



AE235 JAN 3:0

Non-Destructive Testing & Evaluation (NDT & E)

Instructor

M R BHAT

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Teaching Assistant

Email:

Department: AEROSPACE ENGINEERING

Course Time:

Lecture venue:

Detailed Course Page:

Announcements

Brief description of the course

Students with any engineering back ground or MSc in Physics, Maths can take the course.

Prerequisites

None

Syllabus

Introduction, Basic Principles, Applications, Testing Procedures of different NDT methods such as Ultrasonics, Radiography, Thermography, Electro-magnetic methods and other conventional NDT methods & Recent Advnaces in these areas.

Course outcomes

Students will learn about different types of defects and damage in Engineering materials and structures, effect of those on the mechanical behaviour of the materials, how to evaluate the integrity of structural components. Choice of right techniques for different applications. Evaluation of safety & Reliabilty of metallic as well as composite structural components.

Grading policy

25% Assignments # 25% mid-term exam # 50% terminal exam

Assignments

Resources