SARDAR PATEL UNIVERSITY Vallabh Vidyanagar, Gujarat (Reaccredited with 'A' Grade by NAAC (CGPA 3.11)) Programme: B.COM Semester: VI Syllabus with effect from the Academic Year:

		B.COM. SEMESTER-VI	
Pa	per Code	Title of the PaperTot	al Credit
UB0	6CCOM73	Business Mathematics & Statistics–VI	3
Course		1)To enhance analytical ability in students for processing dat	
Objectiv		2) To familiarize students with applications of Statistical	techniques in
	b	business decision Making.	
		Course Description	1
Unit		Description	Weightage
1.	distribution	Meaningofa random variable, Definition of probability of random variable, Definition of Rawand Central moments.	25%
		central centra	
		coefficientofSkewnessandkurtosisand theirinterpretations,	
	Simpleexampl		
		bility distribution.	
2.	Decisiontheor	25%	
		minologies, Methodsofsolving decision problem (i)	
	Decisionunder		
		Hurwitz'sprinciple andLaplace	
		Decisionundercertaintywhen eventsprobabilitiesare known-	
3.		I.Simpleexamplesand their interpretations.	25%
З.	Testingof H	25%	
		tisticalhypothesis, Definitions of	
	Nullhypothesis,Alternate hypothesis,Simpleand		
	-	hypothesis, Critical region, Type-1 and Type-	
		elofsignificance, Powerof tests. SMALLSAMPLE	
		finition,Assumptions,andPropertiesof t-	
		. Test of Significanceof	
		ebetweenSampleMeanand PopulationMean.Testof	
	Ũ	eofthedifferencebetween Means	
		amples.Pairedttestfordifferenceoftwo Means.	250/
4.	-	TTEST, FTESTANDANALYSISOFVARIANCE:	25%
		limitationsofChi-Squaretest, Goodnessoffit,Test	
	(onlyintroduct	ceofTwoAttributeandYate'sCorrection.F-test tion), MeaningandAssumptionsof Analysisof	
	•	lysisofVarianceforOneWayClassificationandits application.	
*Units v		ne Weightage in the evaluation as suggested in the course ou	tline.
Teachin		Lecture Method	
Learnin	-	Online Lectures	
Method	-	Group Discussion	
		Practical Problem Solving	

Evaluation Pattern		
Sr.No.		
1.		
2.	Internal Continuous Assessment in the form of Practical, Viva-Voce,	15%
	Quizzes, Seminars, Assignments, Attendance	
3.	University Examination	70%

* Students will have to score a minimum of 40 (Forty) Percent to pass the course.

Course Outcomes: Having Completed this course, the students will be able to 1. Be able to understand the characteristics of different types of decision-making environments and the appropriate decision making approaches and tools to be used in each type.

2.Can conduct basic statistical analysis of data and interpreting data.

3.Can present the analysis of derived statistics to all audiences.

Sr. No	References		
1.	C.R.Kothari: QuantitativeTechniques, VikasPublishingHouse.		
2.	Sancheti & Kapoor :BusinessMathematics.SultanChand&sons,New Delhi.		
3.	S.C.Gupta &V.K.Kapoor:FundamentalofMathematical statistics, Sult		
	Chand&sons, NewDelhi.		
4.	Sancheti &Kapoor:BusinessStatistics.SultanChand&sons, NewDelhi		
5.			
On-Line	Resources available that can be used as Reference Material		