



SRI Y.N.COLLEGE(Autonomous),Narasapur
Affiliated to Adikavi Nannayya University
DEPARTMENT OF STATISTICS CURRICULAR PLAN 2022-23
I B.Sc Paper-I - Descriptive Statistics - Semester –I
(Yuvaraja B)

S.No	Month	Week	Syllabus	Additional input/ Value addition	Curricular Activity		Co-Curricular Activity	
					Activity	Hours Alloted	Activity	Hours Alloted
1.	Oct	IInd Week	Introduction to statistics	Basics Useful formulas	Teaching	15+6	Assignment Seminar	1 1
			Practical					
		IIIrd Week	Diagrammatic representations					
			Practical					
		IVth Week	Central tendency					
			Practical					
2.	Nov	Ist Week	Problems and Properties	Additional Problems Downloaded Material	Teaching	20+8	Assignment Seminar	1 1
			Practical					
		IInd Week	Measures of Dispersion					
			Practical					
		IIIrd Week	Moments					
			Practical					
		IVth Week	Skewness and Kurtosis					
			Practical					
3.	Dec	Ist Week	Curve fitting Straight line	Additional Problems Downloaded Material	Teaching	20+8	Slip test Assignments Seminar	1 1 1
			Practical					
		IInd Week	Second degree and exponential curves					
			Practical					
		IIIrd Week	Power curve and Correlation and types, Properties					
			Practical					
		IVth Week	Rank correlation and properties with problems					
			Practical					
4.	Jan	Ist Week	Regression lines and problems	Difficult Examples Downloaded Material	Teaching	20+8	Slip test Assignments Seminar	1 1 1
			Practical					
		IInd Week	Properties of regression lines					
			Practical					
		IIIrd Week	Attributes and Independence of Attributes and properties					
			Practical					
		IVth Week	Association and colligation of attributes					
			Practical					



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DEPARTMENT OF STATISTICS CURRICULAR PLAN 2022-23
I B.Sc Paper-II, Semester –II - Probability and Probability Distributions
(M Srimayie)

S.No	Month	Week	Syllabus	Additional input/ Value addition	Curricular Activity		Co-Curricular Activity	
					Activity	Hours Alloted	Activity	Hours Alloted
1.	March	IVth Week	Probability and simple events definitions	Basics	Teaching	5+2	Assignment	1
			Practical					
2.	April	Ist Week	Important theorems on Probability	Examples Downloaded Materials	Teaching	20+8	Slip test Assignments Seminars	1 1 1
			Practical					
		IInd Week	Random variables, types of RV and problems					
			Practical					
		IIIrd Week	Mathematical Expectation and properties					
			Practical					
		IVth Week	Some Inequalities and Generating functions					
			Practical					
3.	May	Ist Week	Binomial and Poisson distributions	Additional Problems Downloaded Material	Teaching	10+4	Slip test Assignments	1 1
			Practical					
		IInd Week	NBD, GD, HGD with properties					
			Practical					
4	June	Ist Week	Exponential, Gamma, Beta, Uniform distributions	Additional Problems Downloaded Material	Teaching	10+4	Slip test Assignments Seminars	1 1 1
			Practical					
		IInd Week	Normal distribution and Properties of normal distribution					
			Practical					



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DEPARTMENT OF STATISTICS CURRICULAR PLAN 2022 – 23
II B.Sc Paper-III – Statistical Inference - Semester –III
(Yuvaraja B)

S.No	Month	Week	Syllabus	Additional input/ Value addition	Curricular Activity		Co-Curricular Activity	
					Activity	Hours Alloted	Activity	Hours Alloted
1.	Oct	IInd Week	Sampling distributions and definitions	Useful results	Teaching	15+6	Assignment Seminars	1
			Practical					
		IIIrd Week	Chi square distribution and t distribution					
			Practical					
IVth Week	F distribution							
	Practical							
2.	Nov	Ist Week	Relationship between distributions	Additional Problems Downloaded Material	Teaching	20+8	Slip test Assignments Seminars	1 1
			Practical					
		IInd Week	Introduction of Estimation					
			Practical					
		IIIrd Week	Criteria of Good estimator MLE and Method Of Moments					
			Practical					
IVth Week	Interval estimation and testing of Hypothesis							
	Practical							
3.	Dec	Ist Week	NP Lemma and problems	Difficult Examples Down Loaded Material	Teaching	20+8	Slip test Assignments Seminars	1 1 1
			Practical					
		IInd Week	Large sample tests Mean and two means					
			Practical					
		IIIrd Week	Proportion and two proportions					
			Practical					
IVth Week	Sd and two SDs Correlation testing							
	Practical							
4.	Jan	Ist Week	Small sample tests mean(s)	Additional Problems Downloaded Material	Teaching	20+8	Slip test Assignments	1 1
			Practical					
		IInd Week	F test and Chi square test					
			Practical					
		IIIrd Week	N p tests sign and run test					
			Practical					
IVth Week	Median test problems and rank test							
	Practical							



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DEPARTMENT OF STATISTICS CURRICULAR PLAN 2022-23
II B.Sc Paper-IV, Semester –IV
(Sampling Techniques and Design of Experiments)
(M Srimayie)

S.No	Month	Week	Syllabus	Additional input/ Value addition	Curricular Activity		Co-Curricular Activity	
					Activity	Hours Alloted	Activity	Hours Alloted
1.	March	IVth Week	Sampling definitions and types of sampling	Downloaded Material Additional Problems	Teaching	5+2	Slip test Assignments Seminars	1
			Practical					1
2.	April	Ist Week	SRSWR and SRSWOR theorems	Examples Downloaded Materials	Teaching	20+8	Slip test Assignments Seminars	1
			Practical					1
		IInd Week	Stratified random sampling theorems					1
			Practical					1
		IIIrd Week	Systematic random sampling theorems					
			Practical					
IVth Week	Anova one way and Two way classifications							
	Practical							
3.	May	Ist Week	Principles of design of experiments and CRD	Additional Problems Downloaded Material	Teaching	10+4	Slip test Assignments	1
			Practical					1
		IInd Week	RBD and LSD					
			Practical					
4.	June	IIIrd Week	Factorial experiments 2^2	Additional Problems Downloaded Material	Teaching	10+4	Prof.P C Mahalanobis birthday Celebrations	
			Practical					
		IVth Week	Factorial experiments 2^3					
			Practical					



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DEPARTMENT OF STATISTICS CURRICULAR PLAN 2022-23
II B.Sc Paper-V, (Applied Statistics) Semester –IV
(M Srimayie)

S.No	Month	Week	Syllabus	Additional input/ Value addition	Curricular Activity		Co-Curricular Activity	
					Activity	Hours Alloted	Activity	Hours Alloted
1.	March	IVth Week	Time series and its components Practical	Downloaded material Additional Problems	Teaching	5+2	Assignments	1
2	April	Ist Week	Measurement of trend and Problems	Additional Problems Downloaded Material	Teaching	20+8	Slip test Assignments Seminars	1 1 1
			Practical					
		IIInd Week	Measurement of seasonal indices and Problems					
			Practical					
IIIrd Week	Fiiting of growth curves and Problems							
	Practical							
IVth Week	Index numbers and types of index numbers							
	Practical							
3	May	Ist Week	Weighted index numbers and ideal index number	Additional Problems Downloaded Material	Teaching	10+4	Slip test Assignments	1 1
			Practical					
		IIInd Week	Cost of living index number					
4	June	IIIrd Week	Vital statistics and fertility rates	Additional Problems Downloaded Material	Teaching	10+4	Assignments Prof.P C Mahalanobis birthday Celebrations	1
			Practical					
		IVth Week	Mortality rates, growth rates and Life table					
			Practical					



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DEPARTMENT OF STATISTICS CURRICULAR PLAN 2022-23
III B.Sc Paper-VI, (Operations Research - I) Semester –V
(Yuvaraja B)

S.No	Month	Week	Syllabus	Additional input/ Value addition	Curricular Activity		Co-Curricular Activity	
					Activity	Hours Alloted	Activity	Hours Alloted
1.	Oct	IInd Week	Introduction on OR, Mathematical formulation on OR	Downloaded material Additional Problems	Teaching	15+6	Assignments Seminars	1 1
			Practical					
		IIIrd Week	Graphical method on LPP					
			Practical					
IVth Week	Important Definitions on OR and various forms of LPP							
	Practical							
2	Nov	Ist Week	Solving LPP by Simplex method	Additional Problems Downloaded Material	Teaching	20+8	Slip test Assignments Seminars	1 1 1
			Practical					
		IIInd Week	Problems on Simplex method					
			Practical					
		IIIrd Week	Big-M method					
			Practical					
IVth Week	Two-phase simplex method							
	Practical							
3	Dec	Ist Week	Problems on various types of solutions	Additional Problems Downloaded Material	Teaching	20+8	Slip test Assignments Seminars	1 1 1
			Practical					
		IIInd Week	Duality in Linear Programming					
			Practical					
		IIIrd Week	Using duality to solve primal problem.					
			Practical					
IVth Week	Dual Simplex Method.							
	Practical							
4	Jan	Ist Week	Changes in the Cost Vector and Requirement Vector	Additional Problems Downloaded Material	Teaching	20+8	Slip test Assignments	1 1
			Practical					
		IIInd Week	Changes in the Coefficient Matrix					
			Practical					
		IIIrd Week	Structural Changes due to Addition and Deletion of Variables and Constraints					
			Practical					
IVth Week	Problems on Structural Changes							
	Practical							



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DEPARTMENT OF STATISTICS CURRICULAR PLAN 2022-23
III B.Sc Paper-VII, (Operations Research - II) Semester –V
(Yuvaraja B)

S.No	Month	Week	Syllabus	Additional input/ Value addition	Curricular Activity		Co-Curricular Activity	
					Activity	Hours Alloted	Activity	Hours Alloted
1.	Oct	IInd Week	Transportation Problem Introduction and North-West corner rule problems	Downloaded material Additional Problems	Teaching	15+6	Assignments Seminars	1 1
			Practical					
		IIIrd Week	Lowest cost entry method, Vogel's approximation Method problems					
			Practical					
		IVth Week	MODI method(U-V method) problems					
			Practical					
2	Nov	Ist Week	Hungarian Method for solving Assignment problem	Additional Problems Downloaded Material	Teaching	20+8	Slip test Assignments Seminars	1 1 1
			Practical					
		IInd Week	Problems					
			Practical					
		IIIrd Week	Traveling salesman problem					
			Practical					
		IVth Week	Johnson's algorithm for n jobs and two machines					
			Practical					
3	Dec	Ist Week	n jobs and three machines, n jobs and k machines	Additional Problems Downloaded Material	Teaching	20+8	Slip test Assignments Seminars	1 1 1
			Practical					
		IInd Week	Graphical method for two jobs on m- machines.					
			Practical					
		IIIrd Week	Basic Components of a network Scheduling					
			Practical					
		IVth Week	CPM and PERT Problems					
			Practical					
4	Jan	Ist Week	Introduction on Game Theory	Additional Problems Downloaded Material	Teaching	20+8	Slip test Assignments	1 1
			Practical					
		IInd Week	Solving Problems with and without Saddle Point.					
			Practical					
		IIIrd Week	Graphical method and Dominance Property of Games.					
			Practical					
		IVth Week	Matrix oddment method for n x n games.					
			Practical					

