Objectives:(1)To enhanceanalyticalabilityin students for processing data
(2) To familiarize students with applications of Statistical techniques
.   in business decision Making.

UNIT	DESCRIPTIONINDETAIL	WEIGHTAGE
1	**Moments**:Meaningofa randomvariable,Definition of probability distribution ofrandomvariable,DefinitionofRawand Centralmoments. Relationbetweenfirstfourraw andcentralmoments (without proof), Conceptof coefficientofSkewnessandkurtosisand theirinterpretations, Simpleexamplesforobtainingthemeasureby usingrawdata,grouped dataandprobabilitydistribution.	[25%]
2	**Decisiontheory:**Meaningof decision theory anditsbasicterminologies,Methodsofsolvingdecisionproblem(i) Decisionunderuncertainty – Maxi-maxprinciple,Maxi-minprinciple,Hurwitz'sprinciple andLaplace principle.(ii)Decisionundercertaintywhen eventsprobabilitiesare known-E.M.V,E.V.P.I.Simpleexamplesand theirinterpretations.	[25%]
3	**Testingof Hypothesis:** Meaningstatisticalhypothesis,Definitionsof Nullhypothesis,Alternate hypothesis,Simpleand Compositehypothesis,Criticalregion,Type-1and Type-IIerrors,Levelofsignificance,Powerof tests.**SMALLSAMPLE TESTS**:Definition,Assumptions,andPropertiesof t-distribution. Test of Significanceof thedifferencebetweenSampleMeanand PopulationMean.Testof Significanceofthedifferencebetween Means ofTwoSmallSamples.Pairedttestfordifferenceoftwo Means.	[25%]
4	**CHI-SQARETEST,FTESTANDANALYSISOFVARIANCE:** DefinitionandlimitationsofChi-Squaretest, Goodnessoffit,Test ofIndependenceofTwoAttributeandYate'sCorrection.F-test (onlyintroduction), MeaningandAssumptionsof Analysisof Variance.AnalysisofVarianceforOneWayClassificationandits application.	[25%]

References:

(1)C.R.Kothari: QuantitativeTechniques, VikasPublishingHouse.
(2)Sancheti & Kapoor :BusinessMathematics.SultanChand&sons,New Delhi.
(3) S.C.Gupta &V.K.Kapoor:FundamentalofMathematical statistics,
SultanChand&sons,NewDelhi.
(4)Sancheti &Kapoor:BusinessStatistics.SultanChand&sons, NewDelhi