



Statistical Techniques in Biological and Medical Sciences

STBMS-2018

June 04-09, 2018

Technical Program

STBMS-2018: Schedule (June, 04-09, 2018)			
Session	Time	Topic	Faculty
Day-1 (04.06.2018)			
Pre-Lunch Session	9:00-10:00	Registration	
	10:00-10:40	Inauguration	
	10:40-11:00	High Tea	
	11:00-12:30	Lect-1 & Discussion, Topic: Introductory lecture on statistics and its applications in Biology and medicine, Descriptive and Inferential problems: An Introduction and use	Dr. Suresh K. Sharma
	12:30-14:00	Working Lunch	
Post-Lunch Session	14:00-15:00	Lect-2 & Discussion, Topic: Correlation and Regression: Assumptions, Test for regression coefficient, Diagnostic for Multicollinearity	Dr. Suresh K. Sharma
	15:00-15:15	Refreshments & Afternoon Tea	
	15:15-17:00	Lab: Introductory Lab session and Assignment Using SPSS	Dr. Suresh K. Sharma
Day-2 (05.06.2018)			
Pre-Lunch Session	9:30-10:45	Lect-3 & Discussion, Topic: Logistic Regression, MLR, Odds ratio, risk ratio, and ROC curve.	Dr. Suresh K. Sharma
	10:45-11:00	Tea Breaks & Refreshments	
	11:00-12:30	Lect-4 & Discussion, Topic: Hypothesis Testing I- Parametric (t-test, One-Way, Two-way and Repeated Measures ANOVA)	Dr. Suresh K. Sharma
	12:30-14:00	Working Lunch	
Post-Lunch Session	14:00-15:00	Lect-5 & Discussion, Topic: Cohort Case-control studies, Cross-sectional epidemiological studies	Dr. Suresh K. Sharma
	15:00-15:15	Refreshments & Afternoon Tea	
	15:15-17:00	Lab Session: Assignment Using SPSS (Dr. Suresh K. Sharma)	
Day-3 (06.06.2018)			
Pre-Lunch Session	9:30-10:45	Lect-6 & Lab, Topic: SPSS tutorial session on statistical analyses: Part-I.	Dr. R.S. Durai
	10:45-11:00	Tea Breaks & Refreshments	
	11:00-12:30	Lect-7 & Lab, Topic: SPSS tutorial session on statistical analyses: Part-II.	Dr. R.S. Durai
	12:30-14:00	Working Lunch	
Post-Lunch Session	14:00 -15:00	R Lab session for statistical analysis of biological data with afternoon tea.	



Statistical Techniques in Biological and Medical Sciences

STBMS-2018

June 04-09, 2018

Technical Program

Day-4 (07.06.2018)			
One Day Excursion (Contributory)			
Day-5 (08.06.2018)			
Pre-Lunch Session	9:30-10:45	Lect-8 & Discussion, Topic: Hypothesis Testing II- Non-Parametric (Analogous to parametric testing, Chi-Square tests, K-S test).	Dr. Amar Nath Gill
	10:45-11:00	Tea Breaks & Refreshments	
	11:00-12:30	Lect-9 & Discussion, Topic: Design of experiments: Basic principles, CRD (completely randomized design), RBD (Randomized block designs), Post-hoc tests.	Dr. Amar Nath Gill
	12:30-14:00	Working Lunch	
Post-Lunch Session	14:00-15:00	Lect-10 & Discussion, Topic: Principal component analysis (PCA), Factor analysis, Linear Discriminant analysis (LDA), Cluster analysis.	Dr. Amar Nath Gill
	15:00-15:15	Refreshments & Afternoon Tea	
	15:15-17:00	Lab Session: Example Details, Handouts, Data files and Workshop Assignments	
Day-6 (09.06.2018)			
Pre-Lunch Session	9:30-10:45	Lect-11 & Discussion, Topic: Idea of Multiple comparison procedures and pair wise comparison and comparison with best & control.	Dr. Amar Nath Gill
	10:45-11:00	Tea Breaks & Refreshments	
	11:00-12:00	Lect-12 & Discussion, Topic: Ranking and Selection Problems, Order restricted comparison procedures.	Dr. Amar Nath Gill
	12:00-13:00	Feedback & Valedictory function	
Lunch Session	13:00 - 14:00	Farewell Lunch and Bye Bye	

Dr. Tiratha Raj Singh & Dr. Neel Kanth

Coordinators: STBMS-2018

Contact: stbms2018@gmail.com