

ANALYTICAL TECHNIQUES SUMMER CAMP (#One Month)

B.V. Patel Pharmaceutical Education and Research Development (PERD) Centre, Thaltej, Ahmedabad

Details	Module 1	Module 2	Module 3	Module 4
	<p style="text-align: center;">Spectral Analysis Theory sessions</p> <ul style="list-style-type: none"> UV Spectroscopy: Quantification of multicomponent samples by absorbance correction, simultaneous estimation, ratio absorbance and derivative - spectrophotometry Mass Spectrometry: Fragmentation patterns, nitrogen and ring rules, McLafferty rearrangement. NMR Spectroscopy: Magnetic nuclei, resonance, chemical shift and shielding deshielding phenomenon, spin-spin splitting and its origin, Pascal's triangle, coupling constant. <p style="text-align: center;">Practical demonstration of mass spectrometer</p>	<p style="text-align: center;">Thermal analysis Theory sessions</p> <ul style="list-style-type: none"> The basis of Thermal Analysis, Differential Thermal Analysis (DTA): principle, interpretation of thermogram, industrial applications and case studies. Differential Scanning Calorimetry (DSC): principle, interpretation of thermogram and industrial application, concept and application of mDSC and case studies. Thermo gravimetric Analysis (TGA): principle, interpretation of thermogram and industrial application and case studies. <p style="text-align: center;">Practical demonstration of DSC</p>	<p style="text-align: center;">Column Chromatography Theory sessions</p> <ul style="list-style-type: none"> High Pressure Liquid Chromatography(HPLC) : Principle, instrumentation, peak shapes, capacity factor, selectivity, plate number, plate height, resolution, band broadening, pumps, injector, detectors, columns, column problems, gradient HPLC, HPLC solvents, trouble shooting, sample preparation, method development. <p style="text-align: center;">Practical Demonstration of HPLC</p>	<p style="text-align: center;">Analytical Data Interpretation</p> <ul style="list-style-type: none"> UV Spectroscopy: Woodward-Fieser, Fieser-Kuhn and Nelson rules. IR Spectroscopy: Interpretation of IR spectra and determination of functional groups. Mass Spectrometry: Interpretation of mass spectra NMR Spectroscopy: Interpretation of NMR spectra <p style="text-align: center;">Case studies</p>
Fees/ time				
Individual	Rs. 5000/-	Rs. 4500/-	Rs. 5000/-	Rs 4500/-
Group of 5 maximum upto 10	Rs. 4000/- per individual	Rs. 3500/- per individual	Rs. 4000/- per individual	Rs. 3500/- per Individual

For details please contact: director@perdcentre.com, perd@perdcentre.com, neetas@perdcentre.com, viral@perdcentre.com

Phone: 079-27439375, 27416409. # Four hours a day, 5 days in a week.