

## I – Academic Planner

### A. Teaching Plan (Year : 2018 Semester: Even)

Teacher's Name: Ms. Savitri Sharma Department: STATISTICS

S. No.	UPC	Paper Name	Core/AEC C/GE/SE C	Topic/Unit	Start Date	EndDate
1	32371602	Multivariate Analysis and Non-Parametric Methods	Core	Basic Concepts: random vector, pdf, mean vector, dispersion matrix, distribution function, marginal and conditional distribution of random vector. Bivariate Normal Distribution (BVN), Marginal and Conditional Distribution of BVN, mgf of BVN. (Theory+ Practical work)	Week 1	Week 3
				Multivariate Normal Distribution (MVN), Marginal and Conditional Distribution of MVN, mgf of MVN, Statistical Independence, Distribution of linear combination of normally distributed variates, Characteristic function (Theory+ Practical work)	Week 4	Week 6
				Sampling Distribution of X and S. Multiple and Partial Correlation Coefficient and Plane of Regression. (Theory+ Practical work)	Week 7	Week 8
				Data Reduction and Classification Techniques: Principal Component Analysis, Factor Analysis, Discriminant Analysis. (Theory+ Practical work)	Week 9	Week 11
				SPRT for simple vs. Simple hypotheses, Relations among $\alpha$ , $\beta$ , A and B. Determination of A and B in practice, Wald's Identity, ASN and OC functions with examples based on Normal (for Mean when Variance specified and for Variance when Mean specified), Exponential, Binomial and Poisson distributions.	Week 12	Week 13
				Nominal, Ordinal Interval, Ratio scales of measurement, Advantages and disadvantages of non-parametric tests vis a vis Parametric tests, Theory and application of Non-Parametric Tests: - Kolmogorov-Smirnov one sample test, One sample run test for randomness, Sign test, Median Test, Mann-Whitney U test, Wald Wolfowitz Run test, Kruskal Wallis test. (Theory+ Practical work)	Week 14	Week 15
				Difficulties and Presentations	Week 16	Last working day
2	32371201	Probability and Probability Distributions	Core	Independence of random variables. Univariate transformations. Expectation of random variables and its properties	Week 1	Week 3
				Discrete Probability distributions along with their characteristic properties and limiting/approximation cases.	Week 4	Week 7
				Binomial and Poisson distributions. (Practical work). (Theory+ Practical work)	Week 8	Week 11

				Uniform, Geometric, Negative Binomial distributions. Hypergeometric distributions	Week 12	Week 14
				Difficulties and presentations	Week 15	Last Working day

**B. FDP/Seminar/Workshops/Lectures to be attended and/or to be conducted by Teachers**

<b>Event Topic</b>					
<b>Type / Nature (FDP/Webinar/Workshop etc.)</b>		<b>Seminar</b>			
<b>Organizing In-charge</b>		<b>Kirori Mal College</b>			
<b>Details regarding invited Resource Person</b>					
<b>Nature of Participation (e.g. Invited Speaker, Participant etc.)</b>		<b>Participant</b>			
<b>Date/s</b>		<b>Timing/s</b>		<b>Mode</b>	<b>Online/ Hand - on</b>
<b>Event Topic</b>					
<b>Type / Nature (FDP/Webinar/Workshop etc.)</b>		Seminar			
<b>Organizing In-charge</b>		Kirori Mal College			
<b>Details regarding invited Resource Person</b>					
<b>Nature of Participation (e.g. Invited Speaker, Participant etc.)</b>		Participant			
<b>Date/s</b>		<b>Timing/s</b>		<b>Mode</b>	

**C. 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	B.Sc (Hons) Statistics	32371602	(TEST) SPRT	March 2019	
568	B.Sc (Hons) Statistics	32371602	(TEST) Multivariate analysis		
568	B.Sc (Hons) Statistics	32371201	(TEST) Multiple and Partial correlation	March 2019	
568	B.Sc (Hons) Statistics	32371201	Regression analysis		

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

**D. Organization of Department/College Society Meetings by Staff Advisor/Convener**

Department/Society	Meeting Date	Purpose

**E. College Functions**

College Function	Function Date	Role to be played

## For Departments

### A. Department activities for students – Election/Freshers/Welcome/Farewell/Department Seminars/Society functions

Event	Date	Timing	Venue	Event In-charge / Supervisor
Department Election	August 2018			Dr. Shrawan Kumar
Fresher's Welcome				
Farewell				
Department Society functions				
Department Seminars				
Any Other ( )				

### B. Outstation Field Visit for Students

Project Name / Paper Name			
Destination		Travel Mode	
Departure Month		Return	
Faculty-in-Charge		Number of Students going	

**C. FDP/Seminar/Workshops/Lectures to be attended and/or to be conducted by Department**

<b>Event Topic</b>					
<b>Type / Nature (FDP/Webinar/Workshop etc.)</b>					
<b>Organizing In-charge</b>					
<b>Details regarding invited Resource Person</b>					
<b>Nature of Participation (e.g. Invited Speaker, Participant etc.)</b>					
<b>Date/s</b>		<b>Timing/s</b>		<b>Mode</b>	