Training

The center offers courses in the field of NDT to the Hashemite University students at both the undergraduate and graduate levels. The courses offered by the center are accompanied with practical sessions where students get hands-on experience in the different NDT techniques.

In addition to the academic courses, the center also offers specialized training courses for qualifying NDT personnel in the different NDT methods.

Research & Development

Being a part of an academic institution, research is one of the primary objectives of our center. Through its specialized instrumentation and equipment, the center provides the necessary infrastructure for HU researchers and students to conduct both scientific and applied research in the field of NDT.

As a part of our commitment to serve and support the Jordanian industrial sector, applied research oriented towards solving practical problems encountered by industrial companies is of prime importance to us. Our professional staff, as well as several other researchers and faculty members from diverse scientific disciplines who work in close association with the center, give us the capability to offer innovative R&D solutions. Furthermore, our R&D efforts are aimed at introducing new services and spreading the most recent knowledge and state-of-the-art technology to the local industrial companies in order to further their competitiveness.

Administration & Staff

At the Hashemite University NDT Center we take pride in the combination of both scientific-academic background and practical hands-on expertise of our team. The center is directed by one of HU faculty members and our staff includes several engineers and experienced technicians. We work continuously to further evolve our services not only by acquiring the latest technology in the field of NDT, but also by the continuous training of our staff members in order to obtain internationally recognized certification. In addition to the experience and academic qualification of our staff members, they also have ASNT certification in several NDT methods.
Overview

Non-destructive Testing (NDT) is a wide group of analysis techniques that are used to evaluate the properties of a material, component or system without causing damage to it. The terms Non-destructive Examination (NDE), Non-destructive Inspection (NDI), and Non-destructive Evaluation (NDE) are also commonly used to describe this technology. NDT plays a critical role in assuring that components and systems perform their function in a reliable and cost effective manner. Because NDT does not permanently alter the article being inspected, it is a highly-valuable technique that can save both time and money in product evaluation, troubleshooting, and research. Nowadays, NDT is a commonly-used tool in a wide variety of applications which include; mechanical engineering, aerospace engineering, electrical engineering, civil engineering, systems engineering, medicine, forensics and art.

The Hashemite University paid an early attention to the need for a specialized center that offers high-quality education and services in the field of NDT in Jordan. That prompted the establishment of the Hashemite University NDT Center in the year 2005.

The main goal of the Hashemite University NDT Center is to support and enhance the capabilities of the industrial sector in Jordan, as well as the region, by providing education and specialized training, consulting and on-site industrial services, in addition to R&D in the field of NDT.

Our team of highly qualified professional staff and the wide range of modern equipment available at our center give us the capability to meet most of the needs of the Jordanian industrial sector in the field of NDT whether it is personnel training, consulting, on-site inspection, or R&D. Also, being a trusted body working under semi-official umbrella, we offer Third Party Inspection (TPI) services.

Vision

To become one of the leading non-destructive testing centers in the middle-east region offering a world-class services, training, research and development.

Mission

Our mission is to:

- Offer top quality training courses aimed at equipping students with the knowledge and expertise necessary for a successful career in the field of NDT.
- Provide high quality NDT services using the latest technologies to the Jordanian industrial sector.
- Provide researchers and students from the Hashemite University as well as other Jordanian universities with the necessary instrumentation and equipment required to conduct research in the field of NDT.

Services

The center is proud to provide a wide range of NDT services that are performed on-site by our ASNT certified staff in accordance with the relevant International Codes and Standards.

In addition, we also offer full afterwards analysis for the causes of failure and recommendations for corrective actions.

Our main on-site NDT services include:

- Visual Testing
- Liquid Penetrant Testing
- Magnetic Particles Testing
- Ultrasonic Testing
- Radiographic Testing (x-ray, Gamma-ray)
- Eddy Current Testing
- Hardness Testing
- Thickness Gauging
- Crack-depth Gauging

Furthermore, the center also offers other testing services which include:

Material Testing
- Metallurgical Testing
- Mechanical Properties Testing
- Material Elemental Analysis

Civil Structures Inspection
- Cable-tension Testing
- Pavement Testing (skid resistance, static and dynamic deflection, density and moisture)
- Concrete Testing (strength, pull-off strength, reinforcement bars detection)

Calibration
- Compression Load-cells Calibration
- DC Measurement Units Calibration