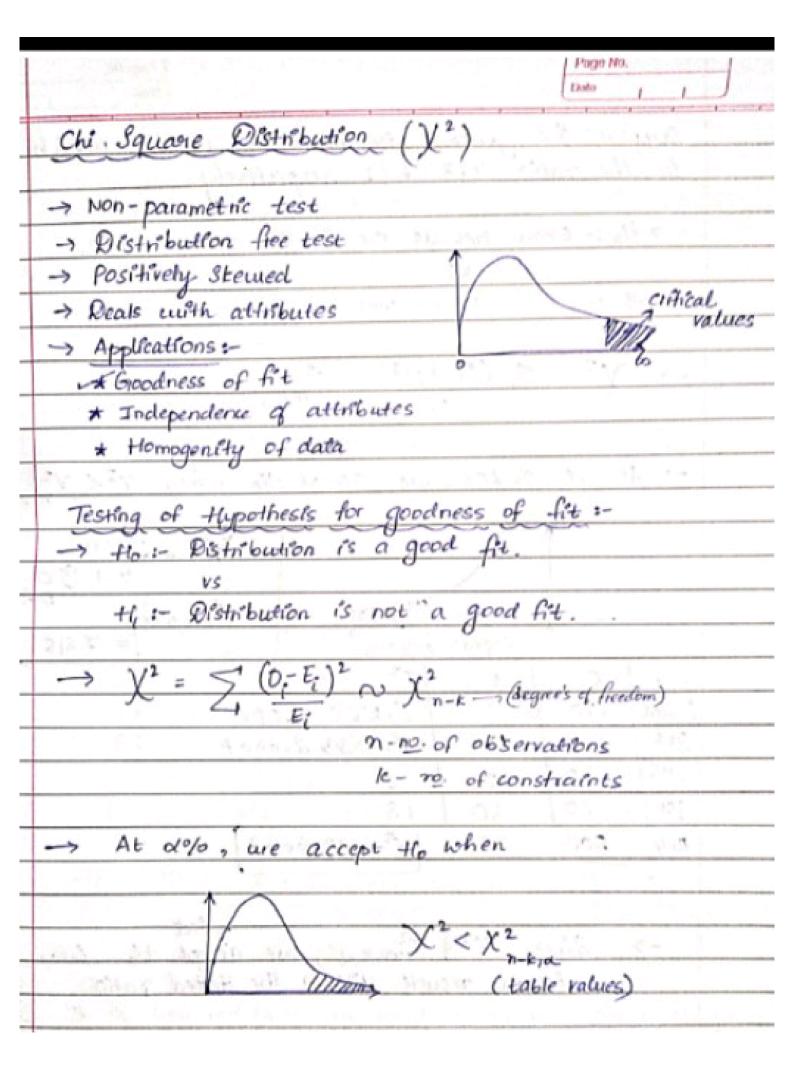


		Page No.
	* Numerical computation,	man service and the service an
Mars!	$\overline{\chi}_1 = \underline{\zeta}_1 \underline{\chi}_1 $ $\overline{\chi}_2 = \underline{\zeta}_1 \underline{\chi}_2 $ $\underline{\eta}_1$	*
	n_i n_i	
3843-2	3:20% 0	
	$O_1^2 = S_1^2 = \frac{1}{N_1} \leq \left(\frac{\chi_1}{1} - \overline{\chi}_1\right)^2$	
War t	and the	
1950	$\frac{1}{n_{2}} = S_{2}^{2} = \frac{1}{n_{2}} \sum_{i} (\alpha_{i} - \overline{\alpha}_{i})^{2}$	
	n ₂ 4 (1)	to count (
BEN !	made and more of 21 to an of	

Section 1	
	Testing of hypothesis for single proportion
	→ X ~ B(m, p)
No.	$X \sim N(\mu = \pi P, \sigma^2 = \pi P R)$
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The state of	-> deals with characteristic
	-> Ho: P=Po
	the part to VS to repair to the set of the
	His P>Po man to me the second
	P <b< td=""></b<>
	It skips and P+Police to the action of actions and
100	I to the second
	S.E(P)
	where, E(p) = P
	S.E(p) = PQ
	\ n:
	X= p-P , N(0,1)
	$z = P - P \sim N(0, 1)$
	where $b = \frac{\chi}{\chi}$
With-	n n
	-> At dolo, accept the when
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	Test of significance for difference of
	proportions.
	Topologie.
No. X	
2	$\times_1 \sim B(n_1, P_1)$ $\times_2 \sim B(n_2, P_2)$
See A	2022000
137	\rightarrow Ho: $P_1 = P_2$
Oct 7s	- (ACC-101) VC(200)
115	· (Approved) P vs (Proved)
	P > B
	PICP
	$P_1 \neq P_2$
	Page No.
	Date 1
	Date 1
	Dote
	$\Rightarrow Z = (P_1 - P_2) - (P_1 - P_2) \sim N(0,1)$ $P(0,1)$
	$\Rightarrow z = (P_1 - P_2) - (P_1 - P_2) \sim N(0,1)$
	$\Rightarrow z = \frac{(P_1 - P_2) - (P_1 - P_2)}{\sqrt{PQ(\frac{1}{n_1} + \frac{1}{n_2})}} \sim N(0,1)$
	$\Rightarrow z = (P_1 - P_2) - (P_1 - P_2) \sim N(0,1)$ $Pa(\frac{1}{n_1} + \frac{1}{n_2})$ $Pa(\frac{1}{n_1} + \frac{1}{n_2})$ $Pathene Rolled proportion = x_1 + x_2 = P$
	$\Rightarrow \chi = (P_1 - P_2) - (P_1 - P_2) \sim N(0,1)$ $= \sqrt{PQ(\frac{1}{n_1} + \frac{1}{n_2})}$
	$\Rightarrow z = (P_1 - P_2) - (P_1 - P_2) \sim N(0,1)$ $PQ(\frac{1}{n_1} + \frac{1}{n_2})$ $PRese Roled proposition = \frac{\chi_1 + \chi_2}{n_1 + n_2} = P$ $0 \text{ or } P = n_1 P_1 + n_2 P_2$
	$\Rightarrow \chi = (P_1 - P_2) - (P_1 - P_2) \sim N(0,1)$ $= \sqrt{PQ(\frac{1}{n_1} + \frac{1}{n_2})}$

Testing equality of Variances:-	1350
Testing equality of Variances:-	
> X1~ N(µ1,012)	8 1 min 8 100 -
X2~ N (H2, 022)	
\rightarrow +10 : $\sigma_1^2 = \sigma_2^2$	
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H,:- 5,2+ 522	- 2 2
$\rightarrow F = S^2 \rightarrow F + \cdots + \cdots$	-1-611- 81
$\rightarrow F = S_1^2 \sim F_{n_1-1,n_2-1,a}$ $S_2^2 \sim S_2^2 \sim S_$	
Note :- Numerator > Denominator	ĐT
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→ Continous prob.	
→ pdf i's expressed	
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	to when F < Fny fa
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n-1	, ,



	Testing of difference of mean for small samples:-
0	
->	Comparative study of 2 population mean.
	$X_1 \sim N(\mu_1, \sigma_1^2)$
	$X_2 \sim N(\mu_2, \sigma_2^2)$
	The second of th
-	Samples aue belependent
->	Ho :- MI-M2 = S → Decision oule,
	vs Accept to, when
	+1, :- 11-H2 +S 16/2, n1+n2-2
	$H_1 - H_2 < S$ $t > t_{\alpha}, n_{i+p-2}$
N	μ1-μ2>s t< ta, n+12-2
>	$t = (\overline{x_1} - \overline{x_2}) - (\mu_1 - \mu_2) \sim t_{d+n_1+n_2-2}$
	$\frac{S}{\sqrt{n_1} + \frac{1}{n_2}}$
	$\sqrt{n_1 n_2}$
3	S2- Pooled vonance
	$= (n_1 - 1)S_1^2 + (n_2 - 1)S_2^2$
6	$-n_1+n_2-2$
5.	
	$S^2 = \frac{1}{n-1} \sum_{i} (\pi - \overline{x})^2, 8^2 = \frac{1}{n} \sum_{i} (\pi - \overline{x})^2$
	7-141,
>	Kiew () 22 2
	$\Rightarrow (n-1)S^2 = nS^2$
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$ \begin{array}{c} \rightarrow \times_{1} \sim N\left(\mu_{1},\sigma_{1}^{2}\right) \\ \times_{2} \sim N\left(\mu_{2},\sigma_{2}^{2}\right) \\ \end{array} $ $ \begin{array}{c} \rightarrow \text{Samples are dependent.} \\ di = X_{1} - X_{2} \\ \end{array} $ $ \begin{array}{c} d \sim \mathbb{E}N_{\bullet}(\text{Ha},\sigma_{4}^{2}) \\ \end{array} $ $ \begin{array}{c} \rightarrow \text{Ho:} \mu_{1} - \mu_{2} = 0 \text{os} \mu_{d} = 0 \\ \text{VS} \\ \end{array} $ $ \begin{array}{c} +H_{1} := \mu_{1} + \mu_{2} \text{or} \mu_{d} \neq 0 \\ \mu_{1} - \mu_{2} < 0 \text{or} \mu_{d} < 0 \\ \end{array} $ $ \begin{array}{c} \mu_{1} - \mu_{2} < 0 \text{or} \mu_{d} < 0 \\ \end{array} $ $ \begin{array}{c} +1 = \overline{d} - \mu_{d} \text{or} \mu_{d} > 0 \\ \end{array} $ $ \begin{array}{c} +1 = \overline{d} - \mu_{d} \text{or} \mu_{d} > 0 \\ \end{array} $ $ \begin{array}{c} +1 = \overline{d} - \mu_{d} \text{or} \mu_{d} > 0 \\ \end{array} $ $ \begin{array}{c} +1 = \overline{d} - \mu_{d} \text{or} \mu_{d} > 0 \\ \end{array} $ $ \begin{array}{c} -1 = \overline{d} - \mu_{d} \text{or} \mu_{d} > 0 \\ \end{array} $		apara E. A. T. Constill	Paired t test:	111 1
$X_2 \sim N(\mu_2, \sigma_2^2)$ Samples are dependent. $dc = X_1 - X_2$ $d \sim (N_*(\mu_d, \sigma_d^2))$ $\rightarrow H_0 := \mu_1 - \mu_2 = 0 \text{ or } \mu_d = 0 \rightarrow \text{Accept Ho whe}$ V_S $H_1 := \mu_1 + \mu_2 \text{ or } \mu_d + 0 \text{ ltl} < t_{d/2, n-1}$ $\mu_1 - \mu_2 < 0 \text{ or } \mu_d < 0 \rightarrow t_{d/2, n-1}$ $\mu_1 - \mu_2 > 0 \text{ or } \mu_d > 0 \rightarrow t_{d/2, n-1}$ $\mu_1 - \mu_2 > 0 \text{ or } \mu_d > 0 \rightarrow t_{d/2, n-1}$ $V_1 - V_2 > 0 \text{ or } \mu_d > 0 \rightarrow t_{d/2, n-1}$ $V_2 = \overline{U} - \mu_d + \overline{U} +$				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	412 4-	A STATE OF S	X, ~ N (41, 572)	\rightarrow
Samples are dependent. $di = X_1 - X_2$ $d \sim \text{EN.}(\text{Ha}, \sigma_d^2)$ $d \sim $				
$di = X_1 - X_2$ $d \sim \text{EN.}(\mu_d, \sigma_d^2)$ $\rightarrow \text{Ho:} \mu_1 - \mu_2 = 0 \text{os } \mu_d = 0 \rightarrow \text{Accept Ho whe}$ VS $+f_1 :- \mu_1 + \mu_2 \text{or } \mu_d \neq 0 \text{It} < t_{d 2, n-1}$ $- \mu_1 - \mu_2 < 0 \text{or } \mu_d < 0 t > t_{d, n-1}$ $- \mu_1 - \mu_2 > 0 \text{or } \mu_d > 0 t < t_{d, n-1}$ $\rightarrow t = \overline{d} - \mu_d \text{on } t_{d, n-1}$ S_d / \sqrt{n}		1 3 317		
$d \sim \text{RN.}(\text{Haso}_{q}^{2})$ $\rightarrow \text{Ho:} \mu_{1} - \mu_{2} = 0 \text{os } \mu_{d} = 0 \Rightarrow \text{Accept } + \text{Io whe}$ VS $+f_{1} :- \mu_{1} + \mu_{2} \text{or } \mu_{d} \neq 0 \text{Iti} < t_{d/2}, n-1$ $\mu_{1} - \mu_{2} < 0 \text{or } \mu_{d} < 0 t > t_{d, n-1}$ $\mu_{1} - \mu_{2} > 0 \text{or } \mu_{d} > 0 t < t_{d, n-1}$ $\rightarrow t = \overline{d} - \mu_{d} \text{or } t_{d, n-1}$ $S_{d} \sqrt{n} \text{or } t_{d, n-1}$			Samples are depend	/ ->
$d \sim \text{EN.}(\text{Ha}, \sigma_d^2)$ $\rightarrow \text{Ho:} \mu_1 - \mu_2 = 0 \text{os } \mu_d = 0 \rightarrow \text{Accept } + 1_0 \text{ whe}$ vs $+ \mu_1 :- \mu_1 + \mu_2 \text{or } \mu_d \neq 0 \text{It} < t_{d/2}, n-1$ $\mu_1 - \mu_2 < 0 \text{or } \mu_d < 0 t > t_{d, n-1}$ $\mu_1 - \mu_2 > 0 \text{or } \mu_d > 0 t < t_{d, n-1}$ $\rightarrow t = \overline{d} - \mu_d \text{or } t_{d, n-1}$ S_d / \sqrt{n}	4 7		di = X1-X2	
		the street we be	place of the first	
			d~ EN. (Ha	
VS $+f_1 :- \mu_1 + \mu_2 \text{or} \mu_d \neq 0 \qquad t < t_{d 2,n-1}$ $\mu_1 - \mu_2 < 0 \text{or} \mu_d < 0 \qquad t > t_{d,n-1}$ $\mu_1 - \mu_2 > 0 \text{or} \mu_d > 0 \qquad t < t_{d,n-1}$ $\Rightarrow t = \overline{d} - \mu_d \text{or} t_{d,n-1}$ $S_d \sqrt{n}$		the state of the state of	1944, 1244 1	l d
$tf_{1} := \mu_{1} + \mu_{2} \text{or} \mu_{4} + 0 \qquad \text{It} i < t_{0} + i_{2}, n-1$ $\mu_{1} - \mu_{2} < 0 \text{or} \mu_{d} < 0 \qquad t > t_{0}, n-1$ $\mu_{1} - \mu_{2} > 0 \text{or} \mu_{d} > 0 \qquad t < t_{0}, n-1$ $\Rightarrow t = \overline{d} - \mu_{d} \text{or} t_{0} + i_{0} + $	to when	- Accept to	Ho:- 4,-4,=0 0	\rightarrow
$H_1 - \mu_2 < 0 \text{ or } \mu d < 0$ $H_1 - \mu_2 > 0 \text{ or } \mu d > 0$ $t < t_{\alpha, n-1}$ $t = \overline{d} - \mu_d$ S_d / \sqrt{n}		1 - 11		
$H_1 - \mu_2 < 0 \text{ or } \mu d < 0 $ $+ > t_{\alpha, n-1}$ $+ \mu_1 - \mu_2 > 0 \text{ or } \mu d > 0 $ $+ < t_{\alpha, n-1}$ $+ = \overline{d} - \mu_d \qquad t_{\alpha, n-1}$ $S_d \sqrt{n}$	n-1	1t1 < td12.0-1	H,:- 41+H2	
$\frac{\mu_1 - \mu_2 > 0 \text{ or } \mu_d > 0}{t} = \frac{d - \mu_d}{S_d / \sqrt{n}} $ $\frac{d - \mu_d}{S_d / \sqrt{n}} $ $\frac{d + \mu_d}{S_d / \sqrt{n}} $		+> ta, n-1	- Barting - 1985년 1일 - 1985년 - 1985년 - 1985년 - 1985년 - 1985년 - 1985년 1일 1985년 - 1985년 - 1985년 - 1985년 - 1985년	
$ \rightarrow t = \overline{d} - \mu_d \approx t_{\alpha, n-1} $ $ S_d/\sqrt{n} $	1	t < ta. 0-1	µ,-µ2>0	
$\frac{1}{Sd\sqrt{n}} = \frac{\overline{d} - \mu_d}{Sd\sqrt{n}} \approx \frac{t_{\alpha,n-1}}{s_{\alpha,n-1}}$				
Jajvn.			and the state of t	
- Jajyn			t = d - µd	\rightarrow
$\overline{d} = \underline{z}_i d \qquad \underline{s}_i = \underline{1} \underline{s}_i \left(d_i - \overline{d} \right)^2$			Salvn	
$d = \sum_{i=1}^{n} d = \sum_{i=1}^{n} \sum_{j=1}^{n} (d_i - \overline{d_j})^2$				
	1	1=1 5 (di-d)2	d = 2d	
(n-1)		(n-1)	n	