

Certificate Course in Pharmaceutical Statistics

- HIGHLIGHTS:**
- Unique course with focus on conceptual understanding of statistics
 - Course by Industry Expert with more than 10 years of experience
 - Designed for Pharma professionals, faculty and research scholars
 - Elaboration with practical examples and case studies
 - Explanation on data analysis and interpretation
 - Online sessions on weekends
 - Certificate of merit

- TUTOR:**
- Dr. Bhalchandra Vaidya (Ph.D., M.Tech, B.Pharm.)
Senior Manager (R&D),
Gennova Biopharmaceuticals Ltd., Pune.

- DURATION:**
- 24 hours (Online sessions)

- DATES & TIME:**
- Oct-Dec 2020 (*Exact dates and timing will be announced shortly*)

- CONTENTS*:**
- Introduction to statistics
 - Types of statistics (Descriptive and Inferential Statistics)
 - Importance of statistics in pharmaceutical research
 - Measures of central tendency
 - Measures of data dispersion
 - Standard normal distribution
 - Sampling distribution
 - Standard error of mean and margin of error
 - Introduction to probability
 - Central limit theorem,
 - Confidence interval, Confidence limits
 - Sample size determination
 - Introduction to hypothesis testing
 - Type I and Type II errors
 - Selection of suitable statistical test
 - Significance of p-value
 - Z-test,
 - t-test
 - ANOVA
 - Post-hoc tests for ANOVA
 - Common non-parametric tests
 - Writing statistical outcome in Thesis/ Project Closure Reports

* All examples will be demonstrated with the help of MS Excel.