

MET'S Institute of Pharmacy

ACTIVITY REPORT

Name of Activity: Workshop: "Learning QBD based approach in Formulation & Development."

Day and Date: Saturday, 23rd May 2026.

Participants	Staff	Students
	3	40

Details of the Program:

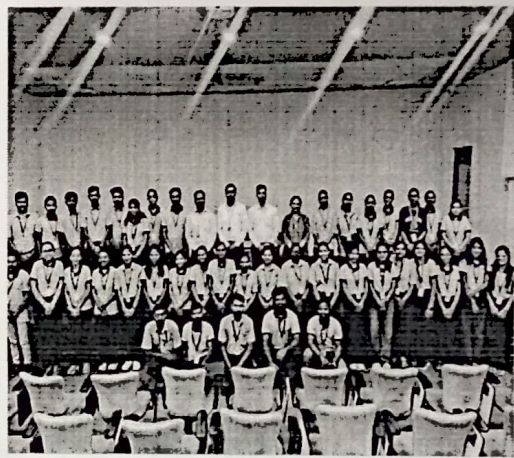
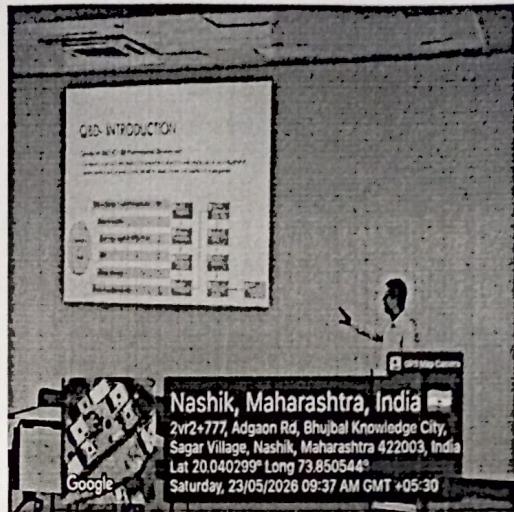
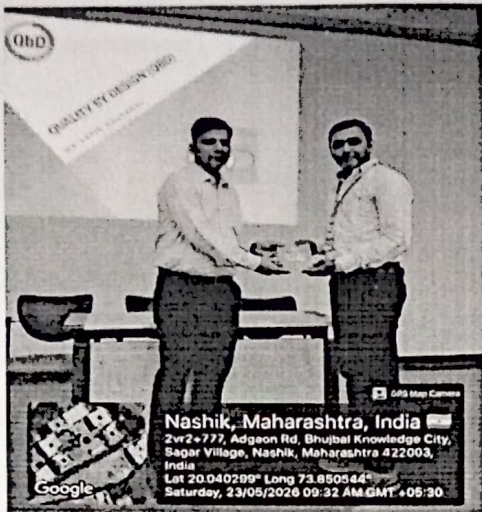
METs Institute of Pharmacy, Department of Quality Assurance Techniques, Bhujbal Knowledge City, Nashik organized workshop on QBD based approach in F&D. A workshop on Design-Expert Software was conducted by Mr. Kapil Kulkarni to provide students with practical knowledge of Design of Experiments (DOE) and statistical optimization techniques. The training focused on understanding how experimental design can be used to optimize processes, improve product quality, and reduce the number of experimental trials. The session combined theoretical concepts with practical exercises, enabling students to gain confidence in using the software for real-world applications. Students and staff of the IOP actively participated in the workshop and gained practical exposure.

Programme outcomes attained:

PO1	Pharmacy Knowledge	✓	PO7	Pharmaceutical Ethics	✓
PO2	Planning Abilities	✓	PO8	Communication	
PO3	Problem Analysis	✓	PO9	The Pharmacist and society	✓
PO4	Modern Tool Usage	✓	PO10	Environment and Sustainability	✓
PO5	Leadership Skills		PO11	Lifelong Learning	✓
PO6	Professional Identity	✓			

Objectives of the Activity	- To introduce participants to the fundamentals of Design of Experiments (DOE) and statistical analysis. - To understand the application of Analysis of Variance (ANOVA) for evaluating experimental results. - To interpret graphical outputs such as contour plots, response surface plots, and desirability functions. - To apply Design-Expert Software for process optimization, product development, and quality improvement in research and industry.
Benefits of the activity	- Improves understanding of statistical experimental design and optimization techniques. - Reduces the number of experiments required, saving time, materials, and costs. - Enhances the accuracy and reliability of experimental results. - Enables identification of significant factors affecting process or product performance.

Photos of the event:



Dr. R. S. Ahire

Dr. E. D. Ahire

Coordinators

Dr. G. S. Deokar
HOD_QA

Dr. S. J. Kshirsagar
Principal