

I – Academic Planner

A. Teaching Plan (Year : 2020, Semester: Odd)

Teacher's Name DR. SURENDRA KUMAR Department STATISTICS

S. No.	UPC	Paper Name	Core/AECC/GE/SEC	Topic/Unit	Start Date	EndDate
1	32371502	STATISTICAL COMPUTING USING C	CORE	Theory and Practical Work 1. Overview of C, Variables and Data Types 2. Operations and Expressions 3. Managing Input and Output Operations 4. Decision Making and Branching 5. Decision Making and Looping 6. Arrays 7. Character arrays, Strings and File Management in C 8. User -Defined Functions 9. Structure and Pointers 10. Dynamic Memory Allocations and The Preprocessor.	10/8/20 24/8/20 7/9/20 14/9/20 21/9/20 5/10/20 12/10/20 26/10/20. 9/11/20 23/11/20.	22/8/20 5/9/20 12/9/20. 19/9/20 3/10/20 10/10/20 24/10/20 7/11/20 21/11/20 28/11/20
2	32375301	Basics of Statistical Inference	GE	Theory and Practical Work 1. Analysis of Variance 2. Design of Experiment 3. Non-Parametric Test	10/8/20 12/10/20 2/11/20	10/10/20 31/10/20 28/11/20

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

Event Topic	
Type / Nature (FDP/Webinar/Workshop etc.)	
Organizing In-charge	

Details regarding invited Resource Person					
Nature of Participation (e.g. Invited Speaker, Participant etc.)					
Date/s		Timing/s		Mode	

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	BSc.(H), Statistics	32371502	Class Test	09/11/2020	15/11/20- 20/11/2020
568	BSc.(H), Statistics	32375301	Assignment	20/11/20	25/11/20- 28/11/2020
568	BSc.(H), Statistics -GE	32375301	Class Test	6/11/20	10/11/20-12/11/2020
568	BSc.(H), Statistics -GE	32375301	Assignment	10/11/20	16/11/20-18/11/2020

***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

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E. College Functions

College Function	Function Date	Role to be played

I – Academic Planner

A. Teaching Plan (Year : 2021 Semester: Even)

Teacher's Name DR. SURENDRA KUMAR Department STATISTICS

S. No.	UPC	Paper Name	Core/A ECC/G E/SEC	Topic/Unit	Start Date	End Date
1	32371403	Statistical Quality Control	CORE	Theory and Practical Work Unit-I Unit-II Unit-III Unit-IV	2/1/21 27/1/21 24/2/21 30/3/21	25/1/21 22/2/21 23/3/21 30/4/21
2	32375902	Applied Statistics	GE	Theory and Practical Work Unit –I Unit-II	15/1/21 24/02/21	22/2/21 30/05/21 1
3	32371202	Algebra	CORE	Practical Work For a real Skew Symmetric matrix S, show that matrix A defined by $(I-S)(I+S)^{-1}$ is an orthogonal matrix, Reducing a Quadratic Form to its canonical form and finding its rank. Finding the product of two matrices by considering partitioned matrices, finding inverse of a matrix by partitioning and finding Generalized Inverse of a matrix and symmetric generalized inverse of a matrix. To show that matrix A defined as $A = (I_n - X(X'X)^{-1}X')$ is idempotent. Also, determine its rank; Repeat the process by finding a generalized inverse of $X'X$ if inverse does not exist. Find XGX' for any X of order $n \times k$, where G is generalized inverse and show that XGX' is invariant with respect to G. To find whether a given set of vectors is linearly dependent or linearly independent.	12/04/21 10/05/21 07/06/21 19/07/21	8/05/21 05/06/21 1 17/07/21 1 31/08/21 1
4	32371401	Statistical Inference	CORE	Practical Work Unit-I Unit-II Unit-III Unit-IV	18/01/21 03/02/21 24/02/21 16/03/21	02/02/21 1 22/02/21 1 07/03/21 1 30/04/21 1

5	32373902	Software R	SEC	<p>Practical Work Introduction to R, Installation of packages and modules, loading of data, playing with arithmetic expressions. Introduction to data types viz. data frame, matrix, list and other inbuilt functions along with usage.</p> <p>Commands and practical based on Graphical representation and interpretation viz. bar-plot, pie-chart, and box plot, stem-leaf, histograms (equal class intervals and unequal class intervals), frequency polygon, ogives with graphical summaries of data.</p> <p>Generate automated reports giving detailed descriptive statistics. Practical work.Import data, code editing, Scatter plot; correlation and lines of regression. Curvilinear regression.</p> <p>Generate automated reports giving detailed descriptive statistics. Practical work.Import data, code editing, Scatter plot; correlation and lines of regression. Curvilinear regression.</p> <p>Application problems based on fitting of suitable distribution. Practical work.</p> <p>Sampling procedures. Q-Q plot, Multiple Regression. Practical work. Basics of statistical inference in order to understand hypothesis testing, compute p-values and confidence intervals.</p> <p>Simple analysis and create and manage statistical analysis projects. And presentations Doubts and presentation</p>			9/01/21
						04/01/21	16/01/21
							1
						11/01/21	30/01/21
							1
						18/01/21	13/02/21
							1
						1/02/21	20/03/21
						15/02/21	1
						22/03/21	10/04/21
							1
						12/04/21	17/04/21
						19/04/21	1
							30/0/21

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568	BSc.(H), Statistics	32371403	Assignment(Quality Control, Process Control and Product Control)	15/03/2021 Monday	20/3/21-25/3/21
568	BSc.(H), Statistics	32371403	Practical Exam	26/04/21 Monday	-
568	BSc.(H), Statistics	323 75902	Assignment (Statistical Quality Control and Demography()	23/3/21 Tuesday	2/4/21-5/4/21
568	BSc.(H), Statistics	32375902	Practical Exam	27/4/21 Tuesday	-

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