



Workshop on Statistical Techniques in Biological and Medical Sciences STBMS-2016

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

**June 13 - 18
2016**

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. Ashis Sen Gupta,

ISI, Kolkata

Dr. A. K. Aggarwal,

PGIMER, Chandigarh

Dr. Amar Nath Gill,

Dr. Suresh Sharma,

PU, Chandigarh

Dr. Athar Ali Khan

AMU, Aligarh

Dr. Parminder Singh,

GNDU, Amritsar

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.



www.juit.ac.in/stbms_2016

Department of Mathematics &

Department of Biotechnology and Bioinformatics

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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, 31, 2016.

▶ 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 subject to availability, on the payment of Rs 1000 per head for the programme for students (UG/PG) & Research Fellows and 2000 per head for Faculty & candidate from industry.

Participants	Registration Fee	
	Early Bird (Up-to May 15, 2016)	May 16 to May 31, 2016
Students (UG/PG)	2000/-	2500/-
Research Fellows	3000/-	3500/-
Faculty	4000/-	4500/-
Industry/ Others	7000/-	7500/-

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▶ **15th March, 2016** (Registration Opens)

▶ **15th May, 2016** (Early Bird Registration Closes)

▶ **31st May, 2016** (Registration Closes)