

# Research Methor 14MBA23

Module 1



# Objectives of Course

- To provide an understanding on the concepts of research methods.
- To expose the students to the role the plays in business decisions.



# Meaning

- Research in common man's language "Search for knowledge"
- Research is an art of scientific invest
- It is also a systematic design, collect and the reporting the findings ad sol problems of business



### Definition

• Systematic approach towards puinvestigation.

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## Definition

 According to Robert Ross, "research an investigation, a recording and a evidence for the purpose of gaining



# Features of Good research

- Objectivity: must answer resear question
- Control: all variables data, sa
- Generalisability: same result widentical method
- Free from personal bias :
- Systematic:

#### **Features of Research**

- ✓ Is essentially an investigation
- ✓ Is related with the solution of a problem
- It is based on observation or experimenta
- ✓ It demands accurate observation or exper
- ✓ In research, the researchers try to find our unsolved questions
- ✓ It should be carefully recorded and report



- Grouped under two categories
- 1 Fundamental research
  - The science of psychology
- 2 Applied research
  - Apply the psychology



- Exploratory research
  - At beginning when the problem i cleared

Eg: sales decline in a company m inefficient service

price promotion quality



- Exploratory research
  - Expert surveys, focus groups, cas and observation methods.



- Descriptive Research
  - It is fact finding investigation.
  - Describes the state of view as it expresent
  - It does not establish cause and re Eg: consumption of soft drinks with socioeconomic character – age, far



- Applied research
  - Deals with real life situation
  - Aims at finding immediate solution problems.
  - Eg: why the sales decreased during
  - Use of fibre body for cars instead of



- Pure/ Fundamental or basic
  - Gathering knowledge

Eg: theory of relativity by Einstein



- Conceptual Research
  - It is generally used by philosophe
  - It is related to some abstract ide

Eg: ideology of 'isms'

Gandhism



Casual Research

• To determine the cause and effect relationship between the two va

Eg: effect of advertisement on sale



- Historical Research
  - Study of past records and data's

Eg: value of shares of company is the historical research



- Ex-post facto Research/ Emp
  - Examination of relationship that between independent and dependent variable

Eg: what has happened because of what is happening because of



- Action research
  - Research is done directly by action
  - Geographical location is identified
  - Samples are selected
  - Response is collected

Eg: test marketing



- Evaluation Research
  - It is an applied research.
  - It is conducted to find out how w programmes are implemented

Eg: "Success of Midday Meal Prog "Swatch Bharat Abhiyan"



- ·Library Research
  - It is done to gather secondary da

Eg: consumption of soft drinks wir socioeconomic character – age, far



#### **Process of Research**

- 1. Defining the research problem and relative
- 2. Formulation of hypothesis
- 3. Research Design
- 4. Collecting data
- 5. Analysing data and testing hypothesis
- 6. Preparation of report and preliminar
- 7. Interpreting and reporting the findin



### Research Pro

- 1. Problem formulation
- 2. Method of inquiry
- 3. Research method
- 4. Research design
- 5. Select data collection techniques(s
- 6. Sample design
- 7. Data collection
- 8. Analysis and Interpretation
- 9. Findings, conclusions and recomm
- 10. Research report



# 1.Defining Research Pro

- Converting Management problem into Res
- M P: want to increase sales of product A
- R P: what is the current the sale of produc



# 1.Defining Research Pro

- Followings to be considered
- 1 Determine the objective of the stu
- 2. Consider various Environmental I Purchasing habits, competitors, brand immarket and target customers
- 3. Nature of the problem

  Brand image, not buying, why to competitors p
  audience?
- 4. Stating the alternatives

  Developing hypothesis

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# 1.Defining Research Pro

Reviewing the literature



# 2. Formulation of Hypoth

- A hypothesis is a proposition a tent assumption which a researcher want its logical or empirical consequences
- Eg.
- To increase the sales whether to introduce
- Hypothesis: The acceptance of Sachet by concrease the sales by 20%

# Formulating Hypothesis

- Hypothesis are generally concerned with the phenomenon or a relationship between two or
- We make certain assumptions to about the patested-these assumptions are known as Hypo



# Formulating Hypothesis

- Null Hypothesis Ho: introducing sachet w sales by 20%
- This is tested against
- Alternative Hypothesis H 1: introducing sa increase sales
- Decisions to be taken whether Null Hypotl Accept or Reject



- Error 1
  - · Rejecting the null hypothesis when the fa
- Error 2
  - · Accepting the null hypothesis when the f



#### 2. Method of In

- Qualitative subjectivity: This is u those data which cannot be quantifi in exploratory research. Responde small compare to quantitative research.
- Quantitative objectivity: major of data.



#### 3. Research Mo

• Experimental:

extraneous variables are control?

Eg: Which print advertisement i Is it the front page, Middle page

Non Experimental:

cannot control extraneous variab



# 4. Research Desi

"Specific methods and procedures Information needed"

Based on research method, research

Exploratory – identification of proble

Descriptive – describes characteristic

Causal- predictive, reasons why, rela



#### 5. Data collection To

- What data to collect?
- How to collect the data?

#### Secondary:

#### Primary:

- Communication questionnair
- Observation



# 6. Sample De

- Where the sample is to be selected? the population
- Process of selection Probability/Non p
- Size of the sample n?



# 7. Analysis and Inte

• Descriptive statistical measures — contage, proportion, mean, varia

- Univariate Analysis:
  - Z-test (n>30), t-test (n<=30),(for con
  - Chi-square goodness of fit test (for



- Bivariate Analysis:
  - Cross tabulation with chicategorical)
    - Z-test, t-test, ANOVA(for c
    - Chi-square test (for categor
    - correlation, regression

Data Can be analyzed through charts, Graphical representa



### 8. Research Ro

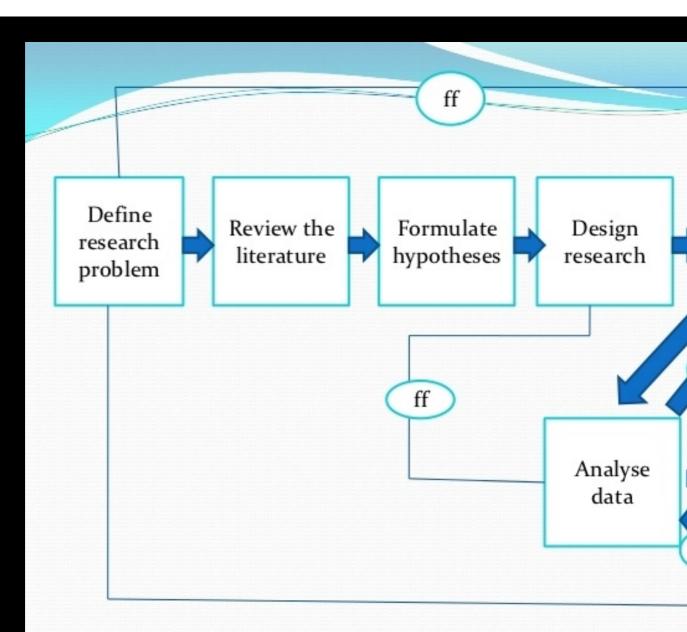
• Written Report



#### 7 STEPS OF RESEARCH PI

- Step One: Define research problem
- Step Two: Review of literature
- Step Three: Formulate hypotheses
- Step Four: Preparing the research design
- Step Five: Data collection
- Step Six: Data analysis
- Step Seven: Interpretation and report v





Where f = feed back(helps in controlling the sub system

ff= feed forward(serves the vital function of providing criter

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#### Step One: Define Research

There are two types of research problem, v

- relate to states of nature
- relationship between variables.

Essentially two steps are involved in deproblem, viz.,

- understanding the problem thoroughly a
- rephrasing the same into meaningful to point of view.



# Step Two: Review of Lite

 Once the problem is define, a brief so should be written down. It is compressed to be a compressed to be a synopsis of topic and submit it committee or the research board for apprenentation.



### Step Three: Formulate Hyp

Formulate hypothesis is tentative assumption order to draw out and test its logical consequences. Hypothesis should be very limited to the piece of research in hand to be tested.

The role of the hypothesis is to guide the delimiting the area of research and to kee right track.



# Step Four: Preparing the Re Design

- The function of research design is to procollection of relevant evidence wi expenditure of effort, time and money.
- Research purpose may be grouped categories, viz., (1) Exploration, (2) Design Diagnosis, and (4) Experimentation.



## Step Five: Data Collectio

• Primary data can be collected through:

By Observation

Through personal interview

Through telephone interview

By mailing of questionnaries

Through Schedules



## Step Six: Data Analysis

The analysis of data requires a number of coperations such as establishment of categories.

#### This stage mainly include:

- Coding
- Editing
- 3. Tabulation



# Step Seven: Interpretation Report Writing

Researcher has to prepare the report of w done by him.

#### Writing of report includes:

- the preliminary pages;
- 2. the main text, and
- the end matter.



# Explain various Research A Business Decision m



•https://www.youtube.co h?v=7AMyRwMC0eo