

Gujarat Technological University



School of Pharmacy

organizes

One-Day Hands-On Training on: Tableting Techniques and Quality Characterization

Date: 1st March 2025

Number of Trainee: 20

Fee: 1500 ₹ (Including Breakfast & Lunch)

Eligibility: B.Pharm (3rd & 4th Year), M.Pharm, Ph.D

Link for Registration: <https://forms.gle/avUgUpLpnMhivaBF9>

Last date for Registration: 26.02.2025

Link for Payment: Will be shared to selected candidates

Coordinator:

Dr. Dasharath M. Patel

Associate Professor

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Convener:

Dr. Sanjay

Chauhan

Head, GTU School of
Pharmacy

REPORT OF
Hands-on Training Session
on
**“One-Day Hands-on Training on Tableting
Techniques & Quality Characterization”**

Organized on: 1st March 2025



SCHOOL OF PHARMACY
GUJARAT TECHNOLOGICAL UNIVERSITY

Coordinator: Dr. D. M. Patel

SUMMARY

Type of Event	Hands-on Training Session	
Experts	Dr. Pranav Jogani	Dr. D. M. Patel
Affiliation	Professor of Practice, GTU School of Pharmacy	Asso. Professor, GTU School of Pharmacy
Title of Session	One-Day Hands-on Training on Tableting Techniques & Quality Characterization	
Date of Event	01/03/2025	
Number of Participants	15	
Coordinator	Dr. D. M. Patel	

Preamble:

On **March 1, 2025**, a **One-Day Hands-on Training on Tableting Techniques & Quality Characterization** was successfully conducted. The training featured **Dr. D. M. Patel** and **Dr. Pranav Jogani** as expert speakers, who provided valuable insights into tablet formulation, manufacturing, and quality assessment. The event was attended by **15 participants**, including faculty members and students, aiming to gain practical exposure to pharmaceutical tablet manufacturing processes.

Objective of the Activity:

The objective of this hands-on training was to **bridge the gap between theoretical knowledge and practical application in tablet manufacturing**. The session aimed to provide participants with a **comprehensive understanding of tableting techniques, tooling, formulation challenges, and quality characterization**, ensuring they develop **industry-relevant skills**.

Activity Details:

The training began with a session by **Dr. D. M. Patel** (Training Co-ordinator), who covered the **fundamentals of tablet dosage forms**, including their importance, formulation challenges, and various types of tablets. His session concluded with an interactive **question-and-answer session**, allowing participants to discuss real-world challenges in pharmaceutical manufacturing.

In the next session, **Dr. Pranav Jogani** (Professor of Practice at School of Pharmacy GTU), emphasized **the importance of hands-on training**, referencing **Edgar Dale's Cone of Experience** to highlight the role of experiential learning in pharmaceutical sciences. He also elaborated on **tablet tooling, specifications, common tablet defects, and their root causes**.

The second half of the training was dedicated to **practical hands-on experience** lead by **Dr. Dignesh Khunt**. Participants engaged in:

- **Weighing excipients** to understand formulation components
- Demonstrations of **Rapid Mixing Granulator** and **Fluid Bed Dryer**
- **Tablet compression** using a tablet press
- **Quality characterization tests**, including weight variation, thickness measurement, hardness testing, friability, disintegration, and dissolution studies

Outcomes:

This training provided participants with a **holistic understanding of tablet formulation and quality characterization**. The hands-on experience helped them **develop essential skills in manufacturing and evaluating pharmaceutical tablets**, enhancing their **industry readiness**. The event successfully facilitated a **fruitful exchange of knowledge between academia and industry**, equipping participants with practical expertise that will be valuable in their professional journeys.

Event Photo:





