

The hydraulics laboratory is considered one of the oldest laboratories of the College of Engineering and is affiliated with the Department of Dams and Water Resources Engineering. The laboratory has an area of (1040 m<sup>2</sup>). The laboratory includes rooms for the staff responsible for the laboratory (the laboratory supervisor, the technical officer, and the technical staff), in addition to the laboratory's service facilities. Experiments are conducted in the hydraulics laboratory. For students of preliminary studies (second stage), the laboratory contains special equipment for conducting fluid experiments, which depend on the direct application of various theories, including (finding the centre of pressure - classification of flow in pipes, Bernoulli's equation, Venturi meter, impact jet, friction coefficient of pipes, frictional losses in Accessories, flow through orifice, weir, hydraulic jump, vortex flow, fluid viscosity). the laboratory also contains special devices and equipment for the research of graduate students and lecturers. The laboratory includes many laboratory channels with glass sides and different dimensions, as well as concrete channels a simulator Rainfall and a Pitot tube to measure velocity inside open channels, in addition to some hydraulic models