Programme Name	Bachelor of Arts
Semester	Third
Course No	CC 202
Course Name	Statistical methods Paper-III
Course Type	Elective
Effective From	JUNE – 2012
Objective	To make of students competent to scope with the increasing
	important studies of methods.

SE 202:: Statistical methods Paper - III

Unit	Content	Marks	Credit
No.			
1	Statistical Test and Interval Estimation:	25 %	0.75
	Null and alternative hypothesis, Types of error, P - Values, Statement		
	of chi-square, t and F statistics. Testing for the mean and va riance of		
	univariate normal distribution, testing of equality of two means and		
	testing of equality of two variances of two univariate normal		
	distribution, related confidence intervals.		
2	Large of Sample Tests:	25 %	0.75
	Use of central limit theorem for testing and interval estimation of		
	single mean and single proportion and difference of two means and		
	two proportions. Fisher's Z transformation and uses. Pearson's chi-		
	square test for goodness of fit and for homogeneity for standard		
	distributions contingency table and test of independence in a		
	contingency table.		
3	Principles of acceptance sampling:	25 %	0.75
	Problem of lot acceptance, stipulation of good and bad lots,		
	producer's and consumers risks, single sampling plans, their O.C.		
	function concepts of A.Q.L,LTPD,AOQL, average amount of		
	inspection and A.S.N. function.		^
4	Integration :	25 %	0.75
	Integration as anti-derivative process, standard forms methods of		
	integration of substitution, by parts and by use of partial functions,		
	definite integration, properties of definite integrals(without		
	proof).Finding areas in simple cases, simple applications of definite		
	integrals.		

References:

1. Sancheti & Kapoor	: Business Statistics, Sultan Chand & Sons, New Delhi
2. Soni R.S.	: Bussiness Mathematics, Pitamber Publishing House
3. S.P.Gupta	: Statistical Methods
4. Sancheti & Kapoor	: Business Mathematics, Sultan chand & Sons, New Delhi

SE 202:: Statistical methods Paper-V

Programme Name	Bachelor of Arts
Semester	Fourth
Course No	CC 202
Course Name	Statistical methods Paper-IV
Course Type	Elective
Effective From	JUNE – 2012
Objective	To make of students competent to scope with the increasing
	important studies of methods.

Unit	Content	Marks	Credit
No.			
1	Statistical Quality Control: (S.Q.C):	25 %	0.75
	Meaning of scope of statistical Quality Control, general theory of		
	control charts cases of variation in quality, control limits, theory of		
	runs, and chart of variables X and R Charts.		
2	Statistical Quality Control: (S.Q.C):	25 %	0.75
	Charts for attributes p, np and c chart. Design of X and R charts		
	versus p charts, process capability studies.		
3	Analysis of Variance :	25 %	0.75
	For two way classification. Need for design of experiments,		
	fundamentals principles of design ,basic design –		
	C.R.D.,R.B.D.,L.S.D., and their analysis		
4	Demographic Methods:	25 %	0.75
	Sources of demographic data, census, and measurement of mortality		
	and life tables, crude death rates, and infant -mortality rate,		
	standardized death rate, and complete life table – its main features,		
	mortality rate. Measurement of fertility, crude birth rate, general		
	fertility rate, specific fertility rate, total fertility rate, gross		
	reproduction rate, net reproduction rate.		

References:

1. Sancheti & Kapoor : Business Mathematics, Sultan Chand & Sons, New Delhi

2. Dancan A.J. : Quality Control and Industrial stastics, tarapo rwala & sons.

- 3. S.P.Gupta : Statistical Methods
- 4. Cochran & Cox : Experimental Design

SE 202:: Statistical methods Paper -IV

Programme Name	Bachelor of Arts
Semester	Third
Course No	CC 202
Course Name	Statistical methods Paper-IV
Course Type	Elective
Effective From	JUNE – 2012
Objective	To make of students competent to scope with the increasing
	important studies of methods.

Unit	Content	Marks	Credit
No.			
1	Index Number: Its definition, applications of index numbers, price relative and quantity or values relatives link and shain relatives problem	25 %	0.75
	involved in computation of index numbers, use of average, simple aggregative and weighted average methods, laspey re's, paasche's and fisher's index numbers, time and factor reversal tests of index numbers, cost of living index number.		
2	Demand, Supply and Elasticity: Laws of demand and supply and its function, Market equilibrium price, Total revenue, Marginal revenue, total cost, marginal cost and its function. Total revenue curve and uses. Price elasticity of demand and supply. Relation between A.R, M.R, and elasticity of demand. Kind of E.D and its importance, monopoly, utility function and indifference curves.	25 %	0.75
3	Time series Analysis: Economic time series, its different components, Trend Seasonal and Cyclical fluctuations. Elimination of trend by the method of moving average and least square method. Seasonal variations by moving average method, Seasonal indices by simple averages and ratio-to moving average method.	25 %	0.75
4	Linear Programming: Elementary of theory of convex sets, definition of general linear programming (L.P.P.) formulation of L.P.P. Examples of L.P.P., problem occurring in various fields, Graphical methods of solving L.P.P. Formulation of transportation problem, its intial basic feasible solution by the North – West corner Method, Matrix Minima and Vogel's approximation method.	25 %	0.75

References:

1. Hooda R.P.	: Statistical for Business and Economics, Mac Millan, New Delhi
2. Loomba and Paul	: Linear Programming, Tata McGraw Hill publishing Company Ltd., New Delhi
3. Allen R.G.D.	: Mathematatical analysis for Economics.
4. L.R.Lapin	: Modern statistics For Business Decisions.

SE 202:: Statistical methods Paper-VI

Programme Name	Bachelor of Arts
Semester	Fourth
Course No	CC 202
Course Name	Statistical methods Paper-IV
Course Type	Elective
Effective From	JUNE – 2012
Objective	To make of students competent to scope with the increasing
	important studies of methods.

Unit	Content	Marks	Credit
No.			
1	Assignment Problem:	25 %	0.75
	Formulation of Problem, Hungarian Method solving the assignment		
	problem. Importance of replacement models, Replacement Problem		
	for items that deteriorate with time and value of money remaining		
	constant.		
2	Theory of Probability:	25 %	0.75
	Definition of Probability, classical and relative frequency approach		
	to probability, random experiment, trial, sample point and sample		
	space, definition of an event, operations of events, mutually		
	exclusive and exhaustive events, discrete sample space, properties of		
	probability base an axiomatic approach. Conditional Probability,		
	theorem and its application		
2	Dreh shility Distributions:	25.0/	0.75
3	Probability Distributions:	25 %	0.75
	binomial, Poisson, normal distribution and their uses, statement of		
	distribution to data		
4	Correlation and Pagrassion:	25.0%	0.75
4	Correlation Coefficient Scatter Diagram Bivariate frequency	23 70	0.75
	Distribution Correlation of rank (simple calculation) Karl Person's		
	correlation coefficient Concept of regression of one the other fitting		
	of linear and quadratic curves by the method of least squares product		
	moment correlation and properties		
	momente contention and properties.		

References:

- : Statistical for Business and Economics, Mac Millan, New Delhi
- : Probability and Statistics 2. M.R.Spiegel
- 3. Shrivatava O.S.
- 4. Dancan A.J.

1. Hooda R.P.

: A Text Book of Demography Vikas Publishing : Quality Control and Industrial Statistics, Taraporwala & Sons.