



**Report**  
**GUJCOST Sponsored “One day National**  
**Workshop on Basics of Experimental Design**



**17<sup>th</sup> February 2018, at Maliba Pharmacy College, Uka Tarsadia University, Bardoli**

GUJCOST Sponsored “One day National Workshop on Basics of Experimental Design” was organized at Maliba Pharmacy College, Bardoli on Saturday, 17<sup>th</sup> February 2018. Principal of Maliba Pharmacy College Dr. Shailesh A. Shah welcomed the participants and delegates and also gave information about Maliba Pharmacy College. The workshop was presided over by Dr. Dinesh R. Shah, Provost UTU. The convener of Workshop Dr. Ketan Ranch highlighted the importance, objectives and proceedings of Experimental design workshop. The emphasis was given on proper designing of experiments so that conclusions drawn from experiments would be reliable and valid. In his presidential address Dr. D.R Shah explained the importance of designing experiments considering all factors affecting response and he also emphasized that such designed experiments can then be patented. He also briefly gave an idea of knowledge dissemination and knowledge creation practices implemented at UTU. All the participants were welcomed by him too. After inaugural function a Vote of thanks was given by Dr. Furqan Maulvi coordinator of the workshop. The first scientific session was by Prof. Dr. Prashant Joshi, Director, Dept. of Management SRIMCA – Dean Faculty of Commerce & Management, Uka Tarsadia University, Bardoli. He gave lecture with a very simple and lucid explanation about Basics & Theory of Experimental Design. He has taken on various concepts related to basic characteristics of any experiment like randomization, comparison, replication and stratification. He also explained all key terminologies associated with DOE like variables, factors, response, runs and confounding variables etc. His lecture was more focused on concepts of experimental research designs. A fruitful discussion and interaction was held after his lecture whereby he gave insights on screening designs and dummy variables. This lecture was followed by second scientific session of Dr. Jayesh N Desai, B.Sc(chem), B.Sc(tech) MBA, MA, PGDRM, PhD, NET.: Director B.R.C.M. College of Business Administration, Veer Narmad South Gujarat University, Surat (Gujarat-India). He gave lecture on Research design with more emphasis on observational research designs. In his lecture the basic concepts related to cohort, cross-sectional

and case control study. All these 3 types of observational research design were well illustrated with relevant examples so that all participants could grasp it in proper way. Brain storming, critical question & answer session was held after his lecture specifically with queries from Physiotherapy domain. A delicious lunch was arranged after this session at girls hostel mess. The afternoon session was held at IBM Computer lab for hands on training with relevant software. All the necessary software were preinstalled for ready to use for participants. The afternoon session was started by Dr. Ketan Ranch for introducing the software and its action tabs & features. He had also taken various examples of simple comparative experiments for conducting t-test and ANOVA using software. An article published in Nature was discussed in his talk. There after another hand on session was conducted by Dr. Furqan Maulvi, M.Pharm. PhD., Assistant Professor, Maliba Pharmacy College, Uka Tarsadia University, Bardoli. He delivered hands on training on Response Surface Methodology – Optimization Design. The hands on Practice was given with a case study of Box-Behnken Design: Optimization of Aceclofenac Solid Dispersion (article published in Current drug delivery) and also on a Case study of 3 level full factorial design: Design and optimization of a novel implantation technology in contact lenses (article published in Acta Biomateriala). All the necessary parameters with their values along with their interpretations were very well explained by Dr. Maulvi. He also emphasized on publishing research work in peer reviewed journals whereby interpretation and applying experimental design plays an important role.

A winsome concluding address was given by the Dean of Faculty of Pharmacy Dr. Ashish Mishra in valedictory ceremony. He incentivized the students by saying never to fear failure of publishing your research work and must attempt to publish research work by learning through such workshop. He also expressed his gratitude to participants, GUJCOST and organizing team of workshop. He solicited the students to stay connected and contribute in shaping the new world with their research work. The speakers/ resource persons were honored with a memento and certificate from hands of Principal Dr. Shailesh A. Shah. All the participants were given participation certificates by guests of valedictory ceremony. The live feedback was taken from participants along with a written feedback for this workshop during valedictory ceremony. Dr. Ketan Ranch conveyed vote of thanks. Maliba Pharmacy College is grateful to GUJCOST and Uka Tarsadia University for their financial support to organize this National Workshop. There were a total of 100 participants registered for this workshop. The participants were from North

Maharashtra University, Jalgaon; SSR College of pharmacy Silvassa Pune University; MS Univeristy, Vadodara, Gujarat Technological University and Uka Tarsadia University. The workshop concluded by rising for national anthem. Thereafter all participants, students and faculty member had a high tea and took their leave. The workshop was anchored by Ms. Rutvi Vaidya and Ms. Jaimini Gandhi Maliba Pharmacy College.

