Gujarat Technological University
School of Pharmacy
Two-Day Training Program on Good Automated Laboratory Practices (GALP)

Organized by:
GTU School of Pharmacy
Gujarat Technological University (GTU), Gandhinagar

Duration: Two Days (12-13 December, 2025)
Venue: GTU – School of Pharmacy, GTU Gandhinagar Campus.

Introduction:

GTU School of Pharmacy, Gujarat Technological University (GTU), Gandhinagar successfully organized a Two-Day Training Program on "Good Automated Laboratory Practices (GALP)" with the objective of strengthening technical competence, regulatory understanding, and hands-on exposure in automation-driven modern laboratories.

With rapid advancements in pharmaceutical sciences, analytical testing, and research environments, the demand for laboratory automation, data integrity, regulatory compliance, accreditation readiness, and sustainable laboratory operations has become increasingly critical. The GALP training program was carefully designed to address these evolving requirements through a balanced combination of expert-led technical sessions, regulatory insights, sustainability perspectives, career guidance, and extensive hands-on instrumentation training.

The program served as a common platform for participants from academia and the pharmaceutical industry, enabling meaningful knowledge exchange, experience sharing, and alignment with current industry and regulatory expectations.

Participant Profile & Statistics:

Category	Details
Total Participants	54
Male Participants	26
Female Participants	28
Participants from Academia	30
Participants from Industry	24
Students	16 (M.Sc., M.Pharm., B.Pharm.)
Working Professionals	38

Inaugural Session:

 The Two-Day Training Program on Good Automated Laboratory Practices (GALP) was formally inaugurated with a ceremonial lamp lighting and the GTU Song, symbolizing knowledge, innovation, and academic excellence.

Dr. Sanjay Chauhan, Institute Head, GTU School of Pharmacy, delivered the welcome and inaugural address, where he highlighted the importance of laboratory automation, data integrity, and quality assurance systems. He also presented a comprehensive overview of the two-day training structure and shared insights into GTU School of Pharmacy's vision, infrastructure, academic strengths, and industry-oriented initiatives.

The inaugural session effectively set the tone for two days of focused technical learning, expert interaction, and practical exposure.

Expert & Technical Sessions (Day 1 & Day 2):

The program featured 11 expert sessions delivered by eminent professionals from academia and industry, covering validation, sustainability, cell & gene therapy automation, accreditation standards, data integrity, computer system validation, and career development in automation-driven laboratories.

Additionally, two extensive hands-on instrumentation sessions provided participants with real-time exposure to advanced analytical instruments including HPLC, HPTLC, FTIR, NMR, LC–MS, GC–MS, and ICP–MS, reinforcing compliance-oriented and automation-based laboratory workflows.

Session 1: Validation, Calibration & Standardization in Automated Laboratories:

Speaker: Mr. Gaurang Oza, Vice President IPA-GSB

This foundational session focused on **laboratory quality systems and regulatory compliance**, covering:

- Validation protocols and lifecycle approaches
- Calibration best practices for automated instruments
- Standardization requirements and **Indian Pharmacopoeia (IP)** guidelines
- Recent global drug quality concerns and regulatory expectations

Session 2: Sustainability Through Laboratory Automation

Speaker: Dr. Daulatsinh Zala, Associate Professor, GTU-SAST

This session highlighted how automation supports **sustainable and efficient laboratory practices**, focusing on: Energy-efficient automation systems

- Reduction of manual errors and optimized resource utilization
- Smart data management and digitalization
- Environmentally responsible and green laboratory operations

Session 3: Good Automation Practices in Cell & Gene Therapy:

Speaker: Dr. Senthil Natesa, Director, QRL Bioscience

An advanced technical session covering:

- Automation in Cell & Gene Therapy (CGT) laboratories
- Ensuring sterility, precision, traceability, and reproducibility
- Regulatory and quality expectations for advanced therapies
- Future trends including robotics and AI-driven automation
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Session 4: Accreditation Essentials – NABL, ISO/IEC, GLP & Beyond:

Speaker: Dr. Nitasha Khatri, Senior Scientific Officer & Laboratory Head, GEMI

This session provided practical clarity on:

- NABL accreditation (ISO/IEC 17025) requirements
- GLP principles, documentation, and ethical laboratory conduct
- Audit preparedness and accreditation pathways
- Role of automation and GALP in accreditation readiness

Session 1: GLP – Importance of Instrument Care and Maintenance in GALP:

Speaker: Mr. Chirag Patel, ADL-GLP Manager, Emcure Pharmaceuticals
Focused on:

- Preventive vs corrective maintenance
- Calibration and qualification practices
- Documentation, logbooks, and audit readiness
- Impact of maintenance on data quality and regulatory compliance

Session 2: Ensuring Data Integrity in Automated Systems:

Speaker: Dr. Pranav Jogani, Professor of Practice & Pharma Consultant
Covered:

- ALCOA+ principles and data lifecycle management
- Data integrity risks in automated environments
- Audit trails, electronic records, and compliance
- Global regulatory expectations (USFDA, EMA, WHO, GAMP 5)

Session 3: Computer System Validation (CSV) in Automation:

Speaker: Dr. Shrinivas Savale, CEO AIC - LMCP
Provided in-depth understanding of:

- CSV lifecycle (URS, IQ, OQ, PQ)
- Risk-based validation approaches
- 21 CFR Part 11 and GAMP 5 compliance
- Common audit observations and best practices

Session 4: How to Present Yourself in Automation Practices:

Speaker: Mr. K. P. Patel
This career-oriented session addressed:

- Industry expectations for automation-ready professionals
- Professional communication and interview readiness
- Effective presentation of automation skills
- Career growth opportunities in pharmaceutical, analytical, and research laboratories

Hands-on Training & Live Demonstrations

Participants received extensive hands-on exposure to advanced analytical instruments, including:
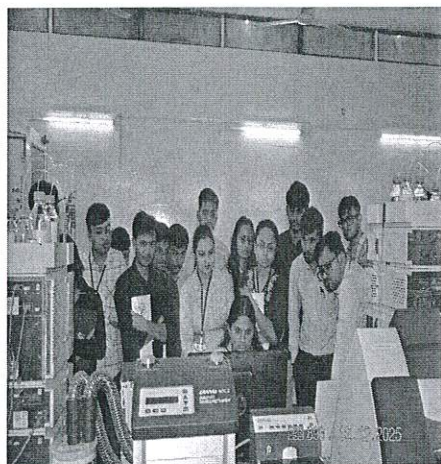
- HPLC, HPTLC, FTIR, NMR
- LC–MS, GC–MS, ICP–MS

Key Activities Included:

- Guided instrument operation
- Method execution and data interpretation
- Calibration and validation exposure
- Automated workflows and troubleshooting
- Advanced system handling
- Troubleshooting techniques
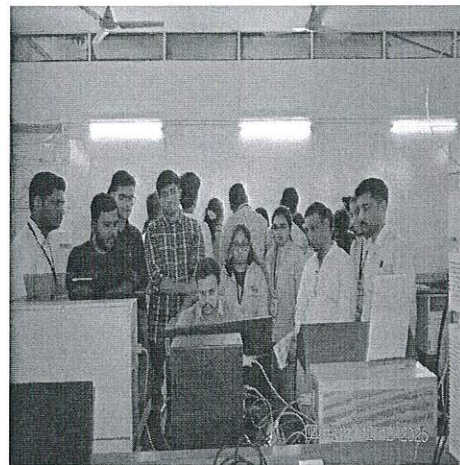- Compliance-oriented laboratory workflows
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Participation:

- All 54 participants completed laboratory rotations across GTU School of Pharmacy facilities

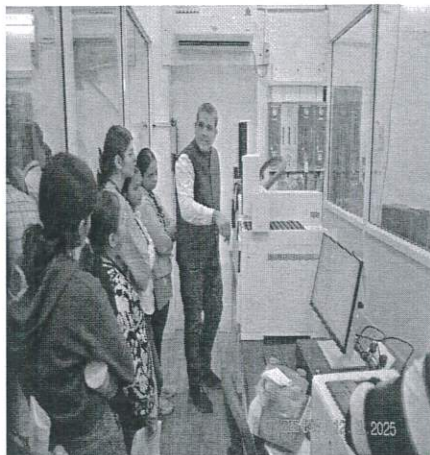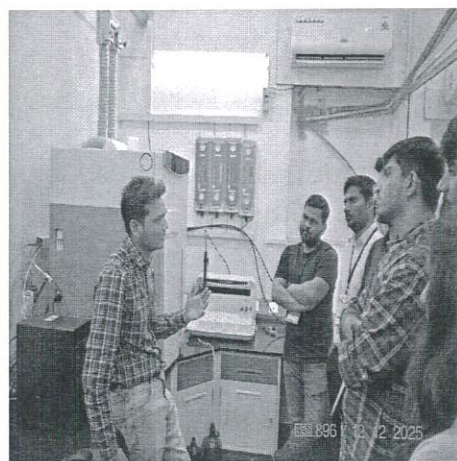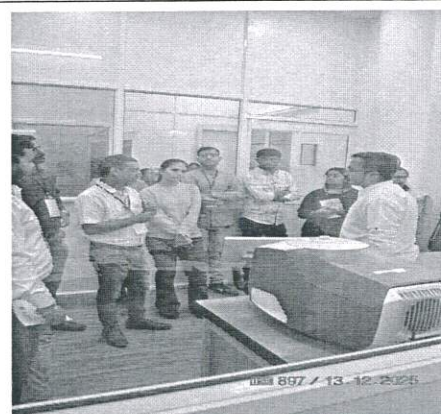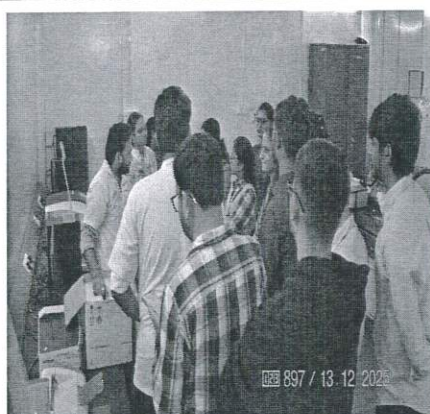| Hands on HPLC (Agilent) | Hands on HPLC (Thermo) | Hands on HPTLC |

Demonstration on LCMS/MS

Demonstration on GCMS/MS

Demonstration on ICPMS/MS

Hands on NMR Spectroscopy

Hands on FTIR Spectroscopy

Laboratory Facility Visit

Valedictory, Feedback & Certificate Distribution:

The program concluded with a Valedictory, Feedback, and Certificate Distribution Ceremony. Participants expressed high satisfaction with the technical depth, practical exposure, and relevance of the sessions. Certificates were distributed to all participants, followed by a vote of thanks and group photograph.

The Two-Day Training Program on GALP successfully strengthened participant competence in automation, regulatory compliance, data integrity, and accreditation readiness, reaffirming GTU School of Pharmacy's commitment to skill-based education and industry collaboration.
- Comprehensive summary of the two-day training program
- Participant feedback session with highly positive responses
- Valedictory address by dignitaries
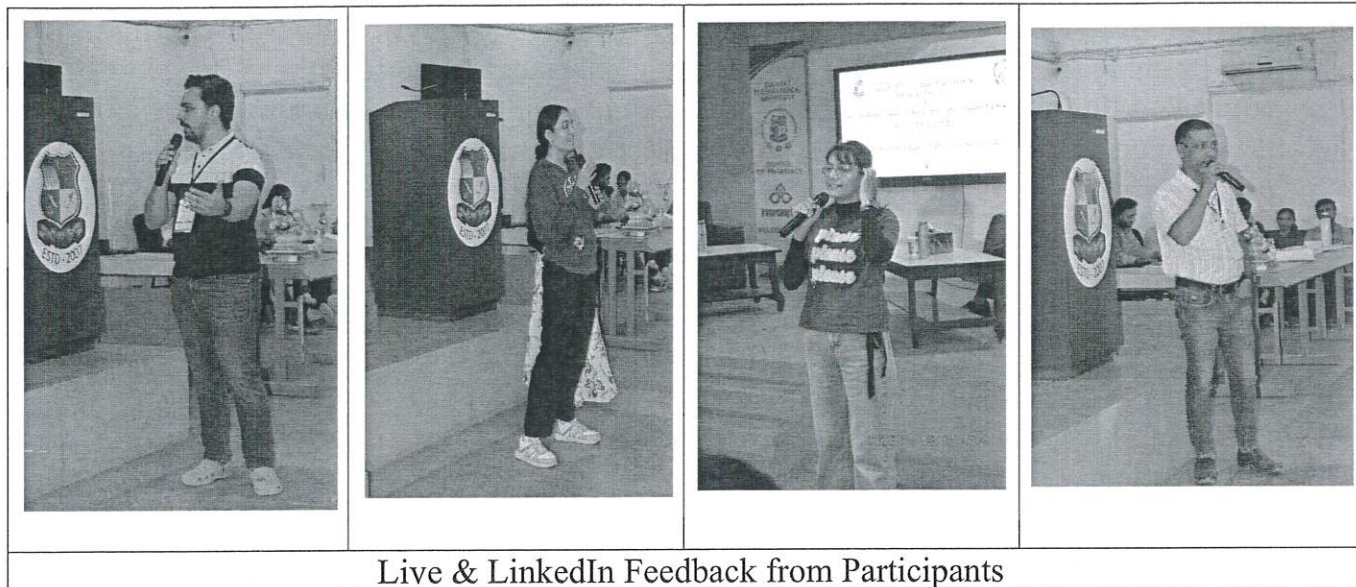- Certificate distribution to all 54 participants

- Vote of thanks acknowledging speakers, faculty, organizers, and participants
- Group photograph marking a memorable conclusion

Live & LinkedIn Feedback from Participants

Keval Raval ⊘ · Following
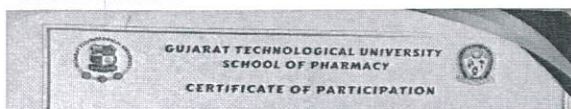Assistant Manager | Clinical Research | Lead Audito...
1d · 🌐

I recently attended a two-day professional development program on **Good Automated Laboratory Practices (GALP)** organized by **GTU - School of Pharmacy.**

The program provided valuable insights into laboratory automation, sustainability through automation, Data integrity, computer system validation (CSV), regulatory expectation, Quality Compliance, and the importance of proper instrument care and maintenance. The blend of expert led sessions and hands on exposure made the learning experience both practical and impactful.

Grateful to receive a certificate of participation upon completion. Such Training program play a key role in continuous learning and building industry relevant technical competence.

Sincere thanks to **GTU - School of Pharmacy** and the organizing team **Vidhi Sheth, Jashvant Chaudhary** and **Himani Khandelwal** for this excellent initiative.

#GALP
#LaboratoryAutomation
#CSV
#Dataintegrity
#GTU
#Instrumentation

Bhargav Dave ⊘ · Following
GCP/GLP Auditor & Bio-Analytical Research Expert | ...
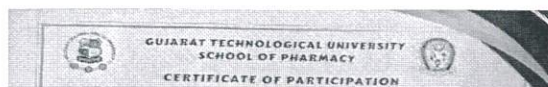2d · 🌐

I recently attended a two-day professional development program on **Good Automated Laboratory Practices (GALP)** organized by **GTU - School of Pharmacy.**

The program offered an excellent blend of expert-led lectures and hands-on exposure to sophisticated automated and analytical laboratory instruments. The sessions provided valuable insights into laboratory automation, data integrity, regulatory expectations, and quality compliance, which are highly relevant to today's pharmaceutical and bioanalytical laboratories.

I am grateful to have received a certificate of participation upon completion of the program. Such initiatives play an important role in continuous learning and strengthening industry-aligned technical competence.

My sincere thanks to **GTU - School of Pharmacy** and the organizing team for delivering such a well-structured and impactful learning experience.

#GoodAutomatedLaboratoryPractices
#GALP
#LaboratoryAutomation
#DataIntegrity
#PharmaceuticalQuality
#BioanalyticalSciences
#ProfessionalDevelopment
#GTU

Conclusion:

The Two-Day Training Program on **Good Automated Laboratory Practices (GALP)** successfully achieved its objectives by delivering a **comprehensive, industry-relevant,**
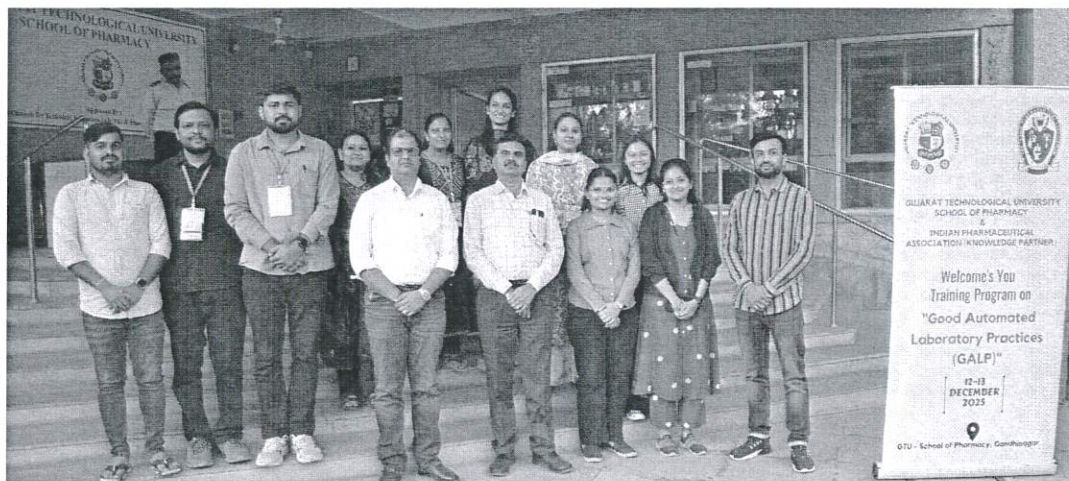
and hands-on learning experience. The program significantly enhanced participant competence in **laboratory automation, regulatory compliance, data integrity, accreditation readiness, sustainability, and advanced analytical instrumentation**.

The training reaffirmed **GTU School of Pharmacy's commitment to skill-based education, industry collaboration, and capacity building**, contributing meaningfully to the development of **future-ready, compliant, and quality-driven laboratory professionals**

Group Photograph with Participants

Photograph with Organizing Committee

Place : Gandhinagar

Date : 13-December-2025

Institute head GTU-SP

Dr. (Prof.) Sanjay Chauhan