

# Research Designs

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## 1. Completely Randomized Design (CRD)

Each experimental unit is randomly assigned to one of the treatments. **Example:**

goat food(1&2) (Chara) is to be checked on goats. Total goats=20

2 samples of 10 each

and then telling result on the basis of these samples k food 1 and food 2 ka kia impact hay. food 1 will be compared with food2

## 2. Randomized Complete Block Design (RCBD)

Two step process

- Make the block
- Then repeat the CRD

**Example:**

- Same 20 goats hayn.
- 2 sample of 10 males and 10 females.
- Phir un 10 male and female me further 5 5 k samples. Like male me 5 will get Food 1 and 5 will get food 2. Similar for female goats.
- Repeat CRD on this sample

Yahan 1 factor is food and other is gender.

## 3. Latin Square Design (LSD)

Similar to square (rows= columns)

0	Week 1	Week 2	Week 3
Goat 1	Food 1	Food 2	Food3
Goat 2	Food 3	Food 1	Food 2
Goat 3	Food 2	Food 3	Food 1

No repetitions of treatment in rows and columns.

Used in less resources.

Other research designs

<https://www.questionpro.com/blog/research-design/>