

I – Academic Planner

A. Teaching Plan (Year: 2016, Semester: ODD SEM-JUL to NOV.)

Teacher's Name DR. VANDANA SARIN WALIA Department STATISTICS

S. No.	UPC	Paper Name	Core/AEC C/GE/SEC	Topic/Unit	Start Date	End Date
1.	237503	Design of Experiments	STH-503	General Linear models, estimability and BLUE, method of least squares, Gauss- Markoff theorem, estimation of error variance, distribution of quadratic forms for standard normal variates, tests of linear hypothesis..	Week 1-	2
				Analysis of variance: One-way and two-way classified data with $m (\geq 1)$ observations per cell for fixed effects models. Analysis of Covariance: One-way and two-way classified data with one concomitant variable. Practical work	Week 2-	4
				Straight Line relationship between two variables, precision of the estimated regression. Examination of the regression equation. Lack of fit and pure error. Fitting a straight line in matrix form. variance and covariance of b_0 and b_1 from the matrix calculation. Variance of Y using the matrix development. Practical work.	Week 5	7
				Orthogonal columns in the X-matrix. partial F-Test and Sequential F-Tests. Selection of best regression equations by step wise procedure. Bias in regression estimates. Residuals, Polynomial models. orthogonal polynomials. Practical work.	Week 8	11
2.	32375301	Basics of Statistical Inference	STAT-GE-III	ANOVA one-way and two-way classification, Practical Work.	Week 1-	4
				Basic principles of DOE, treatment, plot and block. Analysis of CRD, RBD, Bioassay. Practical Work.	Week 5-	7
				Tests for the significance of correlation coefficient, Sign test for median, Sign test for symmetry, Wilcoxon two sample test. Practical Work. Revision and Problem Solving	Week 8-	10
3.		Statistical data analysis using software packages	STAT-SEC-1	Practical work 1		
				Practical work 2		
				Practical work 3		
				Practical work 4		
				Practical work 5, 6		

B. Internal Assessment: House Exam (Test/Presentation etc.) & Assignment*

Course Code	Course Name	Unique Paper Code	Topic Name	Day and Date	Date/s of Exhibiting the Assessment Sheet to students, Discussing the marks, Returning/Retaining
568	Statistics	237503	UNIT I-III	1 st week of Oct. 2016	NA
568	Statistics		UNIT I-IV (Assignment)	3 rd week of Oct. 2016	NA
568	Statistics	32375301	UNIT I-II	1 st week of Oct 2016	NA
568	Statistics		UNIT I-IV (Assignment)	3 rd week of Oct. 2016	NA
568	Statistics	STAT-SEE1	Practical Test	1 st week of Oct 2016	NA

*Marks of the Internal Assessment to be submitted to the College 15 days before the last working day of every semester