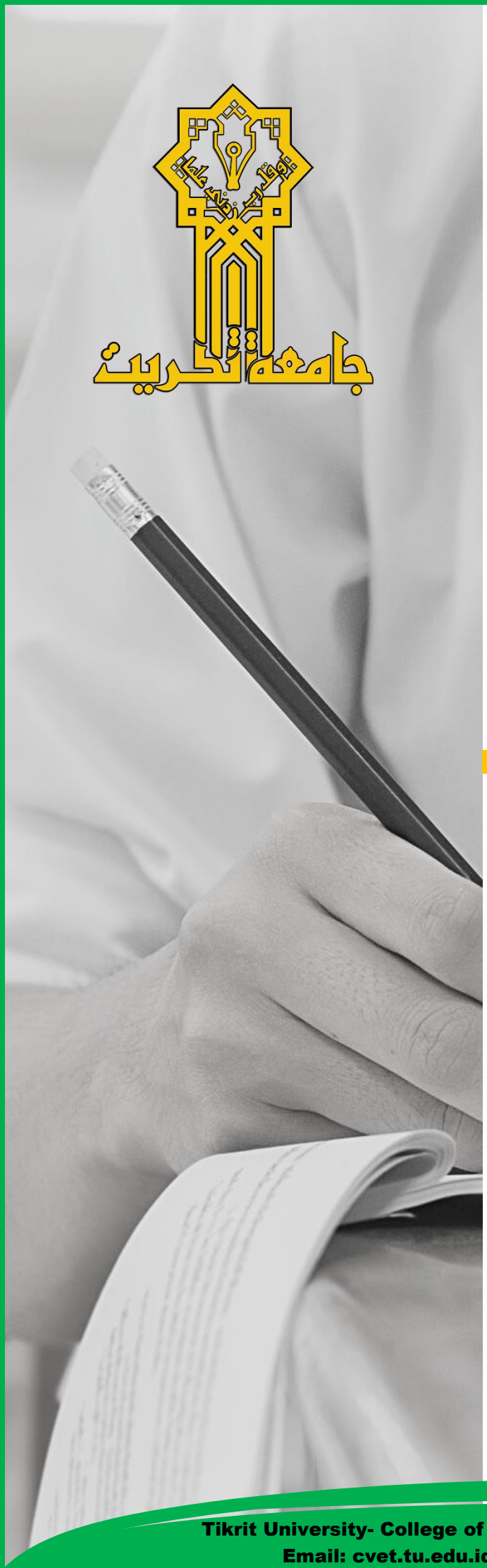

Tikrit University
College of Veterinary Medicine

Lect.1: Microbiology

Subject name:Microscope parts

Subject year:Third-year

Lecturer name:

Assist.Lecturer. Hanen omar

Academic Email:

Hanenomar@tu.edu.iq

SCAN ME

Lecturers link

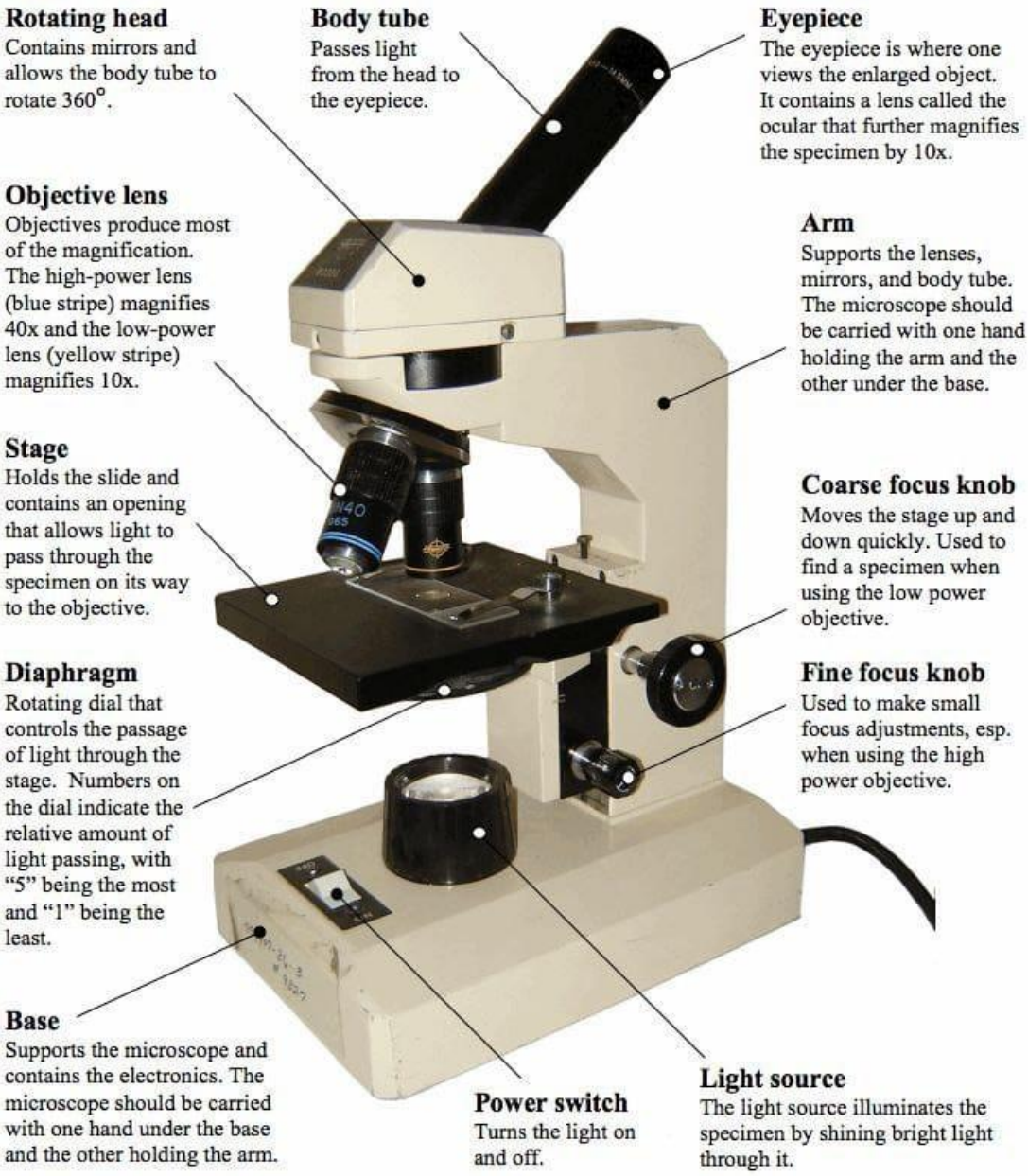

Figure 5 The compound light microscope with descriptions of its parts

Microscope

Microscope: Micro =small , scope =view

Bright Field Microscope:-

1- Commonly used in bacteriology laboratory.
2- It depends on light.
3- It consider as compound microscope, why ?

Bright Field Microscope components

1- Base:- The bottom support of the microscope.

2- Arm :-It helps in holding the microscope.

3- Light source:- A light source mounted under the stage.

4- Body tube :- It hold the projector lenses that direct the light toward the ocular lenses.

5- Nosepiece :- Hold the objectives lenses. (movable disk).

6- Coarse adjustment :-Used to obtain primary explaining specimen.

7- Fine adjustment :- Used to obtain final and fine explaining specimen.

8- Stage:- The flat plate where the slides are placed for observation.

9- Stage Clips:- Clips on the stage used to hold the slide in place.

Condenser :- Focuses the light through the specimen. **- 10**

11- Iris diaphragm :-Vary the amount of light passing through the stage opening.

12-Condenser adjustment knob :- Used to move the condenser up and down.

13- Objective lenses :- primary magnification. (4 x, 10 x, 40 x, 100 x) .

Ocular lenses : final magnification (Eye Pieces)x 10. – **14**

Other types of the microscopes
Dark field microscope. - 1
2- Phase- contrast microscope.
Fluorescent microscope - 3
4- Electron microscope
5- Scanning electron microscope
Type