



History

The Faculty of Science at Helwan University is characterized by its unique Applied Chemistry division at Chemistry Department. It is characterized by teaching chemistry and technology of local industries to produce graduates able to meet the requirements of the labor market. Among those industries are paper and inks. Thus, paper and printing laboratory was established in 1992 by Chemistry Department. This is consistent with the mission of Helwan University as being a technology-oriented university. The laboratory team tries to associate the research with the industry and ensure to publish their research work in international scientific periodicals.

Lab. Accreditation

The lab is accredited by the Egyptian Accreditation Council (EGAC), which is recognized by Presidential Decree number 312/96 as the sole national body in Egypt for the assessment and accreditation of conformity assessment bodies, based on the decision of the Independent Committee for the lab assessment and accreditation No. 130/2012 dated 05/12/2012. The paper and printing laboratory participates in Proficiency testing with Smithers Pira Institute (UK) and the national Institute for standards NIS (Egypt).

Laboratory Quality Policy

The management system of the Paper and Printing laboratory commits that all tests and measurements asked by the customers to be handled with high level of performance and distinguished accuracy and quality according to the international standard ISO /IEC 17025:2005.

Quality Policy Goals

1. Accuracy of results, measurements and data.
2. Quality system to be applied in all stages of testing and measurements to its verification.
3. High level of security for customer data, measurements and testing.

Recipients

The laboratory serves the following fields and sectors:

Industry sector (Paper and board, plastics, textile, printing inks , resins and printing sectors)

Research sector (institutes, research centers and universities that present scientific and technological researches in the field of paper , board , printing and printing inks).



The laboratory offers training programs related to the previous industries as well as preparation of qualified undergraduate and postgraduate students to be able to work in these industry fields.

Available Services:

The paper and printing laboratory presents to its clients the following services:

(A) Printing field:

- Preparation of offset and letter press printed samples and determination of amount of ink transferred.
- Assessment of print quality by measuring optical density.

(B) Paper Characterization field:

Physical measurements

- Porosity and Smoothness (Bendtsen method) - Paper Sizing (Cobb method)- grammage (g/m^2).

Optical measurements

- Whiteness - Opacity – Brightness – colour – light absorption – light scattering.

Mechanical measurements

- Tensile strength - Tensile index - Stretch - Burst strength – Burst index.

(C) Training courses:

The laboratory organizes specialized training courses on devices of paper characterization and print preparation and characterization.

Contact us:

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X-rite densitometer



IGT printability tester



Digital balance and calibrated weight set



**Roughness and air permeance
Bendsen tester**



Brightness and Color meter

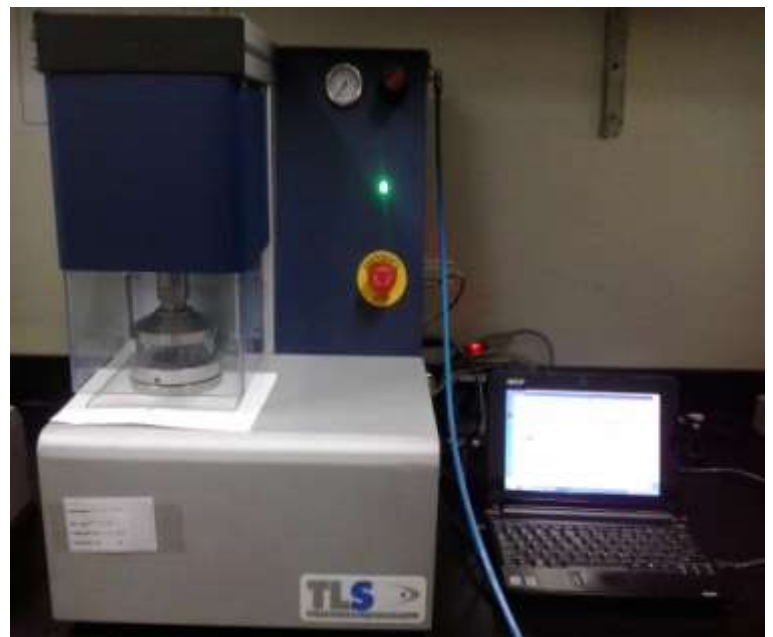


AUTOMATIC CLAMP

Cobb sizing tester



Tensile strength tester



Burst tester



Climatic room equipment



Some auxiliary instruments