

Report On Guest Lecture On Statistical Skill Development-2023

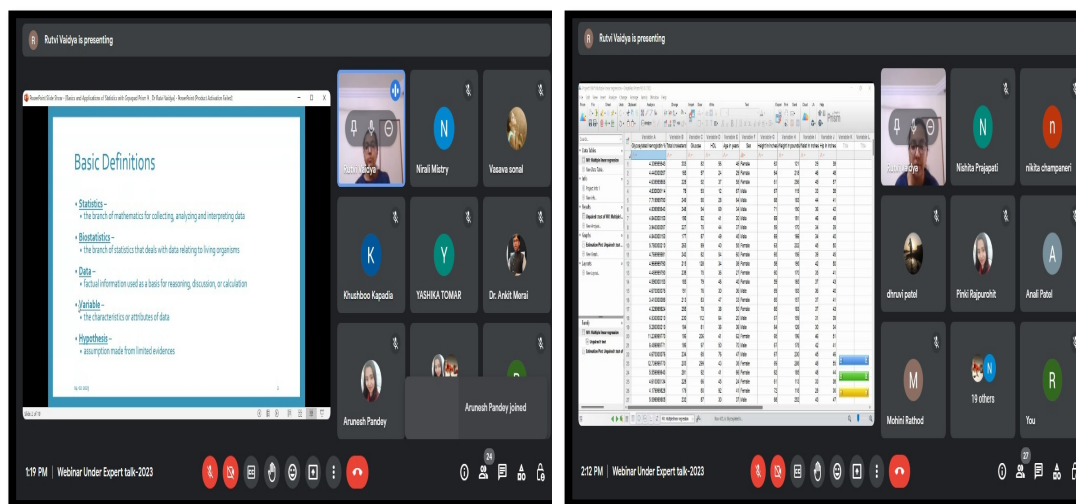
Event: Basic and application of Statistics using Graph Pad Prism 9 Software

Date & Venue: 4th February, 2023 virtual mode Google meet.

Guest/Speaker: Dr Rutvi Vaidya, Assistant Professor, Maliba Pharmacy College, Bardoli

No of Participants: 40

Summary Report: On 4th February, 2023 to enhance the skill on handling statistical software prism a guest lecture on virtual mode has been organized by our institute emphasizing the need for masters of students in their ongoing projects. Dr Vaidya explained the whole point of inferential statistics is to extrapolate from limited data to make a general conclusion. "Descriptive statistics" simply describes data without reaching any general conclusions. But the challenging and difficult aspects of statistics are all about reaching general conclusions from limited data. Dr Vaidya also shared that analyzing data requires many decisions. Parametric or nonparametric test? Eliminate outliers or not? Transform the data first? Normalize to external control values? Adjust for covariates? Use weighting factors in regression? All these decisions (and more) should be part of experimental design. When decisions about statistical analysis are made after inspecting the data, it is too easy for statistical analysis to become a high-tech Ouija board -- a method to produce preordained results, rather an objective method of analyzing data. The new name for this is p-hacking. Dr Rutvi shared when many hypotheses are tested at once, the problem of multiple comparisons makes it very easy to be fooled. If 5% of tests will be "statistically significant" by chance, you expect lots of statistically significant results if you test many hypotheses. It is only possible to correctly interpret statistical analyses when all analyses are planned, and all planned analyses are conducted and reported. However, these simple rules are widely broken.



Dr Rutvi Vaidya Delivered a Session on Statistical Skill Development

Prepared by: Dr Chirag Desai



Ms. Anali Patel Received Medal Trophy for securing 2nd place in news media

Prepared by: Dr Chirag Desai (Coordinator Soft Skill Development, Entrepreneurship Development Committee)