



Quality by Design (QbD) and Design of Experiments (DoE)

Certification course for enhanced career growth



21-22-23 September 2015

Activity Conduct Report:

Eminent Speaker & Trainer: **Dr. Mukesh C. Gohel** [PG Director]

No. of Participants: **20**

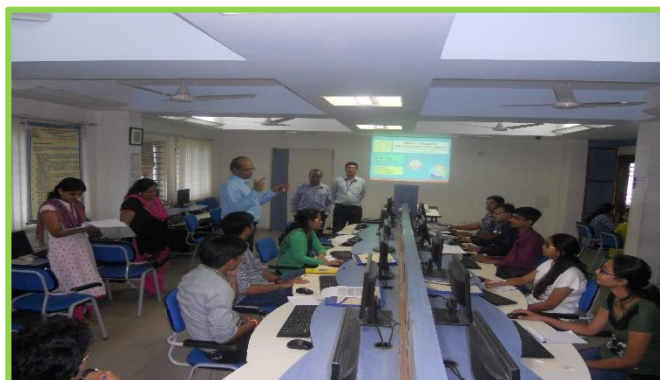


Course topic covered: **Design of Experiments (DoE)**

- The salient feature was the hands-on training on computer.
- Detailed knowledge on screening designs, factorial design, central composite design, and fractional factorial design. Stress given on interpretation of the results of multiple regression analysis.
- Introduction to multivariate tools. The participants was able to analyze the data and define the design space.

Quality by Design (QbD)

- Training on QbD was given in various modules. The program includes introduction to QbD, QTPP, elements of QbD, Ishikawa diagram, Quality risk management (QRM), identification of CMA, CPP, continuous improvement, etc.
- Introduction to PAT and lean drug manufacturing was also covered.
- Hands-on training given for MiniTab and Design Expert software.

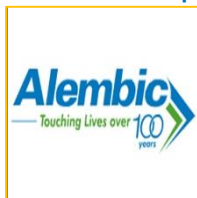


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"Quality cannot be tested into products, it should be built in, or by design"



Feedback of participants:



Mr. Paresh Somabhai Patel, Group leader, Alembic Pharmaceuticals Ltd., Vadodara.
The most appreciating thing was course content framed, planned and executed well.



Mr. Kaushal N. Patel, Sr. Development Scientist, Orbit Pharmaceuticals, Ahmedabad.
Art of teaching QbD and DoE using statistical studies were excellent.



Prof. Vipul Prajapati, Associate Professor, SSR College of Pharmacy, Silvasaa.
It was user friendly explanation of all types of QbD statistical tools with examples.



Dr. Dipti Patel, Associate Professor, Parul Institute of Pharmacy, Vadodara.
Oral presentation and hands-on training sessions were too much informative and that can be implemented in the research work.



Ms. Suruchi K. Raval, B. Pharm. Student, L. M. College of Pharmacy, Ahmedabad.
The best thing about QbD & DoE course is its usefulness in the better understanding of process and application of scientific approach to address the queries of regulatory agencies. It has certainly improved my knowledge about research execution. I will definitely pursue my PG dissertation work using QbD approach.

Participation in the past events of QbD & DoE certification course:

◆ Research Scientist, Zydus Cadila, Ahmedabad
◆ Research Scientist, Alembic Pharmaceuticals Ltd., Vadodara
◆ Research Scientist, Vovantis Lab. Pvt. Ltd., Vadodara
◆ Faculty, PhD & PG Research Scholars, K. B. Institute of Pharmaceutical Education and Research, Gandhinagar
◆ PhD Research Scholar, Institute of Pharmacy, Nirma University, Ahmedabad
◆ Faculty, Maliba Pharmacy College, Bardoli
◆ PhD Research Scholar, Pharmacy Department, Saurashtra University, Rajkot
◆ Faculty & PhD Research Scholar, S. V. National Institute of Technology, Surat
◆ Faculty, Sigma Institute of Pharmacy, Vadodara
◆ Faculty & PG Research Scholar, Sankarsinh Vaghela Bapu Institute of Pharmacy, Gandhinagar