

SNS COLLEGE OF TECHNOLOGY



(An Autonomous Institution) DEPARTMENT OF MATHEMATICS COMPLETELY RANDOMIZED BLOCK DESIGN

Dosign of Exportments Nust - II

- 2. Completely radonized design (CRD) belowed
- 3. Randonized block design. (RBD) > page 0 = (3)
- 4. Lotter Square design (LSD) betons i il
- 5. 22 factorlal design (Assignment) supindest prinques

Introduction.

Design out experiment is the legical construction of experiment on which the degree of tuncestainity with which the inference is drawn may be well The designment of exportments of cludes promeny set destate.

- 1. Planning of experiment

 2. Obtain By relevant information from the experiments.

 3. Walling in the instalistical inanolysis of data.

Radic pronuples of experimental indesigning ins the base prohuples are

- 1. Repthation Repeatation of treatment
- 2. Pandonization Randonly aus gred the treatment experimental with
 - 3 Local contral Process of making experimental units homogeneous. I reducing the experimental

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boxin straft platalymas prolyer of Variance (1 110VA) region eignafrance. The text of significance using 4 distribution is an adequate procedure only for texting the eignificance of the difference between 2 cample means. It is a powerful statistical tool for test of In a stuation were we take more tean 3 comper to consider at a time an alternate procedure "u needed for testing the hypothesis that all samples are drawn from same population. Here we use the tacharques of ANOVA & the purpose of the analysis is to test ? the homogenesty of seneral means. - 900 Assumptions for ANOVA test: * The observation are Edependent of the M * Parent, population from which absendion are blue is normal. * The samples have been rardonly extected from the population " hypothesis Ho all population means Under the null hypothesis one equal. We use the variance ratio or F-votio. which is f= Variance b/w the samples Valance withen the samples. There are 3 Emportant design of experiments. 1. Completely Rodonized design (1 way dossification) 2. Randoni zad Hock design (2 way lawification) design (2 way dans ifreatton) Latin square