

I – Academic Planner

A. Teaching Plan (Year: 2019, Semester: ODD-JULY to NOV.)

Teacher's Name DR. VANDANA SARIN WALIA Department STATISTICS

S. No.	UPC	Paper Name	Core/AECC /GE/SEC	Topic/Unit	Start Date	End Date
1.	32377905	Time Series Analysis	STAT-DSE 1(A)	Introduction to times series data, application of time series from various fields, Components of a times series, Decomposition of time series.	22 nd July, 2019	25 th July, 2019
				Estimation of trend by free hand curve method, method of semi averages, fitting mathematical curve and growth curves. Practical work.	29 th July, 2019	1 st Aug. 2019
				Estimation of trend by method of moving averages. Detrending: Effect of elimination of trend on other components of a time series. Practical work.	6 th Aug., 2019	19 th Aug., 2019
				Estimation of seasonal component by the methods of: Simple averages, Ratio to Trend, Ratio to Moving Averages and Link Relative method. Deseasonalization. Practical work.	20 th Aug., 2019	26 th Aug. 2019
				Harmonic Analysis. Variate difference method. Practical work.	27 th Aug., 2019	4 th Sep., 2019
				Stationary Time series, Weak stationarity, autocorrelation function and the correlogram. Special Processes: Moving-average (MA) process and Autoregressive (AR) processes. Estimation of the parameters of AR (1) and AR (2). Introduction to ARMA and ARIMA models. Practical work.	9 th Sep., 2019	24 th Sep., 2019
				Introduction to methods of Forecasting a time series. Exponential smoothing. Practical work.	25 th Sep., 2019	3 rd Oct. 2019
				Short-term forecasting methods: Brown's discounted regression, Box-Jenkin method, Bayesian forecasting. Practical Work. Group Project Presentations	21 st Oct., 2019 6 th Nov., 2019	8 th Nov. 2019
2.	32375301	Basics of Statistical Inference	STAT-GE-III	ANOVA one-way and two-way classification, Practical Work.	1 st Aug. 2019	20 th Aug. 2019
				Basic principles of DOE, treatment, plot and block. Analysis of CRD, RBD, Bioassay. Practical Work.	22 nd Aug, 2019	6 th Sep., 2019
				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	13 th Sep., 2019 1 st Nov., 2019	31 st Oct. 2019 7 th Nov., 2019
3.	32371101	Descriptive Statistics (Practical Lab using MS EXCEL)	STAT-C-101	Presentation of data in: a) Discrete & Continuous frequency table b) Cumulative frequency table	2 nd Aug. 2019	9 th Aug. 2019
				Graphical representation of data- a) Frequency curve, frequency polygon and histogram b) Ogives	16 th Aug. 2019	16 th Aug. 2019
				Measures of Central tendency: a) AM: Formulae and Change of Origin and Scale and b)Median and partition values: Formulae and Graphically c)Mode: Formulae, Graphically and By grouping	23 rd Aug. 2019	30 th Aug. 2019
				Measures of Dispersion - a) Quartile deviation : formulae and graphically b) Mean Deviation c) Standard deviation and variance: Formulae and Change of origin & Scale	6 th Sep. 2019	6 th Sep. 2019
				Coefficient of dispersion and variation. Combined mean and combined variance	20 th Sep. 2019	20 th Sep. 2019
				Raw moments. Moments about any arbitrary point . Central Moments	27 th Sep. 2019	27 th Sep. 2019
				Moments using relation between Raw moments, Moments about any arbitrary point and Central Moments Correct moments involving wrong data	4 th Oct. 2019	4 th Oct. 2019
				Skewness based on mean, median, mode and standard deviation. Skewness and kurtosis based on moments	18 th Oct., 2019	18 th Oct., 2019
				Problem based on missing frequencies	25 th Oct., 2019	25 th Oct., 2019
Theory of attributes- a) word problems in the form of class frequencies b) Based on Fundamental set of class frequencies c) Association and independence of attributes.	1 st Nov. 2019	1 st Nov. 2019				

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	32377905	UNIT I - III (Test)	Monday, 21 st Oct., 2019	Thursday, 31 st Oct., 2019 (Returning)
568	Statistics	32377905	UNIT I-IV (Project)	Wednesday, 6 th Nov. 2019 to Friday, 8 th Nov. 2019	Wednesday, 6 th Nov. 2019 to Friday, 8 th Nov. 2019 (Returning)
568	Statistics	32375301	UNIT III-IV	Monday, 21 st Oct, 2019	Friday, 1 st Nov., 2019
568	Statistics	32371101	UNITS I-IV	Friday, 8 th Nov. 2019	Monday, 11 th Nov., 2019

