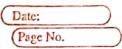
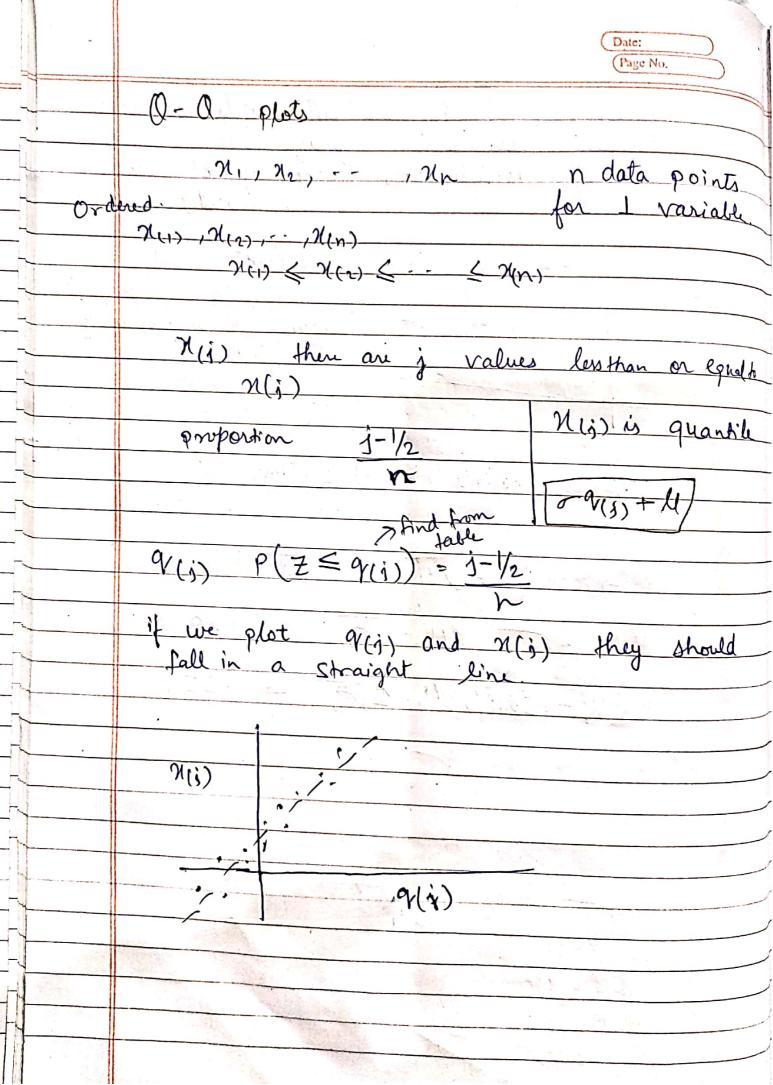
play Lacture of Page No. To check whether it is muchivariate nomal distribute really Normality or not XL XI Xp NIP 7/12 every column is also nomally distributed Uni Xn2 Mnp 0 = (a, ai, ap) a'x ~ N (a'u, a' Ea) Marginal distribution will be univariate norma single variables. if XI follows publicariate normal and Xn also follows same, then X1 & X2 may not follow the same ie XI & X2 may not be multivariate normal



then distribution may follow multivarake normal distribution, (necessary but not sufficient) In scatter plot means it is nomally distributed grogh of binariate normal scatter Phot (7, - JAII, 7, + JAII)



Date:	
(Page No.	

7(1)	J-1/2	9(6)
-1.00	0.05	-1.645
-0.10.	0.15	-1.036.
.16	0,25	-0.674
. 41		
.62	1	1,26
	1-11-1	n' x j
1	And the second s	- C. 10
	0.93	- and The
		S 12 tol 10

Check for multivariate Normality

X1., X2., X3., ---, 2/n.

dj2 = (xj. - \bar{\pi}) s^-1 (\pi_y, - \bar{\pi}) = Squared Statistical distance.

 $d(1)^2$, d(2), --, d(n)

(χ-μ) ε (χ-μ) ~ χ²_p

	C> Chi Squared
	C> Chi Squared p> p degrees ofate: freedom Page No.
-	$\left(q_{c,p}\left(\frac{i-1/2}{n}\right),d_{c_{1}}^{2}\right)$
	9c, (5-1/2) - x2 ((n-j+1/2)/n)
	1C/p (n)
19	1-d
1	
	$\frac{1}{\sqrt{1- 2 }} \frac{\sqrt{1- 2 }}{\sqrt{1- 2 }}} \frac$
) (())
	1 0.3 0.10
_	2 0.62 0.33.
_	3 1.16
	9
_	" Let the the property of the state of
-	10 4.38. 5.99
-	
,	
	The state of the s
-	line should be similar
	line should be similar to straight line.
The state of the s	to sixught line.
	Scanned with CamScanner