

REPORT ON NATIONAL SEMINAR AND POSTER PRESENTATION COMPETITION 2025

Date of event	08.02.2025
Time of event	8:30-4:30pm
Name of speakers	1. Dr.Khushwant Yadav 2. Dr.Sunil Raut
No. Students present	450
Venue	Seminar: 4 th Floor Auditorium, VIVA Technical campus
PO match For all events	PO1, PO3, PO5,PO6,PO8,PO10

A national seminar was organized on 8th February 2025 under the aegis of the Institution's Innovation Council (IIC) and the Internal Quality Assurance Cell (IQAC). The seminar was sponsored by Dolphin Pharmaceuticals. The event was coordinated by Mrs. Neha Laxane, the Faculty Coordinator. The seminar began with the "Saraswati Vandana," and the event was further coordinated by student council members. Principal Dr. Sunita Ogale gave a warm welcome note to the audience, addressing the theme of the seminar, "Optimizing Pharmaceutical Research: Leveraging the Design of Enhanced Quality."

Further, Mrs. Neha Laxane introduced the guest speaker, Dr. Khushwant Yadav, who provided information on the "Design of Experiments in Nomenclature." This involved experimental technology design that creates innovative solutions to test hypotheses, validate assumptions, and gather data. He briefed on Quality Target Product Profile, control strategy, critical process parameters, critical quality attributes, and design space. He discussed the DoE approach for the optimization of nanomedicine. Additionally, he explained the Six Sigma concept and QbD life cycle. He also discussed factorial design and the umbrella-shaped quadratic effect. The session concluded with a Q&A session.

Ms. Akkshata Parab introduced the second speaker, Dr. Sushil Raut, who expressed his thoughts on the topic, "Exploring the Box-Behnken Design: A Comprehensive Case Study on Optimization and Experimental Design in Pharmaceutical Research." A leading automotive manufacturer required optimization of a Box-Behnken mechanism used in one of their vehicle models. The mechanism was experiencing efficiency losses and vibrations. The optimization of the Box-Behnken mechanism resulted in significant improvements in efficiency, vibration reduction, and size reduction. He further explained the use of multi-objective optimization algorithms, FEA, and kinematic analysis, enabling the identification of optimal design

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parameters. The optimized design was validated through prototyping and testing, demonstrating the effectiveness of the optimization methodology.

The session concluded with a Q&A session. The valedictory function included a vote of thanks by Dr. Sanghdeep Gajbhiye and the prize distribution for the poster presentation competition.

List of winners for the poster presentation competition:

Prize	Name of student	Affiliation
First	Divya Sharma, Rutika Patil	VIVA Institute of Pharmacy, Virar
Second	Rani Katekar, Isha Kevadiya	H K College of Pharmacy, Jogeshwari(w), Mumbai
Third	Deepak Mishra, Ruchita Shinde	Oriental College of Pharmacy, Sanpada, New Mumbai
Consolation1	Aditi More, Aditya Wable	VIVA Institute of Pharmacy, Virar
Consolation 2	Shivam Yadav, Yash Sankhe, Shravani Pawar, Dhruv Vaidya	VIVA Institute of Pharmacy, Virar



Prepared by:

Dr. Archana Bele

Dr.Sushruta Mulay



Dr. Sunita Ogale

Principal

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