

# MCBG 2036 - Self Study

## Basic Microscopy Notes

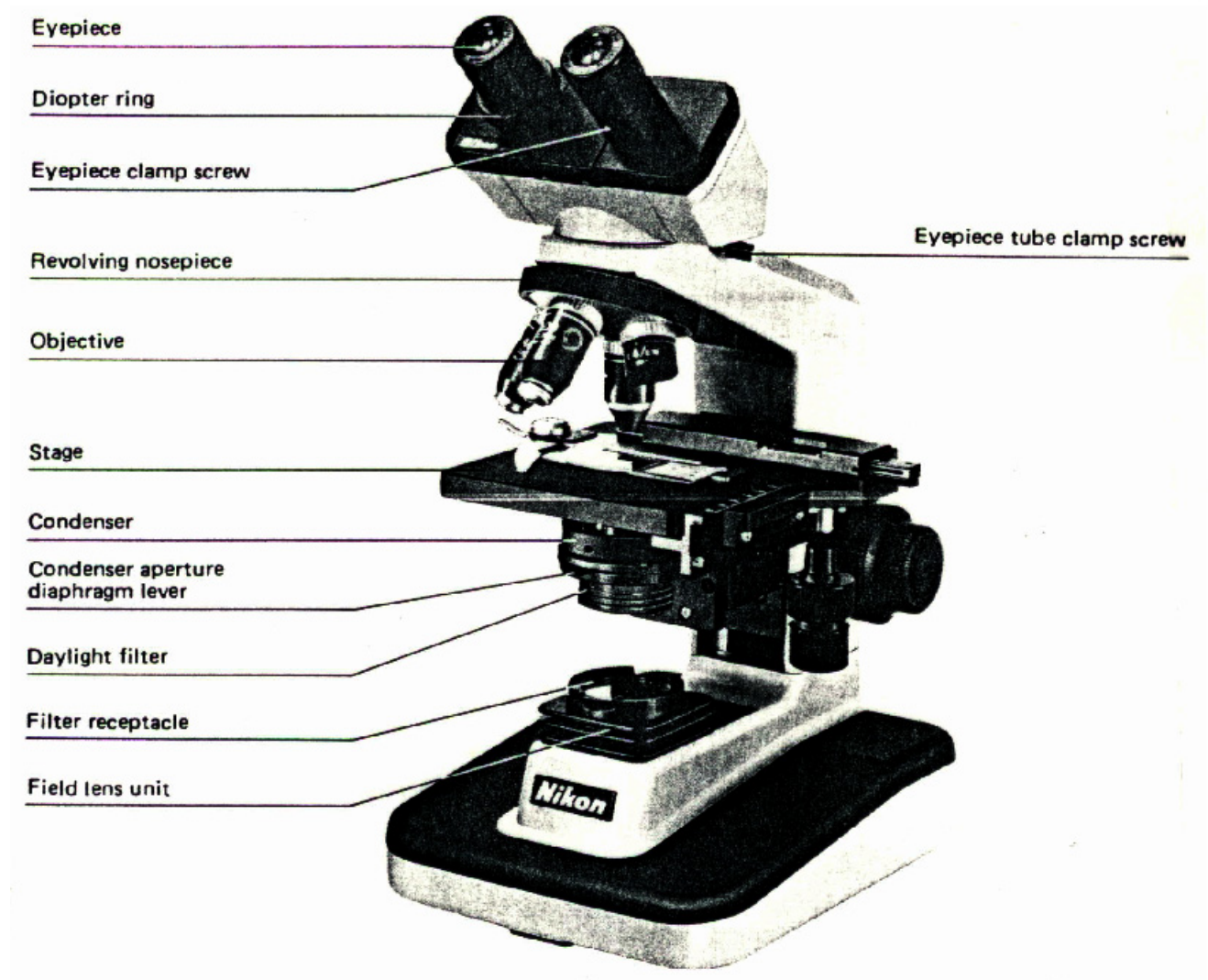
(This document is a formal part of the course and is examinable)

(Prof. Gustav Bouwer)

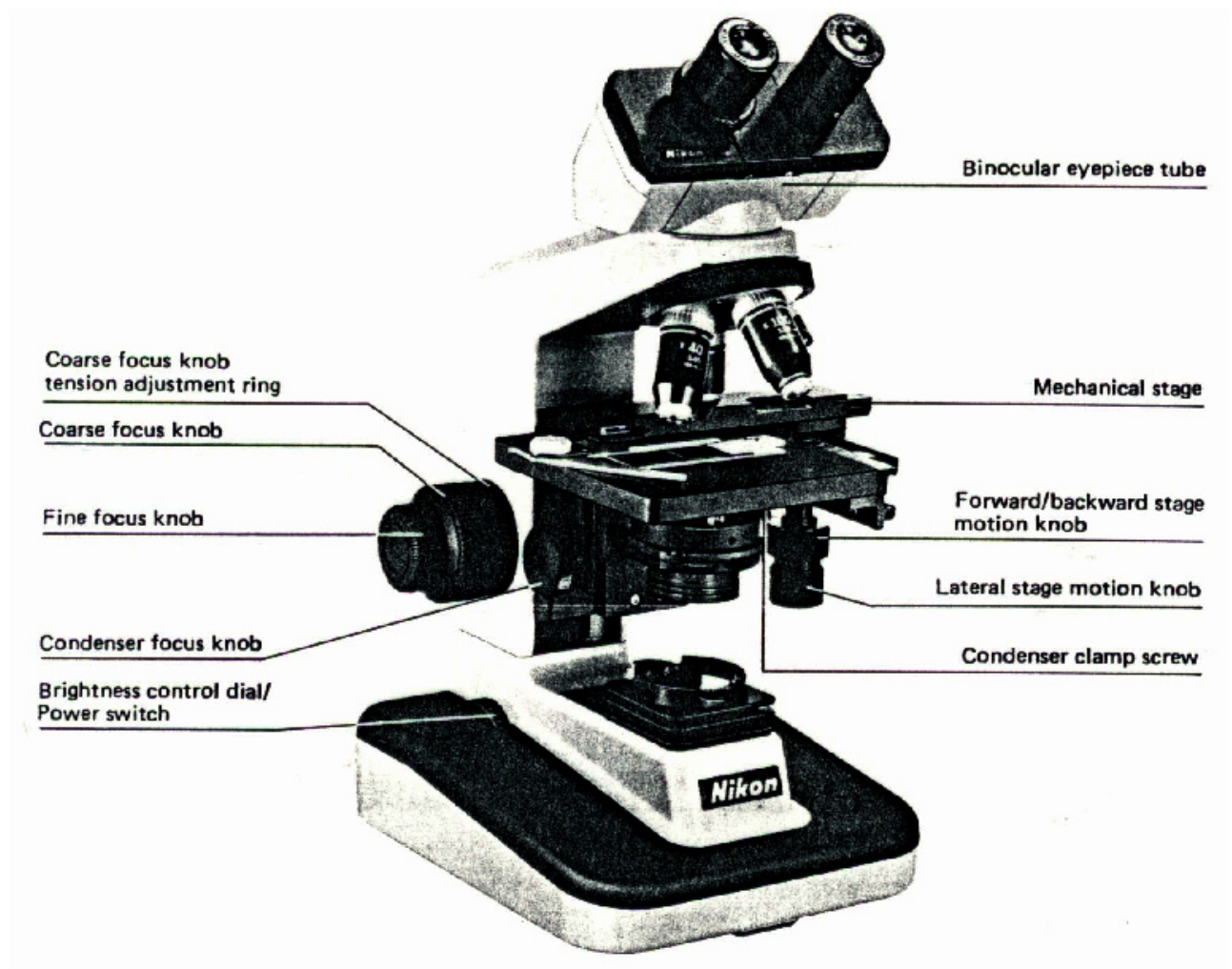
### **Cleaning and storage of microscope after use:**

1. Upon completion of work, switch the lamp off with the switch on the microscope (**WARNING**: On most microscopes you need to slide the brightness control lever or turn the brightness control dial to the zero or off position).
2. Switch the electrical outlet off and unplug the electrical wire.
3. After removing the microscope slide and completely lowering the stage, clean all exposed lenses with dry, clean lens paper. (**WARNING**: Always wipe the immersion oil off the oil-immersion objective as soon as possible after use). If required, clean the stage and remove any spilt oil.
4. **Ensure that:** (1) the lowest power objective is in position, (2) the stage is completely lowered, (3) the mechanical stage is centred, and (4) the microscope slide has been removed.
5. Wrap the electrical wire loosely around the microscope body and replace the plastic cover.
6. If you carry the microscope: carry it with both hands by the microscope body and keep it upright (the eyepieces might fall out if the microscope is inverted or tilted).

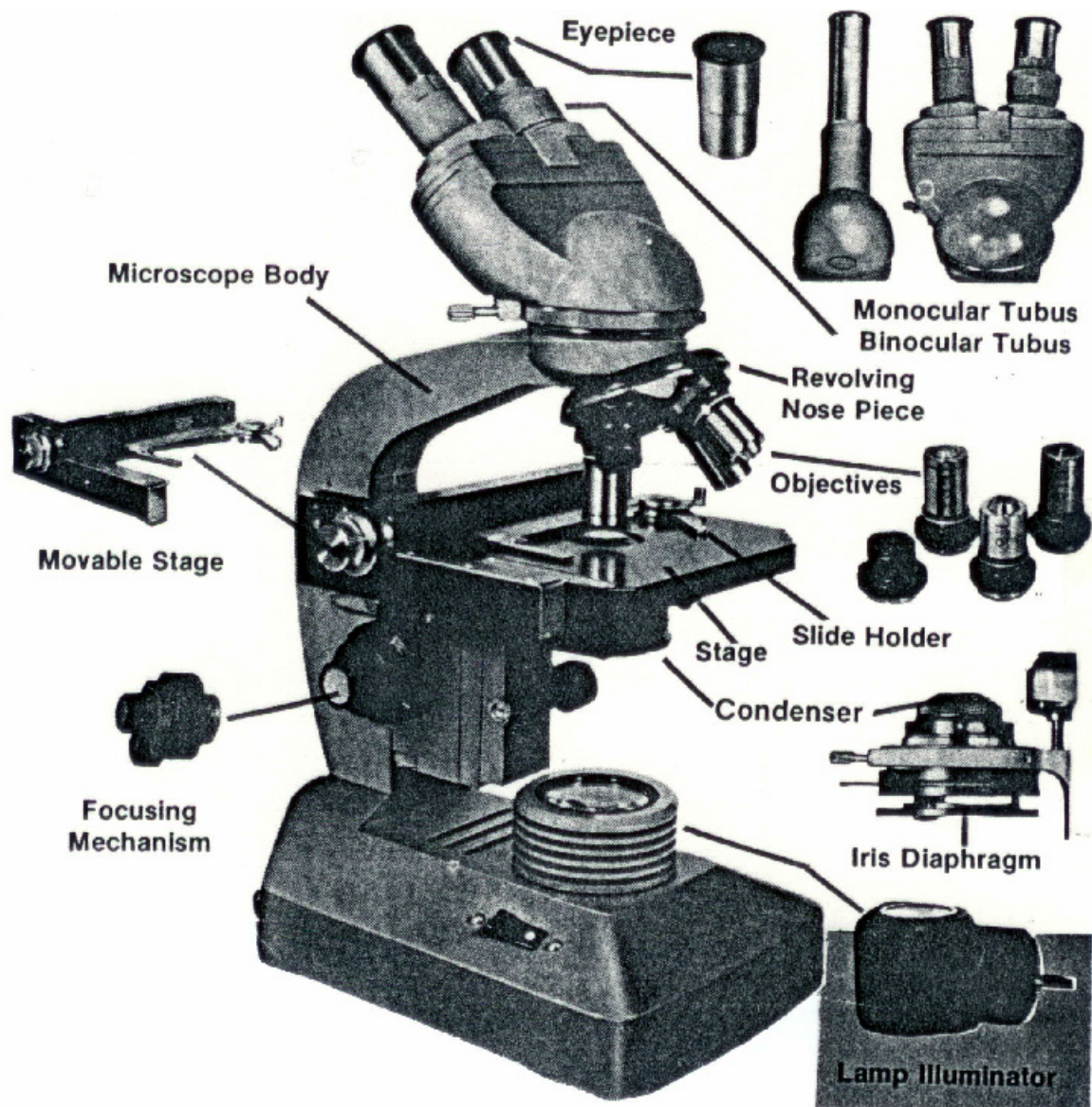
## Components of the microscope



**Figure 1.** Oblique view of the right side of a compound light microscope (Nikon Alphaphot).



**Figure 2.** Oblique view of the left side of a compound light microscope (Nikon Alphaphot).



**Figure 3.** Oblique view of left side of a generic compound light microscope.