



Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra
And Affiliated to University of Mumbai

Department of Mechanical Engineering

Topic Name:	Non-Destructive Testing (DT) Method Bridge
Name of the Guest Speaker:	Faculty, Department of Mechanical Engineering
Designation:	Assistant Professor
Organization/Institution:	Viva Institute of Technology
Date:	January 3rd to January 7th, 2022

Programme Summary/Details:

The Department of Mechanical Engineering at VIVA Institute of Technology organized a specialized bridge course on Non-Destructive Testing (DT) Method from January 3rd to January 7th, 2022, exclusively designed for Bachelor of Engineering (BE) Mechanical Engineering students.

The course focused on equipping mechanical engineering students with essential skills in flaw detection using non-destructive testing techniques. Students were introduced to various methods such as visual inspection, liquid penetrant testing, magnetic particle testing, ultrasonic testing, and radiographic testing, with an emphasis on their applications in mechanical engineering.

Hands-on training formed a significant part of the course, enabling students to gain practical experience in conducting non-destructive testing. They learned how to prepare test specimens, apply testing techniques, and accurately interpret test results. Safety protocols and ethical considerations specific to mechanical engineering applications were highlighted.

The course objectives centered around developing students' understanding of non-destructive testing principles, selecting appropriate techniques for flaw detection in mechanical components, interpreting results effectively, adhering to safety procedures, and documenting findings professionally. Upon completion of the course, mechanical engineering students attained a solid foundation in non-destructive testing methods and their applications. They acquired the skills necessary to choose the right technique for flaw detection, accurately interpret test results, and ensure safety during testing procedures in mechanical engineering contexts. The Non-Destructive Testing (DT) Method bridge course tailored specifically for BE Mechanical Engineering students provided valuable insights and practical skills, empowering them to excel in their future engineering careers. The knowledge gained will enable these students to contribute effectively to industries where non-destructive testing is crucial for ensuring the integrity and reliability of mechanical components.