E-Content

Research Methodology in Economics

Semester: V

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Course Code: BAEC3002 Course Name: Research Methodology in Economics

COURSE CONTENT

Research and statistics

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Statistics

Concerned with economic, political and demographic particulars of a country.



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Descriptive Statistics

Includes the procedure for collecting, classifying, summarizing and presenting data.



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inferential Statistics It allow us to proceed beyond the collected data into the area of decision making through generalization and prediction.

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Characteristics of Statistics

- ➤ Its aggregate of facts
- > Its affected to a marked extent by multiplicity of causes.
- > Expressed numerically
- ➤ Its enumerated and estimated as per reasonable standard of accuracy.
- > Collected in a systematic manner
- > For a pre-determined purpose
- Must be placed in relation to each other.

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limitations of Statistics

- > Do not deal with individual figures
- > Does not study qualitative data
- > Its laws are not exact
- Its interpretation require high quality of skills and understanding of the subject.

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First step in Statistics

- **➤** Collection of DATA
 - > MEANING, TYPE, CLASSIFICATION
 - >OBJECTIVES, REQUISITE OF GOOD CLASSIFICATION, TYPES,
 - >TABLES: objectives, essential parts of tables,
 - > FREQUENCY DISTRIBUTION

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Central tendency

- >Arithmetic mean
 - Mean, median, mode
 - >MODE = 3 MEDIAN 2 MEAN
- >Geometric mean
- > Harmonic mean
- $AM \ge GM \ge HM$

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Central tendency

> Properties of Arithmetic Mean:

- 1. The sum of the deviations taken from arithmetic mean is zero.
- 2. The sum of the squares of the deviations of the given set of the observations is minimum when taken from the arithmetic mean.
- 3. If each observation is increased / decreased by a constant "K" then mean of the new data set is increased / decreased by "k".

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Central tendency

> Properties of Arithmetic Mean:

4. If each observation is multiplied by "k", then the mean of the new data set is also get multiplied by "K".

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TRADITIONAL METHODS OF DOING RESEARCH ... QUANTITATIVE RESEARCH

- A Research that -
 - is objective in nature;
 - makes use of quantitative data;
 - is based on the assumption that the reality is not vague and ambiguous;
 - in which precision and reliability are considered to be an essential element of the scientific reality;
 - uses experimentation and controlled environment.
- In such research, Mathematical and Statistical tools are employed to derive meaningful results out of the data obtained.

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Quantitative research ...

- Quantitative research is based on the assumption that facts are true and the same for all the people at all the time.
- The output of such a research is always considered to be objective.
- The basic premise is "there exists definable and quantifiable social facts."

But, can we say that reality is always objective; can be expressed through numbers; same for all individuals especially when the reality is related to human being?

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Modern methods of doing research ... OUALITATIVE RESEARCH A research that is not subject to quantification and quantitative analysis.

- In it, the basic objective is to capture what people say and do as a product of how they interpret the complexity of their world to understand the events from the viewpoint of the participants.
- ☐ It accepts subjective reality as a valid reality.
- □ It may accept reality with different meanings.
- ☐ Under it, a contextual truth is a valid example of truth.
- ☐ Some of the examples of the tools of qualitative research- case studies, depth interview, action research etc.

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Some Methodologies of ... QUALITATIVE RESEARCH

- Focus Group
- Case Studies
- Observations/Field Studies
- In-depth Interviews
- Projective Tests
- Ethnography

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