**BLT 1102: Instrumentation Principles and Techniques 4 CU**

* Chemical, Physical and mathematical concepts & principles relevant to instrumentation will be discussed.
* Introduction to instrumentation, Chromatography/ (GC), General instruments, spectophotometry and pH meter, calorimety/ EGG, Wende systems, Wafting technology, Selection of lab equipment, Centrifugation technology.
* Principles and applications of routine laboratory instruments such as Photometry, chromatography, electrophoresis, spectrophotometry, flourimetry, and electronics will be discussed, including applications of automation in Laboratories.
* Calibration, Standard Operating Procedures, Elementary electronics practice
* Repairs including general principles of diagnosis of problems - mechanical, electrical to be applied to any other instrument the graduate may meet.