

GUJARAT TECHNOLOGICAL UNIVERSITY
GRADUATE SCHOOL OF PHARMACY

offered

Certificate Course

in

Training of Sophisticated Analytical Instruments Handling



Graduate School of Pharmacy,
Gujarat Technological University,
K-6, Near Polytechnic campus, Gandhinagar -382028
Website: <https://www.gsp.gtu.ac.in>
Contact: +91 7069007910

Certificate course on

Training of Sophisticated Analytical Instruments Handling

1. Background	<p>The Gujarat Technological University (GTU) has established its Constituent PG School named Graduate School of Pharmacy (GSP) in 2017 at GTU Gandhinagar Campus. Currently, GSP is running M.Pharm courses in Pharmaceutical Regulatory Affairs (PRA), Pharmaceutical Quality Assurance (PQA) and Pharmaceutics. The GTU has developed the advance research facilities at the Graduate School of Pharmacy to cater the need of Students, Faculties and Industries.</p>														
2. About Course	<p>This certificate course aims to equip participants with the skills required to handle and operate sophisticated analytical instruments, which are imperative in the present industrial environment. The training provides a sound background of the basic principles of analysis, an understanding of the instrumentation involved and the opportunity to become familiar with practical techniques.</p>														
3. Instruments Covered/Course Content	<table border="1"><thead><tr><th>Instrument Name</th><th>Make and Model</th></tr></thead><tbody><tr><td>Ultra-Violet (UV) Spectrophotometer</td><td>UV-1900 (Shimadzu)</td></tr><tr><td>Fourier transformed Infrared (FT-IR) Spectrophotometer</td><td>IR Spirit (Shimadzu)</td></tr><tr><td>High Performance Thin Layer Chromatography with Mass Detection (HPTLC-MS)</td><td>USP Compliance Model (Camag)</td></tr><tr><td>High Pressure Liquid Chromatography (HPLC)</td><td>Agilent 1260 Infinity II HPLC (600 bar)</td></tr><tr><td>Ultra-High Pressure Liquid Chromatography (UHPLC)</td><td>Agilent 1290 Infinity II HPLC (1300 bar)</td></tr><tr><td>Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS)</td><td>Agilent 6470A QQQ</td></tr></tbody></table>	Instrument Name	Make and Model	Ultra-Violet (UV) Spectrophotometer	UV-1900 (Shimadzu)	Fourier transformed Infrared (FT-IR) Spectrophotometer	IR Spirit (Shimadzu)	High Performance Thin Layer Chromatography with Mass Detection (HPTLC-MS)	USP Compliance Model (Camag)	High Pressure Liquid Chromatography (HPLC)	Agilent 1260 Infinity II HPLC (600 bar)	Ultra-High Pressure Liquid Chromatography (UHPLC)	Agilent 1290 Infinity II HPLC (1300 bar)	Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS)	Agilent 6470A QQQ
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4. Eligibility	<p>The minimum eligibility criteria for Certificate course on Training of Sophisticated Analytical Instruments include either of the following:</p> <ul style="list-style-type: none">➤ Graduation in Pharma/ Medical/ Chemistry/ Biomedical/ Biotechnology/ Microbiology/ Basic Science														

	<ul style="list-style-type: none"> ➤ Students in the final year of the courses as above are also eligible to apply ➤ PG Students/ Research Scholars in the field as mentioned above are also eligible. ➤ Candidates with work experience in Sophisticated Analytical Instruments Handling are also be eligible for this program.
5.	Course structure
	Duration : 6 Months (Weekend course)
	Theory : 36 Hours
	Practical : 96 Hours
	Theory and Practical sessions will be conducted on weekends as per predefined schedule.
	Batch: Max. 20
6.	Course fees: 15000/- per candidate
7.	<p>Why to join Training Program?</p> <p>This programme is designed to provide comprehensive training in analysis of pharmaceutical products using sophisticated analytical instruments. Pharmaceutical industry demands human resources well trained to handle sophisticated analytical instruments. A person undertaking a certificate course on Training of Sophisticated Analytical Instruments is assured of great Opportunities for a job in Pharmaceutical industries as Trained Technician.</p>
8.	<p>Learning outcome</p> <p>At the end of the Program participants would have strong understanding of following areas</p> <ul style="list-style-type: none"> • Theory and Methods • Method development and Validation • Operating the instrument • Qualification, Calibration and validation of Instrument • Trouble shooting and Maintenance of instrument
9.	<p><u>Evaluation:</u> Through different modes like submission of assignments, Mid-course and end course examination.</p> <p><u>Certification:</u> Certificate will be awarded to successful students who will attend at least 80% of scheduled activities will qualify the examination.</p>