Masterclass 5: Integration & Calibration- 1 day

0900-1100

Principles of Integration
- Quantification
- Units
- Data collection frequency
- Data System Resolution
- Signal range
- Raw data and processed data

Integration algorithm
Handling fused peaks
Peak groups
Elimination of small peaks

1115-1300

Peak width and Peak Threshold
Timed events
Peak Identification
Peak Table parameters
Understanding Noise
Sources of Noise
Reducing Noise
Noise Analysis
Calibration
- Types of calibration
  -External Standard Calibration- single point and multi point
  -Internal Standard calibration
  -Standard Addition
  -Correlation Factor

1400-1700

Calibration range
Should a calibration curve be a straight line Preparation of calibration standards?
Bracketed Calibration
Use of zero in a calibration curve
Factors that threaten the integrity of a calibration
Confidence in results
Errors Analysis
- Random and Systematic Errors
- Accuracy and precision
- Analysis of random errors in HPLC

System Suitability Testing
Discussion and Questions