

# PHA5384 : Special Project in Pharmaceutical Sciences

This course provides the student the opportunity to experience and develop practical skills involved in identification, separation and quantitative determination of drugs and novel molecules of pharmaceutical interest. The course involves the preparation of reagents, buffers and mobile phase which requires determination of pH, use of analytical balance, ultrasound degasification, vacuum ultra-filtration as well as handling, mounting, assembling, columns, guard columns, fitting tubes and all the accessories involved in the high-performance liquid chromatography technique. The student will be trained to follow the 'good laboratory practice' (GMP), developing good analytical laboratory skills. Additionally, the student will be familiarized with the use of the appropriate software to set up and control the experiments as well as understand and be able to draw conclusions about the data collected and utilize that as a feedback to improve and optimize the method. Besides the practical aspect, the student will familiarize with the basic principles and the rationale underlying the research project which is on coffee and health.

**Credits** 3.0

**Prerequisites**

None

**Corequisites**

None