Mass Spectrometry Based Proteomics — Design & QC — Hands-on

Design and operate high-confidence LC–MS/MS proteomics studies. You will configure acquisition methods (DDA/DIA/SRM/PRM), implement system suitability and calibration, control contamination and carryover, plan run orders and batches, and track performance via practical QC dashboards.

Mass Spectrometry Based Proteomics — Design & QC

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Session Index

Session 1

Fee: Rs 12320 Apply Now

Acquisition Strategies & Method Design

DDA / DIA / PRM / SRM — when & why

coverage vs. quant goals **cycle time & multiplexing** **isolation schemes**

LC method design

gradient optimization **column selection & care** **loading & carryover checks**

Instrument parameters

AGC / IT | resolution & scan ranges | HCD/CE settings

Session 2

Fee: Rs 16520 Apply Now

System Suitability, Calibration & Tuning

Reference mixes & standards

iRT / PRTC | BSA / HeLa digest | SCT peptides

Calibration & tuning routines

mass accuracy (ppm) | sensitivity & S/N | spray stability

Acceptance thresholds & logs

daily/weekly SOPs | trend charts | preventive maintenance

Session 3

Fee: Rs 20720 Apply Now

Contamination Control & Run Order Planning

Contaminants & background

keratin / plasticizers | column bleed | solvent hygiene

Carryover mitigation

blank & wash cycles | needle washes | divert valves

Run order & batching

randomization/blocks | QC between samples | pooled QC & anchors

Session 4

Fee: Rs 26320 Apply Now

QC Metrics, Dashboards & Acceptance Criteria

Live & post-run QC metrics

TIC/base peak **MS2 ID rates** **RT stability (iRT)**

Quant precision & stability

%CV thresholds **mass accuracy (ppm)** **peak shapes & FWHM**

Dashboards & reports

automated QC charts **run acceptance checklist** **issue triage SOPs**