



Yarmouk University

Hijawi Faculty for  
Engineering Technology

# Sustainable Construction Materials Lab

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## Lab Overview

The Sustainable Construction Materials research lab is in the Civil Engineering Department and is equipped with specialized devices and equipment for testing cement and concrete. The lab aims to support research and development in the field of sustainable building materials. It contains equipment for milling raw materials for concrete and other additives to prepare cement mixtures. Sieving devices are used to ensure the fineness of the prepared materials and to achieve the optimal composition of concrete mixtures. The lab also includes furnaces for conducting burning processes of raw materials, which help study the effect of different temperatures on the properties of concrete mixtures. Additionally, the lab has a compression machine used to study the behavior of concrete under compressive loads. The lab also possesses standard molds for casting and preparing cement and concrete samples.

## Devices Available in the Lab



Compression Machine



Muffle furnace (1200 C)



Drying Furnace (200 C)



Concrete Mixer



**Ball Mill**



**Mortar Mixer**



**Muffle Furnace (1200 C)**



**Mortar and Concrete Molds**