

# ANAT 806 : Fundamentals of Microscopy and Imaging

The course consist of lectures, laboratory exercises, demonstrations and discussions that will enable students to obtain and interpret microscope images of high quality, to perform quantitative optical measurements and to produce video and digital records for documentation and analysis. Principles of image formation and microscope design will be discussed, alongside clarification and types of Light microscopy. Types of cameras, analog and digital image processing and analysis, as well as an introduction to fluorescence microscopy and application of optical methods to live cells will be explored.

## **Core Course**