

Microbiology and Diagnostic Microbiology Teaching Laboratory (319):

This laboratory is located on the second floor of the department building and contains a large number of microscopes, incubators, autoclaves, Bunsen burners, analytical balances, and workspace for the required experiments. The lab has a capacity of 25 students per practical session.

This laboratory includes the practical teaching of the following subjects:

1-General Microbiology: In this course, students learn about microorganisms in terms of structure, growth, genetics, disease characteristics, laboratory diagnosis, and the microbial factors responsible for major diseases. Students learn how to collect and prepare environmental and clinical samples (such as water, air, soil, and feces) for microscopic examination. This includes techniques for sampling, storage, and handling samples in a way that preserves the integrity of microorganisms. Students also learn how to use microscopes to observe and identify microorganisms. This includes using different staining techniques, such as Gram staining to classify bacteria and determine their shape, and acid-fast staining.

2-Diagnostic Microbiology: In this course, students also learn the main laboratory tests for diagnosing bacteria and testing antibiotic sensitivity. The laboratory provides extensive training on managing a microbiology lab, including isolating microorganisms from samples using different culture media, such as blood agar, and training on how to collect samples from patients and methods for isolating bacteria.



