



Workshop on Statistical Techniques in Biological and Medical Sciences STBMS-2018

Interactive Lectures & Lab sessions by Experts On
Statistical Tools, Techniques and Their Applications

**June 04 - 09
2018**

Topics to be covered

- Descriptive and inferential Statistics
- Correlation and Regression: Predictors Testing, MLR, Multicollinearity, Variance inflation factor (VIF), Logistic regression
- Hypothesis Testing- Parametric and Non-Parametric, Factor, Cluster and Principal Component Analysis (PCA)
- Survival analysis and Stochastic Modelling, Multiple comparison procedures, Order Restricted Inference
- One-two and three way ANOVA, ANOVA with repeated trials
- CRD, RBD, LSD, IBD, BIBD, Factorial Designs
- Case Studies on Biological and Biomedical Data
- Lab work using Excel, SPSS, and R

Speakers

Dr. Amar Nath Gill,
PU, Chandigarh

Dr. Suresh Sharma,
PU, Chandigarh

Dr. S.K. Gupta,
IIT, Roorkee

Workshop Coordinators

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About JUIT

JUIT is spread over 25 acres of lush green picturesque slopes of Wagnaghat, in District Solan of Himachal Pradesh, creating a tranquil environment that can heighten the spirit and energy level of all learners and inspire them to optimize their learning efforts.



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▶ **About the Workshop:** Biostatistics has become a defined branch of science that uses an intricate combination of Statistics, Probability, Mathematics and Computation to model and solve real life problems in biological and biomedical sciences. As a discipline designed to yield information, biostatistics may also be considered as a highly-developed stream which in turn forms part of the developing and expanding field of bioinformatics. Consequently, biostatistics draws quantitative methods from fields including statistics, operations research, economics, and mathematics in general; and it is applied to research questions in fields such as public health (including epidemiology, nutrition, environmental health, and health services research), genomics, proteomics, population genetics, medicine, and ecology. Research in medicine and public health has been both a beneficiary of this new methodology and a source of new problems. It is anticipated that this workshop will help the biologists, biotechnologists, biomedical scientists and students from all these streams to gain insight into statistical analyses. It will also help engineers, mathematicians, statisticians, and computer scientists to explore new dimensions for their academic and research activities.



▶ Application Procedure:

Send your application to the given email in the provided application form. Last date of submission of application is May, 15, 2018.

▶ Registration Fees and Accommodation:

Registration fee includes all working lunches/tea during the program and registration kit along with study material. Accommodation on sharing basis in JUIT hostels will be facilitated.

Participants	Registration Fee	
	Without accommodation (Up-to May 15, 2018)	With accommodation (Up-to May 15, 2018)
Students (UG/PG)	2500/-	3500/-
Research Fellows	3000/-	4000/-
Faculty	4000/-	5000/-
Industry/ Others	7000/-	8000/-

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▶ **01st Feb, 2018** (Registration Opens)

▶ **15th May, 2018** (Registration Closes)