

## HPLC (2 Days)

- ❖ Principles, Introduction and applications of HPLC
- ❖ Brief introduction to manual injection valves, isocratic pumps and UV detection
- ❖ Effects of changing eluent composition, flow rate
- ❖ Making up an accurate mobile phase composition and degassing
- ❖ Basic precautions to avoid problems
- ❖ Operate an HPLC system safely
- ❖ HPLC solvent selection
- ❖ Column efficiency and capacity
- ❖ Normal phase versus reversed phase analysis
- ❖ Make up a sample & Make up a mobile phase.
- ❖ Switch on and operate an isocratic HPLC system.
- ❖ Make a manual injection.
- ❖ Understand the use of auto samplers.
- ❖ Follow a basic HPLC method.
- ❖ Replace a column.
- ❖ System suitability parameters
- ❖ HPLC-calibration Theory
- ❖ Basic trouble shooting, basic problems & solutions
- ❖ Preparation of sample & mobile phase
- ❖ Programming of HPLC software
- ❖ Make injection and run basic HPLC Chromatogram
- ❖ Report interpretation

