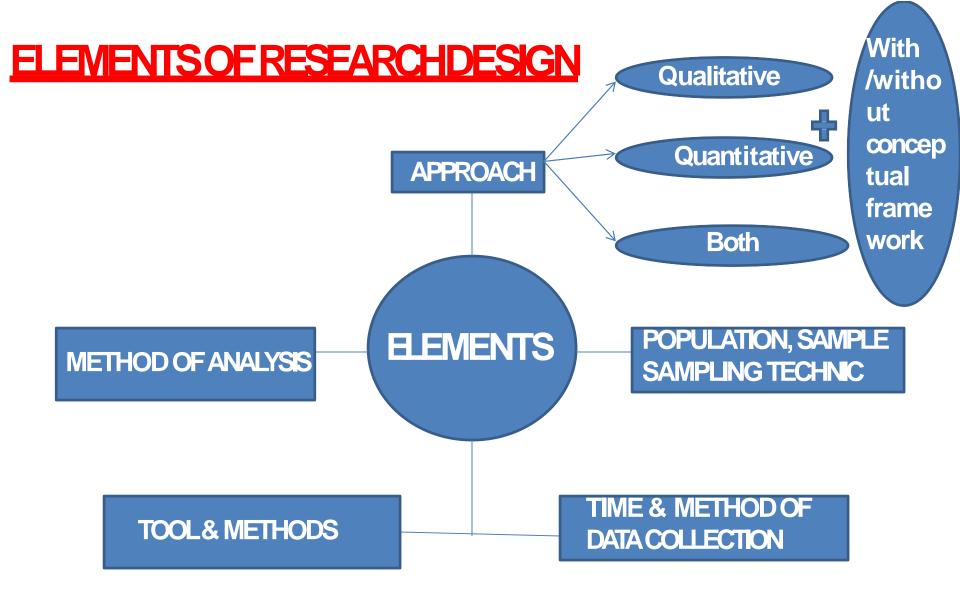
## RESEARCH APPROACH& DESIGN

#### DEFINITION

 The research design is the master plan specifying the methods & procedures for collecting & analyzing the needed information in a research study.  Research design can be defined as a blue print to conduct a research study, which involves the description of research approach, study setting, sampling size, sampling technique, tool & methods of data collection & analysis to answer specific research questions or for testing research hypothesis

 Research design is a plan of how & where data are to be collected & analyzed.  Research design is the researcher's overall plan for answering the research questions or testing the research hypotheses.

# ELEMENTS OF RESEARCH DESIGN



# SELECTION OF RESEARCH DESIGN

• FACTORSAFFECTING RESEARCH DESIGN



- 1. Nature of the research problem.
- 2. Purpose of the study.
- 3. Researcher's knowledge & experience.
- 4. Researcher's interest & motivation.
- 5. Research ethics & principles.

- 6. Subjects & participants.
- 7. Resources.
- 8. Time.
- 9. Possible control on extraneous variables.
- 10. Users of the study findings.

#### VALIDITY OF RESEARCH DESIGNS

- 1. INTERNAL VALIDITY.
- 2 EXTERNAL VALIDITY.

#### INTERNAL VALIDITY

#### THREATSTO INTERNAL VALIDITY

- 1.History.
- 2. Maturation of subjects.
- 3.Testing.
- 4.Instrumentation change.
- 5.Mortality.
- 6.Slection bias.

#### EXTERNAL VALIDITY

#### FACTORS AFFECTING EXTERNAL VALIDITY

- 1. Hawthrone Effect.
- 2.Experimental Effect.
- 3.Reactive effect of pre test.
- 4. Novelty effect.
- 5. People.
- 6. Place.
- 7. Time

# TYPES RESEARCH DESIGN

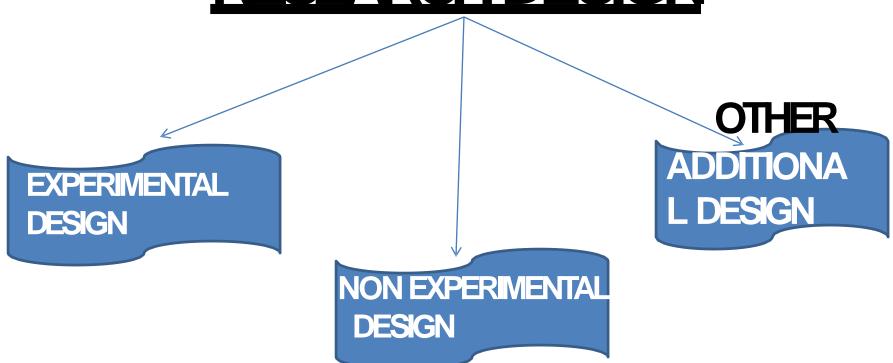


QUANTITATIVE RESEARCH DESIGN

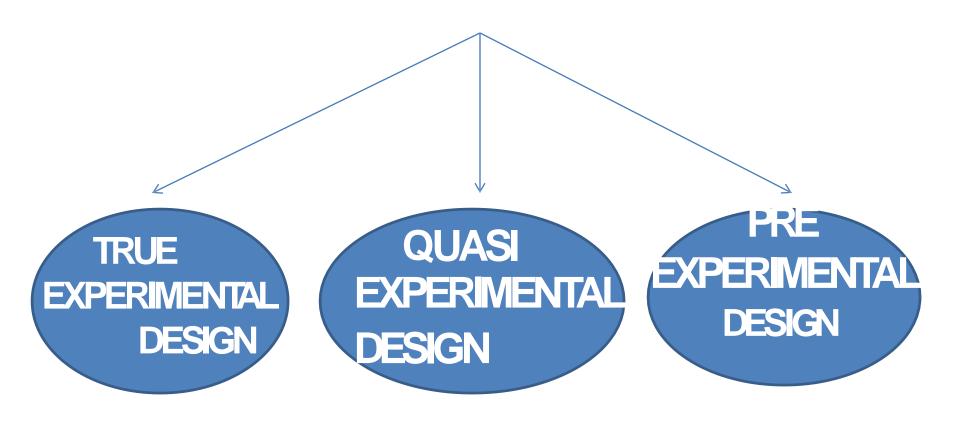
QUALITATIVE RESEARCH DESIGN

### QUANTITATIVE RSEARCH DESIGNS

## TYPESOF QUANTITATIVE RESEARCH DESIGN



#### EXPERIMENTAL DESIGNS



# EXPERIMENTAL RESEARCH DESIGNS

#### **FEATURES**

CATEGORY	RESEARCH DESIGN	FEATURES
EXPERIMENTAL RESEARCH DESIGN	TRUE EXPERIMENTAL DESIGN:  1.Post-test-only control design  2.Pre —test-post test control group design  3.Solomon four-group design  4.Factorial design  5.Randomized block design  6.Cross over design	<ol> <li>MANIPULATION         OF INDEPENCEN         VARIABLE, IN         THE PRESENCE         OF CONTROL         GROUP.</li> <li>RANDOMIZATIO         N</li> </ol>

CATEGORY	RESEAR CH DESIGN	FEATURES
EXPERIMEN TAL RESEARCH DESIGN	QUASI EXPERIMEN TAL DESIGN: 1.Non	1.Manipulatio of independen variable
	randomized control group design.	2.absence of either randomizati on or control
	2.Time series design	group

CATEGORY	RESEAR CH DESIGN	FEATURES
EXPERIMEN TAL RESEARCH DESIGN	EXPERIMEN TAL DESIGN: 1.One shot case design	1.Manipulation of of independent variable
	2.One group pre test post test design	2.Limited control over extraneous variables  3.No randomization &

## NON EXPERIMENTAL RESEARCH DESIGNS

#### DESGNS

CATEGORY	RESEARCH DESIGN
NON EXPERIMENTAL	1.DESCRIPTIVE DESIGN.
RESEARCHDESIGN	2CORRELATIONAL DESIGN/EX POSTFACTO DESIGN
	3DEVELOPMENTAL RESEARCH DESIGN
	4.EPIDEMIOLOGICAL DESIGNS
	5.SURVEY RESEARCHDESIGN

TYPE FEATURE

1.UNIVARIENT
DESCRIPTIVE DESIGN

2EXPLORATORY
DESCRIPTIVE DESIGN

3.COMPARITIVE DESIGN

ACCURATE DESCRIPTION OF CHARACTERISTICS OF INDIVIDUAL, SITUATION, OR GROUP &

THE FREQUENCY WITH WHICH A CERTAIN

PHENOMENON OCCURS
IN A NATURAL SETTING

WITHOUT IMPOSING ANY CONTROLOR MANIPULATION.

#### **FEATURE**

UNIVARIENT
DESCRIPTIVE
DESIGN

Studies under taken to describe the frequency of occurrence of a phenomenon rather than to study relationship

#### **FEATURE**

# EXPLORATORY DESCRIPTIVE DESIGN

Investigating the phenomenon & its related factors about which very little is known

#### FEATURE

# COMPARITIVE DESCRIPTIVE DESIGN

**CPMPARING OCCURANCES OF A PHENOMENON** IN TWO OR **MORE GROUPS** 

#### CORRELATIONAL DESIGN

## CORRELATIO NAL DESIGN

FEATURE

1.PROSPECT IVE DESIGN

2.RETROSPEC TIVE DESIGN

**EXAMINING THE** RELATIONSHIP **BETWEENTWO OR** MORE VARIABLES IN A **NATURAL SETTING** WITH OUT **MANIPULATION OR CONTROL**( CAUSE& EFFECT RELATIONSHIP)

#### **DEVELOPMENTAL RESEARCH DESIGN**

DEVELOPMENTAL RESEARCH DESIGN	FEATURE
1. CROSSSECTIONAL DESIGN	EXAMINING THE PHENOMENON IN RESPECTTO THE TIME.
2. LONGITUDINAL DESIGN	1.CROSS SECTIONAL: Examining the phenomenon only at one point in time. 2.LONGITUDINAL: Examining the phenomenon at more than one point in time.

#### EPIDEMIOLOGICAL DESIGNS

EPIDEMIOLOGI CAL DESIGN	FEATURE
1.CASE CONTROL STUDIES	THE INVESTIGATION OF DISTRIBUTION
2COHORT STUDIES	& CAUSESOF DISEASES IN A POPULATION

#### SURVEY RESEARCH DESIGN

<b>SURVEY RESEARCH</b>	
DESIGN	

**FEATURE** 

SURVEYSTUDIES ARE
INVESTIGATION IN WHICH
SELFREPORTED DATA ARE
COLLECTED FROM
SAMPLE .....WITH THE

PURPOSE OF DESCRIBING
POPULATION ON SOME
VARIABLES OF INTEREST

## OTHER ADDITIONA L DESIGN

#### **DESIGNS**

CATEGORY	RESEARCHDESIGN
OTHER ADDITIONAL	1. METHODOLOGICAL STUDIES
RESEARCH DESIGNS	2 META ANALYSIS
	3.SECONDARY DATA ANALYSIS
	4.OUTCOME RESEARCH
	5.EVALUATION STUDIES
	6.OPERATIONAL RESEARCH

#### **CATEGORY** RESEARCHDESIGN OTHER ADDITIONAL 7.PHENOMENOLOGICAL RESEARCH DESIGNS RESEARCH 8.ETHNOGRAPHIC RESEARCH 9.GROUNDED THEORY 10.CASE STUDIES. 11.HISTORICAL RESEARCH 12.ACTION RESEARCH

#### METHODOLOGICAL STUDIES

METHODOLOGI CAL STUDY	FEATURE
	RESEARCH
	CONDUCTED TO
	DEVELOP, TEST&
	EVALUATETHE
	RESEARCH
	INSTRUMENTS &
	METHODS

# META ANALYSIS

META ANALYSIS	FEATURE
	QUANTITATIVELY
	COMBINING &
	INTEGRATING THE
	FINDINGS OF THE
	MULTIPLE
	RESEARCHSTUDIES
	ON A PARTICULAR
	TOPIC

## SECONDARY DATA ANALYSIS

SECONDARY DATA ANALYSIS	FEATURE
	A RESEARCHDESIGN IN WHICH THE DATA COLLECTEDIN ONE RESEARCHIS RE ANALYZED BY ANOTHER RESEARCHER, USUALLY TO TESTA NEW HYPOTHESIS

# OUT COME RESEARCH

OUT COME RESEARCH	FEATURE
	OUTCOME RESEARCH
	INVOLVESTHE
	EVALUATION OF CARE
	PRACTICES & SYSTEMS
	IN PLACE.
	IT IS USED IN NURSING
	TO DEVELOP
	EVIDENCED BASED
	PRACTICE & IMPROVE
	NURSING ACTIONS

# EVALUATION STUDIES

EVALUATION STUDIES	FEATURES
	IT IS A RESEASECH
	<b>DESIGN WHICH</b>
	INVOLVESTHE
	JUDGMENT ABOUT
	SUCCESSOFA
	PROGRAMMES,
	PRACTICES,
	PROCEDURES, OR
	POLICIES

## OPERATIONAL RESEARCH

OPERATIONAL RESEARCH	FEATURE
	INVOLOVES THE STUDY OF
	COMPLEXHUMAN
	ORGANIZATIONS &
	SERVICES TO DEVELOP
	NEW KNOWLEDGE ABOUT
	INSTITUTIONS,
	PROGRAMMES, USE OF
	FACILITIES & PERSONNEL
	IN ORDER TO IMPROVE
	WORKING EFFICIENCY OF
	AN ORGANIZATION

# QUALITATIVE RESEARCH DESIGNS

#### PHENOMENOLOGICAL RESEARCH

PHENOMENOLOGICAL RESEARCH	FEATURE
	<b>PHENOMENOLO</b>
	GIC ALRESEARCH
	<b>EXAMINES HUMAN</b>
	EXPERIENCES
	THROUGH THE
	DESCRIPTIONS
	PROVIDED BY
	PEOPLE INVOLVED.

## ETHNOGRAPHIC RESEARCH

ETHNOGRAP HIC RESEARCH	FEATURES
	INFORMATION COLLECTED FROM CERTAIN CULTURAL GROUPS, BYLIVING WITH PEOPLEOF THOSE GROUPS & FROM THEIR KEY INFORMANTS, WHO ARE BELIEVED TO BETHE MOST KNOWLEDGEABLE ABOUT THE SELECTED CULTURE

## **GROUNDED THEORY**

GROUND ED THEORY

**FEATURES** 

GROUNDED THEORY Theory is developed inductively from a corpus of data acquired by a participant ohearvar

## **CASESTUDIES**

CASESTUDIES	FEATURES
CASESTUDIES	Research on a phenomenon by studying in depth a
	single case example. The case can be an individual person, an event, a group or
	an institution.

## HISTORICAL RESEARCH

HISTORICAL RESEARCH	FEATURE
HISTORICAL RESEARCH	Systematic collection & objective evaluation of data related to past occurrences in order to test hypotheses  concerning causes,
	effects, or trends of these events that may help to explain present events & anticipate future events.

## ACTION RESEARCH

ACTION RESEAR CH **FEATURES** 

ACTION RESEARCH Seeks action to **improve** practices & study the effect of the action that was taken

