

MATERIALS DESTRUCTIVE TESTS LABORATORY

Laboratory Information

Lab Name: Materials Destructive Tests Laboratory
Room No.: 011- Colleges of Engineering and Technology
Capacity: 25 students

In Materials Destructive Tests Laboratory, tests are carried out to the specimen's failure, in order to understand a specimen's structural performance or material behavior under different loads. These tests are generally much easier to carry out, yield more information, and are easier to interpret than nondestructive testing. Destructive testing is most suitable, and economic, for objects which will be mass produced, as the cost of destroying a small number of specimens is negligible. It is usually not economic to do destructive testing where only one or very few items are to be produced (for example, in the case of a building).

Major Equipment

- Universal testing machines.
- Torsion testing machine.
- Impact testing machine.
- Hardness testing machine.
- Heat treatment furnace.
- Alpha Durometer

Laboratory Serves the following courses:

Course Code	Course Title	Semester
ME 241	Experimental Methods	4 th
ME 274	Material Science	3 rd
ME276	Stress Analysis	4 th



Figure 1.35 Materials Destructive Testing Laboratory



Figure 1.36 Alpha Durometer



Figure 1.37 Brooks Impact Test