

Civil Engineering Department contains seven major laboratories in various fields of specialization in civil engineering. These laboratories are equipped with the modern devices that contribute in improving the efficiency and quality of the educational process in the course levels as well as the graduation projects, which is reflected in the efficiency and quality of the program outputs. In addition, these laboratories are supporting the scientific research process for students and staff members in the department.



Surveying Lab:

The surveying lab is one of the laboratories in the Civil Engineering Department. The lab includes the ground survey sections and instruments. The main section is devoted to plane surveying and its instruments (tape, compass, level, theodolite, total station). The lab is also equipped with the software application of remote sensing, photogrammetry, and geographic information systems using computer. The lab serves the core and elective courses of the programs in the Civil Engineering Department. It also serves many of the department's graduation projects.

Soil Mechanics Lab:

The Soil Mechanics Laboratory in the Department of Civil Engineering at the College of Engineering - Jouf University includes the newest soil equipments that help civil engineering students in the scientific teaching process and applications of laboratory and field tests on the soil. In addition to contributing to scientific research in the field of soil mechanics and foundation engineering.

Construction Materials Lab:

The construction materials laboratory is concerned with studying and determining the physical, chemical and engineering properties of metals and materials used in the field of construction engineering. Instruments for testing the properties and engineering behavior of metals are an important part, as universal tensile devices and compression and bending devices are available. It also includes the devices for experimenting the steel's resistance to pitting and corrosion, for the importance of these in the construction fields .

Concrete Lab:

The concrete laboratory is concerned with studying and determining the properties of concrete materials. The lab contains equipment and devices for conducting experiments on the components of the concrete: cement, aggregate, and wet and dry concrete. It also includes the equipment and devices for

measuring stress and strain generated by the models of concrete elements and textures, and the rebar of these elements. The lab serves the educational purposes for the students in teaching the practical part of the Properties and testing of concrete course, and construction materials course and conducting the lab experiments of the graduation project.

Hydraulics and Fluid Mechanics Lab:

The Hydraulics and Fluid Mechanics Lab aims to study the properties and water flow within water networks and sewage channels, which are considered one of the most important components of the infrastructure of any civilized city. In Hydraulics and Fluid Mechanics Lab, there is a set of devices through which the student is given a complete concept to understand the different methods of measuring flow rates, water capacity and velocity in closed pipes and open channels. In addition, the student will gain experience to understand properties of fluids such as viscosity, surface tension, and other properties of a fluid. In addition, the lab contains some devices concerned with representing hydrological phenomena, such as measuring rain and water seepage through the soil.

Highway engineering lab:

The highway engineering lab at College of Engineering, Jouf University aims to conduct quality control tests for different paving materials that used in pavement construction, in addition to the design of asphalt mixtures. The lab consists of equipment that can serve many tests related to highway engineering course and student graduated project and scientific research of staff members.

Environmental Engineering Lab:

The Environment Lab at the College of Engineering, Jouf University contains the latest devices that contribute to introducing students how to evaluate water and wastewater quality standards according to internationally standardized methods. The lab is also concerned with introducing students to the newly used methods for treating salt water and wastewater in order to provide safe and clean drinking water.
