**المهارات المخبارية**

**Mic 240 Course description**

1. Laboratory safety and the precautions to be taken in the microbiological lab
2. Instruments and special tools used in microbiological lab
3. Sterilization ( Physical and chemical means of sterilization)
4. Microscopical examination and different types of microscopes
5. Media used for isolation of different types of bacteria and Fungi and the methods of sterilization of each type.
6. Isolation of bacteria and Fungi from different sources and the methods used for obtaining pure culture, Total colony count (different methods), characteristic culture characters
7. Staining

* Simple stains
* Differential stains
* Special stains

1. Bacterial enzymes and biochemical identification of bacteria(catalase, oxidase, gelatin liquefaction, TSI, Sugar fermentation, Citrate utilization test, IMVC test ……..etc), Demonstration of API-20
2. Factors affecting bacterial growth (Physical and Chemical )
3. Introductions to medical bacteriology