



Uka Tarsadia University

Maliba Pharmacy College

Report on Three-Day National Workshop

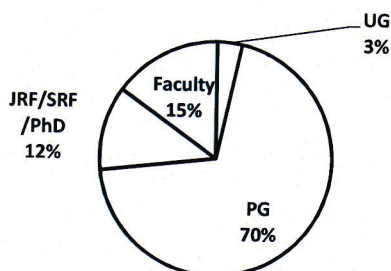
“Sustainable Nanomaterial Synthesis and Advanced Characterization Techniques”

Date: 22nd – 24th January, 2026

Venue: Shrimad Hall & DST-FIST Laboratory, Maliba Pharmacy College

Time: 09:00 A.M. onwards

Total Number of Participants: 86



Organizer: Maliba Pharmacy College (MPC), Uka Tarsadia University (UTU)

Sponsorship: SERB – Core Research Grant

Program Objective

The objective of the three-day national workshop was to provide participants with in-depth knowledge and hands-on exposure to **sustainable nanomaterial synthesis and advanced characterization techniques**, emphasizing green synthesis approaches, modern analytical tools, and their applications in pharmaceutical and interdisciplinary research.

Program Outline & Day-wise Report

Day 1 – 22nd January 2026 (Thursday)

The National Workshop commenced with a formal inaugural ceremony. The event was graced by the distinguished presence of **Dr. Dinesh R. Shah**, Chief Executive Officer, UTU; our esteemed Patrons, **Dr. Ashish D. Mishra**, Principal, MPC; and **Dr. Shailesh A. Shah**, Dean, Faculty of PG and Pharmacy. **Dr. Y. P. Kosta**, Provost, UTU, and the Convener, **Dr. Furqan Maulvi**, Senior Associate Professor, MPC, also marked their presence, lending prestige and academic depth to the occasion. The workshop was further honored by the presence of the Chief Guest, **Dr. Pravin Patil**, Professor, Department of Pharmaceutical Chemistry, H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur; whose participation significantly enhanced the importance of the event. The program was efficiently coordinated by the Organizing Secretaries, **Dr. Hetal Patel**, Senior Associate Professor and **Dr. Ditixa Desai**, Assistant Professor, MPC.

The first technical session was delivered by **Dr. Pravin Patil** on the topic “Fluorescence-Enabled Theranostic Nanoplatfroms.” The session provided valuable insights into the integration of nanotechnology in diagnosis and therapy, with special emphasis on fluorescence-based theranostic systems.

This was followed by an expert lecture by **Mr. Vijay Kawade** and **Mr. Barun Maji**, Regional Manager, IR Technology Services Pvt. Ltd., Navi Mumbai, on “Optical Tensiometer – Applications.” The speakers elaborated on the working principles, technical aspects, and practical applications of the optical tensiometer in research and industrial settings.

In the afternoon session, a hands-on training on the Optical Tensiometer was conducted at the DST-FIST Laboratory. This practical session offered participants an opportunity to gain first-hand experience in operating the instrument and understanding its analytical applications.

Day 2 – 23rd January 2026 (Friday)

The second day of the National Workshop was dedicated to nanomaterial characterization and green synthesis techniques. The day commenced with an informative lecture by **Dr. Kunjan Bodiwala**, Associate Professor, L. M. College of Pharmacy, Ahmedabad, on the topic “Characterization of Nano-materials and Formulations.” The session comprehensively covered various analytical tools and instrumental techniques essential for nanotechnology-based research and formulation development.

Subsequently, **Dr. Hetvi Naik**, Subject Matter Expert from Turing (USA), delivered an expert lecture on “Green Synthesis of Metal Oxide Nanoparticles Using Bacteria and Fungi: Principles, Mechanisms, and Applications.” Her talk emphasized environmentally sustainable and eco-friendly approaches for nanoparticle synthesis, highlighting biological mechanisms and their potential applications in pharmaceutical and biomedical fields.

In the afternoon session, **Dr. Hetvi Naik**, in collaboration with **Dr. N. Amaresan**, Associate Professor, C. G. Bhakta Institute of Biotechnology, UTU, conducted a hands-on training on the preparation of iron oxide nanoparticles. The practical session enabled participants to gain experiential learning and deeper understanding of green synthesis methodologies.

The day also featured a poster presentation session, providing participants with an opportunity to showcase their research work and engage in scholarly discussions. A total of 14 participants presented their posters. The presentations were evaluated by **Dr. Kunjan Bodiwala** and **Dr. Jitendra Singh Yadav** based on scientific content, originality, clarity of presentation, and communication skills.

At the conclusion of the session, awards were announced to recognize outstanding research contributions:

- **Best Poster Presentation Award:** Ms. Aashka Bhatt
- **First Runner-Up:** Ms. Ashmi Shah
- **Second Runner-Up:** Ms. Yashasvi Desai

The poster presentation session fostered healthy academic competition, enhanced research communication skills among participants, and significantly enriched the overall academic experience of the workshop.

Day 3 – 24th January 2026 (Saturday)

The final day of the workshop focused on **data analysis and nanoparticle synthesis methodologies**. The first session was delivered by **Dr. Pintu Prajapati**, Senior Associate Professor, Department of Quality Assurance, Maliba Pharmacy College, UTU, on “*Principal Component Analysis Using Design of Experiments*”, explaining multivariate data analysis techniques.

This was followed by a lecture on “*Nanoparticles Synthesis by Anti-Solvent Crystallization*”, highlighting industrial and research applications by **Dr. Meghal Desai**, Professor, Department of Chemical Engineering, SVNIT, Surat,

The workshop concluded with the **Valedictory Function, Vote of Thanks, certificate distribution**, and high tea.

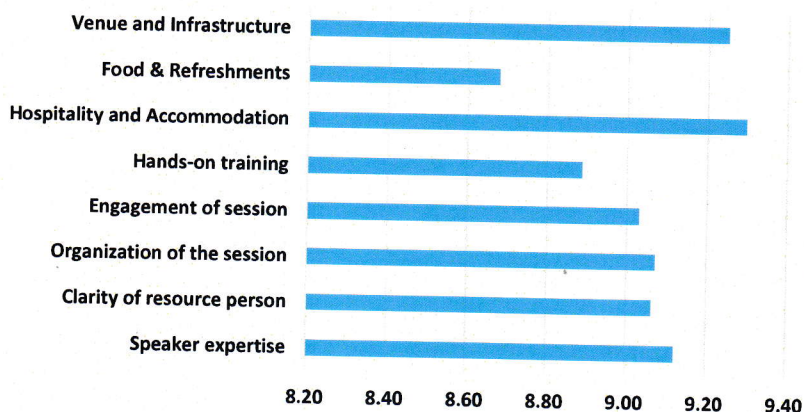
Program Outcome

The workshop successfully enhanced participants' theoretical knowledge and practical skills related to sustainable nanomaterial synthesis, advanced characterization techniques, and data analysis tools. Participants gained exposure to current research trends, hands-on laboratory experience, and expert guidance. The event also promoted academic interaction among students and researchers from Maliba Pharmacy College and other institutions, fostering a research-oriented learning environment.

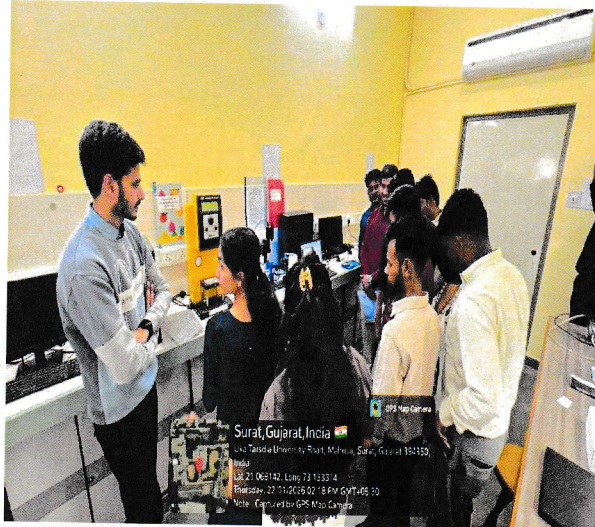
Concluding Remark

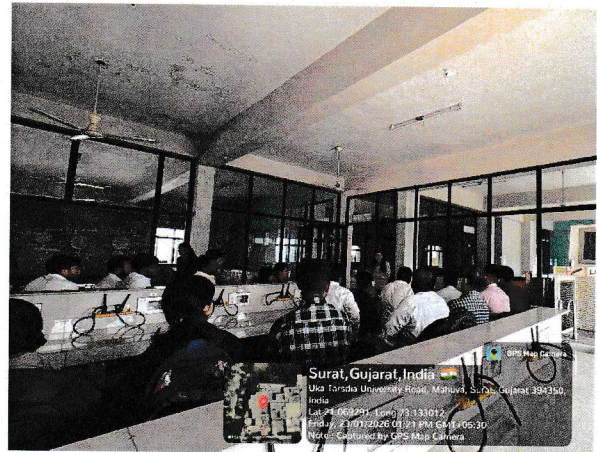
The three-day national workshop was successfully conducted and fulfilled its academic and research objectives. The combination of expert lectures, hands-on training, and poster presentations provided valuable learning and practical exposure to participants. The active involvement of internal and external participants reflected the relevance of the workshop and reinforced Maliba Pharmacy College's commitment to research, innovation, and academic excellence.

Overall Feedback of Participants [9.05/10]



Glimpse of the Events







NAAC Criteria: 3.3.2

Signature of Principal: Dr. Ashish Mishra

Principal
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Gopal Vidyanagar
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