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Subject Incharge: Prof. Sarala Mary

Page No.

## A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering **Data Science** 



Semester: Statistic for ATLDS Academic Year: 20 23 20 21
MODULE - 2.
the process of selecting a
for the population under
*Sampling is the process of selecting a representative Group from the population under
study.
* The target population is the total group of
individuals from which the sample might be
study.  * The target population is the total group of individuals from which the sample might be drawn:
drawn. I is the group of people who take par
The people who lake past is
in the investigation, in
drawn.  * A sample is the group of people who take part in the investigation. The people who take part is called as "participants".
Types of Sampling:-
Brased sample
Cample
* Convience Sample  Valuntary & Response Sample.
* Voluntary
Unbiased Sample.
* Stratified Random Sampling
* Hultislage Sampling.  * Simple Random Sampling.
Cerole Random Sampling.
* Simple / Late
Biased Sample:
It occurs when one or more parts of me parts
are favoured over others.

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Department of Computer Science and Engineering Data Science



Subject: Statistics for AJBDS Academic Year: 2023 2024.

Types of Brased Sample:-

Convience sampling > It only Productes people who could reach.

- \*The samples are picked up according to the Convience.
- \* Only the reachable ones and known people are included in sample. (Refer PPT).

Voluntary Response sample: +J+ consists of people that have chosen to include

- + The sample consists of speople who are interested is that lopic.
- \* Only voluntary participation of people on the part of the sample. (Refer PT for example).

UNBIASED SAMPLE -

A good sample is one that is representative of the entite population that gives "each" thing an equal chance of being choosen.

Types of Unboased Sample:

Stratified Rendom Simple Random Sampling: \* It is atype of probability sampling where everyone in the entire target population has an equal chance of being relected.

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Data Science



Semester: Statistics for AJEPS academic Year: 2028-2024. For example, it is similar to the notional lottery. If the population is everyone who has bought a lottery ticket, then each person has an equal chance of winning the

lottery.

Random sampling requires a way of naming or numbering the larget population and then using some type of raffle method to choose those to make up the sample. (Example refer PPT).

Steatified Random Sampling

Dopulation, groups of similar people are grouped together

+ This groups are known as strata.

applied and the samples are scheded. (Refer PPT).

In multislage sampling it wer combination of two or more stages It divides the population into groups for conducting research. During this sampling chuter) for conducting research. During this sampling method, significant clusters of the selected people are split into sub-groups at various stages to make it simpler for primary data collection.

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Sups to conduct multislage sampling?

Steps to conduct multislage sampling to considering the population of probability sampling, chaose the members of the sample group from the sub-groups.

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