



BHS Higher Education Society

VIJAYA COLLEGE

Affiliated to Bengaluru City University

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Conferred "College with Potential for Excellence" by the UGC

RV Road, Basavanagudi

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ACADEMIC PLANNER & UNITIZATION OF SYLLABUS

ACADEMIC YEAR/SEMESTER		2023-24	1 Semester B.Sc
DEPARTMENT		STATISTICS	
SUBJECT/PAPER		S101 – Descriptive Statistics	
MONTH - 1			
WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
1	1	Definition and scope of Statistics	N V P
	2	Various definitions of Statistics	N V P
	3	Statistics in Singular & Plural sense	N V P
	4	Concept of Population and Samples	N V P
2	1	Sampling techniques	N V P
	2	Method of drawing random samples from Finite and Infinite population	N V P
	3	Simple, Stratified, Systematic and Cluster sampling	N V P
	4	Measures of Central Tendency:	RP
3	1	Types of data, data collection methods	N V P
	2	Classification, Significance and types	N V P
	3	Mean, weighted mean, trimmed mean,	RP
	4	Median, Mode,	RP
4	1	Tabulation, types of tables, creation of blank table and table with numerical values.	N V P
	2	Frequency distribution, significance, definition and types	N V P
	3	Geometric and harmonic means, properties, merits and limitations, relation between these measures.	RP



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	4	do	RP
TEST 1			

MONTH -2			
WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
1	1	Construction of Univariate frequency distribution.	N V P
	2	Construction of Bivariate frequency distribution, Marginal and Conditional distributions.	N V P
	3	Partition values	RP
	4	do	RP
2	1	Cumulative frequency distributions	N V P
	2	Graphical representation – Histogram, Frequency Polygon	N V P
	3	Measures of Dispersion: Range, Quartile deviation,	RP
	4	Mean deviation,	RP
3	1	Graphical representation – Histogram, Frequency Curve, Ogives.	N V P
	2	Graphical location of Mode, Partition values.	N V P
	3	Standard deviation and their relative measures.	RP
	4	do	RP
4	1	Bivariate data and Introduction to Correlation analysis	N V P
	2	Karl Pearson's coefficient of Correlation (r) and interpretation.	N V P
	3	Moments, Skewness and Kurtosis. Quantiles and measures based on them.	RP
	4	Do	RP



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MONTH -2

WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
TEST 2			

MONTH -3

WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
1	1	Properties of r , definition and derivation	N V P
	2	Spearman's Rank correlation (ρ), need significance.	N V P
	3	Box Plot.	RP
	4	Analysis of Categorical Data: Contingency table,	RP
2	1	Properties of ρ , significance and need	N V P
	2	Method of least squares, significance and need	N V P
	3	independence and association of attributes,	RP
	4	measures of association - odds ratio, Pearson's and Yule's measure.	RP
3	1	Fitting a straight line or linear trend equation	N V P
	2	Fitting a Non-linear trend equation	N V P
	3	Multiple linear regression (Three Variables only),	RP
	4	<i>Residual variance. Multiple and partial correlation coefficients.</i>	RP
4	1	Fitting of Exponential trend equations	N V P



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MONTH -3

WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
	2	Linear Regression analysis, need and significance	N V P
	3	Residual variance.	RP
	4	Multiple and partial correlation coefficients.	RP

MONTH - 4

WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
1	1	Regression coefficients, properties	N V P
	2	Regression lines or equations, properties	N V P
	3	Multiple and partial correlation coefficients.	RP
	4	Revision	RP
2	1	Angle between two regression lines and interpretation.	N V P
	2	Coefficient of determination	N V P
	3	Revision	RP
	4	Revision	RP



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MONTH - 4

WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
3	1	Linear Correlation and Regression analysis of Bivariate data.	N V P

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ACADEMIC YEAR/SEMESTER	2023-24	BDA	
DEPARTMENT	STATISTICS		
SUBJECT/PAPER	BUSINESS STATISTICS – I		
MONTH - 1			
WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
1	1	Introduction to Statistics	N V P
	2	Various definitions and examples	N V P
	3	DECOVA frame work	N V P
	4	Primary and Secondary data	N V P
2	1	Census vs Sampling methods	N V P
	2	Types of sampling and their significance	N V P
	3	Classification – significance, types	N V P
	4	Tabulation – type of tables	N V P
3	1	Problems on Tabulation	N V P
	2	Construction of blank tables	N V P
	3	Construction of tables with numerical values	N V P
	4	Construction of tables with numerical values	N V P
4	1	Frequency distribution – types, significance	N V P



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	2	Construction of Univariate frequency distribution	N V P
	3	Discrete and continuous frequency distributions	N V P
	4	Frequency density, Relative frequency	N V P
TEST 1			

MONTH -2			
WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
1	1	Bivariate frequency distribution	N V P
	2	Marginal frequency distributions	N V P
	3	Conditional frequency distribution	N V P
	4	Problems on frequency distributions	N V P
2	1	One dimensional diagram	N V P
	2	Simple bar diagrams	N V P
	3	Subdivided bar diagrams	N V P
	4	Introduction to probability	R P
3	1	Percentage bar diagrams	N V P
	2	Multiple and Deviation bars	N V P
	3	Pie diagrams	N V P
	4	Various definitions and examples relating to probability	R P
4	1	Central tendency – Arithmetic Mean	N V P
	2	Combined Mean, Properties of AM	N V P



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MONTH -2			
WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
	3	Geometric Mean, problems	N V P
	4	Set theory – Introduction, types and operations	R P
TEST 2			

MONTH -3			
WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
1	1	Median, properties and problems	N V P
	2	Mode, properties and problems	N V P
	3	Partition values – Quartiles	N V P
	4	Problems on probability	R P
2	1	Partition values – Deciles	N V P
	2	Partition values – Percentiles	N V P
	3	Measures of dispersion – Mean deviation	N V P
	4	Problems on definition of probability	R P
3	1	Quartile deviation	N V P
	2	Standard deviation	N V P
	3	Coefficient of variation	N V P



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MONTH -3

WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
	4	Addition theorem on probability (ME events)	R P
4	1	Skewness – Definition and types	N V P
	2	Karl pearson's coefficient of skewness	N V P
	3	Bowley's coefficient of skewness	N V P
	4	Addition theorem on probability (Non ME events)	R P

MONTH -3

WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
1	1	Median, properties and problems	N V P
	2	Mode, properties and problems	N V P
	3	Partition values – Quartiles	N V P
	4	Problems on Addition theorem	R P
2	1	Partition values – Deciles	N V P
	2	Partition values – Percentiles	N V P
	3	Measures of dispersion – Mean deviation	N V P
	4	Problems on Addition theorem continued	R P
3	1	Quartile deviation	N V P
	2	Standard deviation	N V P
	3	Coefficient of variation	N V P



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MONTH -3

WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
	4	Problems on Addition theorem continued	R P
4	1	Skewness – Definition and types	N V P
	2	Karl pearson's coefficient of skewness	N V P
	3	Bowley's coefficient of skewness	N V P
	4	Problems on Probability	R P

MONTH -3

WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
1	1	Correlaltion – types, Significance, Scatter diagram	N V P
	2	Karl Pearson'd coefficient of correlation	N V P
	3	Properties of correlation coefficient	N V P
	4	Revision on Probability	R P
2	1	Correlation for Bivariate data	N V P
	2	Revision of previous year question papers	N V P
	3	Revision of previous year question papers	N V P
	4	Revision of previous year question papers	R P

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ACADEMIC YEAR/SEMESTER	2023-24	IIIsem B.sc
DEPARTMENT	STATISTICS	
SUBJECT/PAPER	STATISTICS/STATISTICAL	



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INFERENCE-I

MONTH -1

WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
OCTOBER 2023 (classes begin from 09/10/2023 1	1	Discrete distributions: Negative Binomial -definition through probability mass function, mean, variance, moments, m.g.f., other properties and applications.	R P
	2	Negative Binomial -definition through probability mass function, mean, variance, moments, m.g.f., other properties and applications.	R P
	3	Continuity and Differentiability, introduction to partial derivatives, Jacobain.	N V P
	4	Test for convergence of Sequences	N V P
2	1	Negative Binomial -definition through probability mass function, mean, variance, moments, m.g.f., other properties and applications.	R P
	2	Hypergeometric, -definition through probability mass function, mean, variance, moments, m.g.f., other properties and applications.	R P
	3	Test for convergence of sequences	N V P
	4	Test for convergence of Series	N V P
3	1	Hypergeometric, -definition through probability mass function, mean, variance, moments, m.g.f., other properties and applications.	R P
	2	Hypergeometric, -definition through probability mass function, mean, variance, moments, m.g.f., other properties and applications.	R P
	3	Test for convergence of series	N V P
	4	Test for convergence of Series	
NOV- 2023	1	Definitions of random sample, parameter and statistic, sampling distribution of sample mean, standard error of sample mean, sampling distribution of sample variance, standard error of sample variance.	R P
	2	Definitions of random sample, parameter and statistic, sampling distribution of sample mean, standard error of	R P



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		sample mean, sampling distribution of sample variance, standard error of sample variance	
	3	Marginal and Conditional distributions	N V P
	4	Problems on Marginal and conditional distributions	N V P
TEST 1			

MONTH -2			
WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
2	1	Definitions of random sample, parameter and statistic, sampling distribution of sample mean, standard error of sample mean, sampling distribution of sample variance, standard error of sample variance	R P
	2	Exact sampling distributions: Chi square distribution-mean, variance, moments, mode, additive property.	R P
	3	Conditional expectation definitions, related theorems	N V P
	4	Moments and Correlation	N V P
3	1	Chi square distribution- mean, variance, moments, mode, additive property.	R P
	2	Student's and Fisher's t-distribution- mean, variance, moments and limiting form of t distribution	R P
	3	Distribution function of random variable	R P
	4	Transformation of variable techniques	N V P
4	1	Student's and Fisher's t-distribution- mean, variance, moments and limiting form of t distribution	N V P
	2	Student's and Fisher's t-distribution- mean, variance, moments and limiting form of t distribution	P R
	3	Transformation of variable techniques, continued	N V P



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MONTH -2			
WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
	4	Chebyshev's inequality statement and proof	N V P
DEC-2023	1	Snedecor's F-distribution: mean, variance and mode. Distribution of 1/F.	R P
	2	Introduction to simulation. Generation of random observations from Uniform, Exponential, Normal, Binomial, Poisson distributions	R P
	3	Significance of Chebyshev's inequality and its applications	N V P
	4	Weak law of large numbers	N V P
TEST 2			

MONTH -3			
WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
2	1	Generation of random observations from Uniform, Exponential, Normal, Binomial, Poisson distributions	R P
	2	Generation of random observations from Uniform, Exponential, Normal, Binomial, Poisson distributions	R P
	3	Convergence in Law	N V P
	4	Central Limit theorem introduction	N V P
3	1	DeMoivre's Central limit theorem	N V P
	2	Significance of Central limit theorem and its uses	N V P
	3	Discussion of Model question papers	R P
	4	Revision of previous year question papers	N V P
4	1	Revision of previous year question papers	N VP
	2	Revision of previous year question papers	R P



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ACADEMIC PLANNER & UNITIZATION OF SYLLABUS

ACADEMIC YEAR/SEMESTER		2023-24	FIFTH
DEPARTMENT		STATISTICS, Paper 6	
SUBJECT/PAPER		Statistical Quality Control & Statistical Inference – II	
MONTH - 1			
WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
1	1	Introduction to SQC	N V P
	2	Aims, Objectives and Significance	N V P
	3	Chance vs Assignable causes	N V P
	4		R P
2	1	Process vs Product control	N V P
	2	Control charts, types, significance	N V P
	3	X bar and R chart (constant sample size) Process standards known and unknown	N V P
	4	Unit-3: Testing of Hypothesis-II	R P
3	1	X bar and R chart (Variable sample size) Process standards known and unknown	N V P
	2	p chart (Constant sample size and Stabilized chart) Process standards known and unknown	N V P
	3	np chart (Process standards known and unknown)	N V P
	4	<i>Definition of UMP test, monotone likelihood ratio (MLR) property,</i>	R P
4	1	c chart (Process standards known and unknown)	N V P
	2	u chart (Process standards known and unknown)	N V P
	3	Statistical background of control charts, Warning and Action limits	N V P



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	4	Examples of distributions having MLR property,.	R P
TEST 1			

MONTH -2			
WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
1	1	Process Capability Analysis (PCA)	N V P
	2	Process Capability Ratio (PCR) and its interpretation	N V P
	3	Natural tolerance limits and Specification limits	N V P
	4	<i>Examples of distributions having MLR property,</i>	R P
2	1	Sampling Plans, need, significance	N V P
	2	Single Sampling Plans (SSP), definition and operation	N V P
	3	Various parameters of SSP	N V P
	4	Construction of UMP test using MLR property..	R P
3	1	SSP for attributes	N V P
	2	Derivation of OC, AOQ of SSP and problems	N V P
	3	Derivation of ASN, ATI of SSP and problems	N V P
	4	<i>UMP test for single parameter exponential family of distributions.</i>	R P
4	1	Plotting of OC, AOQ, AOQL, ASN, ATI for SSP	N V P
	2	Non parametric or distribution free tests, Significance, advantages and demerits.	N V P
	3	One sample tests – Sign test, Signed Rank test	N V P
	4	UMP test for single parameter exponential family of distributions.	R P
TEST 2			



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MONTH -3			
WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
1	1	Test for Randomness (Run test)	N V P
	2	Kolmogrov – Smirnov test	N V P
	3	Two sample tests – Wald Wolfowitz run test	N V P
	4	<i>Likelihood ratio (LR)tests, LR test for normal</i>	R P
2	1	Mann-Whitney U test	N V P
	2	Friedman’s H test	N V P
	3	Kruskal – Walli’s test	N V P
	4	Likelihood ratio (LR)tests, LR test for normal, exponential	R P
3	1	Revision of previous year QPs	N V P
	2	Revision of previous year QPs	N V P
	3	Revision of previous year QPs	R P
	4	Revision of previous year QPs	R P

ACADEMIC PLANNER & UNITIZATION OF SYLLABUS

ACADEMIC YEAR/SEMESTER	2023-24	
DEPARTMENT	STATISTICS	
SUBJECT/PAPER	Sampling Theory and Regression analysis (Theory)	



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MONTH - 1

OCTOBER-2023

WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
OCTOBER 2023 (classes begin from 09/10/2023 1	1	Unit 1: Int. To sampling, basic concepts	R P
	2	Unit 2; SRS WR & WOR, basics	R P
	3	UEs of mean	R P
	4	UE of total.	R P
2	1	Sampling Vs Complete enumeration	R P
	2	Derivation of sampling variances	R P
	3	Sampling variance continued	R P
	4	Sample size derivation.	R P
3	1	Principal steps in a survey.	R P
	2	Adv. & drawbacks of SRS	R P
	3	Unit3: stratified sampling, need	R P
	4	Sampling and non-sampling errors	R P
NOV- 2023	1	Adv. & limitations	R P
	2	UE of population mean	R P
	3	UE of population total	R P
	4	CI	R P



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WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
2	1	Variance estr. derivation	R P
	2	Var. Estr. derv, continued	R P
	3	Proportional allocation	R P
	4	optimum allocation	R P
3	1	Neyman allocation	R P
	2	Comparison & gain in precision	R P
	3	Systematic Sampling: Linear systematic sampling Technique; estimates of population mean and total, variances of these estimates ($N=n \times k$).	R P
	4	do	R P
4	1	Comparison of systematic sampling with SRS and stratified sampling in the presence of linear trend and corrections	R P
	2	do	R P
	3	Merits and demerits of Systematic Sampling	R P
	4	Unit 4: Simple linear regression: Assumptions, inference related to regression parameters, standard error of prediction	R P
DEC-2023	1	tests on intercepts and slopes, extrapolation, diagnostic checks and correction: graphical techniques,	R P
	2	tests for normality, uncorrelatedness, homoscedasticity, lack-of-fit testing,	R P



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WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
	3		R P
	4	do	R P
TEST 2			

MONTH -3			
WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
2	1	transformations on Y or X (Box-Cox, square root, log etc.), method of weighted least squares, inverse regression.	R P
	2	Do	R P
	3	Do	R P
	4	Revision	R P
3	1	Revision	R P
	2	Revision	R P
	3	Revision	R P
	4	Revision	R P
4	1	Revision	R P
	2	Revision	R P
	3	Revision	R P