c-Q/viewform?vc=0&c=0&w=1&flr=0&fbzx=7424690647461406364)

**Registration Fee:** Students- Rs.150/-\*\*, Industrial Delegates: Rs 250/-\*\*

Last date for online registration is 5<sup>th</sup> of March 2023 5:00 PM.

- Scan to Register



Spot registration: 09:00 AM-10:00 AM on March 6, 2023.

For Online registrants, Registration fee will be collected at registration desk on March 6, 2023.

\*Priority will be on first come first serve basis.

\*\*Registration fee includes lunch, certificate, and refreshments.

### Faculty Coordinator:

Dr Somnath Mukhopadhyay – Assistant Professor  
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### Student Coordinator:

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QUALITY-23  
An endeavour by team NDT

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# Schedule of Quality'23

- 10:00 a.m. to 10:30 a.m. : Inauguration**
- 10:30 a.m. to 10:40 a.m. : Refreshment Break**
- 10:40 a.m. to 11:40 a.m. : Guest Lecture by  
Mr. S. Gunasekar**
- 11:45 a.m. to 12:50 p.m. : Guest Lecture by  
Mr. Arul Prabhu**
- 01:00 p.m. to 02:00 p.m. : Lunch break**
- 02:00 p.m. to 03:00 p.m. : Demonstration of  
NDT Techniques**
- 03:00 p.m. to 04:00 p.m. : Colloquium  
& Buzzer Game**
- 04:00 p.m. to 04:20 p.m. : Google Quiz  
& Buzzer Game**
- 04:20 p.m. to 04:30 p.m. : Refreshment Break**
- 04:30 p.m. to 05:00 p.m. : Closing Ceremony**



# QUALITY

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## TECHNICAL SYMPOSIUM ON 'NDT'

### About QUALITY '23

QUALITY is a Technical event organized by the M.Tech (NDT) students to create awareness about the importance and advancements in the field of Non Destructive Evaluation (NDE). The programme has lucid lectures delivered by eminent persons in the field of NDE. The Programme also features demonstrations of Various Non Destructive Testing (NDT) methods.

### Who Should Attend?

Students of Engineering and Science(UG ,PG and Phd), Inspection personnel, Operation and maintenance personnel

Registration Fee:

Students- Rs.150/-,

Industrial Delegates: Rs 250/-

(Pay on desk only)

Head, Department of Physics:

Dr.R. Justin Joseyphus

Faculty coordinator:

Dr. Somnath Mukhopadhyay

Student Coordinator:

Suggu Hemant (8007827659)

Scan me to register:



Date: March 6, 2023

VENUE: EEE auditorium,  
BARN Hall @ NIT Tiruchirappalli

#### LECTURE 1

Mr. S. Gunasekar SM, WRI,  
BHEL, TRICHY

#### LECTURE 2

Mr. Arul Prabhu SDGM, NDTL,  
BHEL, TRICHY

#### OTHER EVENTS

Google Quiz, Colloquium  
Demonstration of NDT Techniques  
Buzzer Game  
Debate Competition

#### For More Information:

Email : qualitynitt2023@gmail.com

Instagram: @qualitynitt2023



SCAN ME