



RAMA UNIVERSITY

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FACULTY OF ENGINEERING & TECHNOLOGY

MCS-043 Research Methodology

Lecture-02

Mr. Dilip Kumar J Saini

Assistant Professor

Computer Science & Engineering

OUTLINE

➤ **WAYS OF KNOWING**

➤ **RESEARCH PROCESS CYCLE**

➤ **TYPES OF RESEARCH**

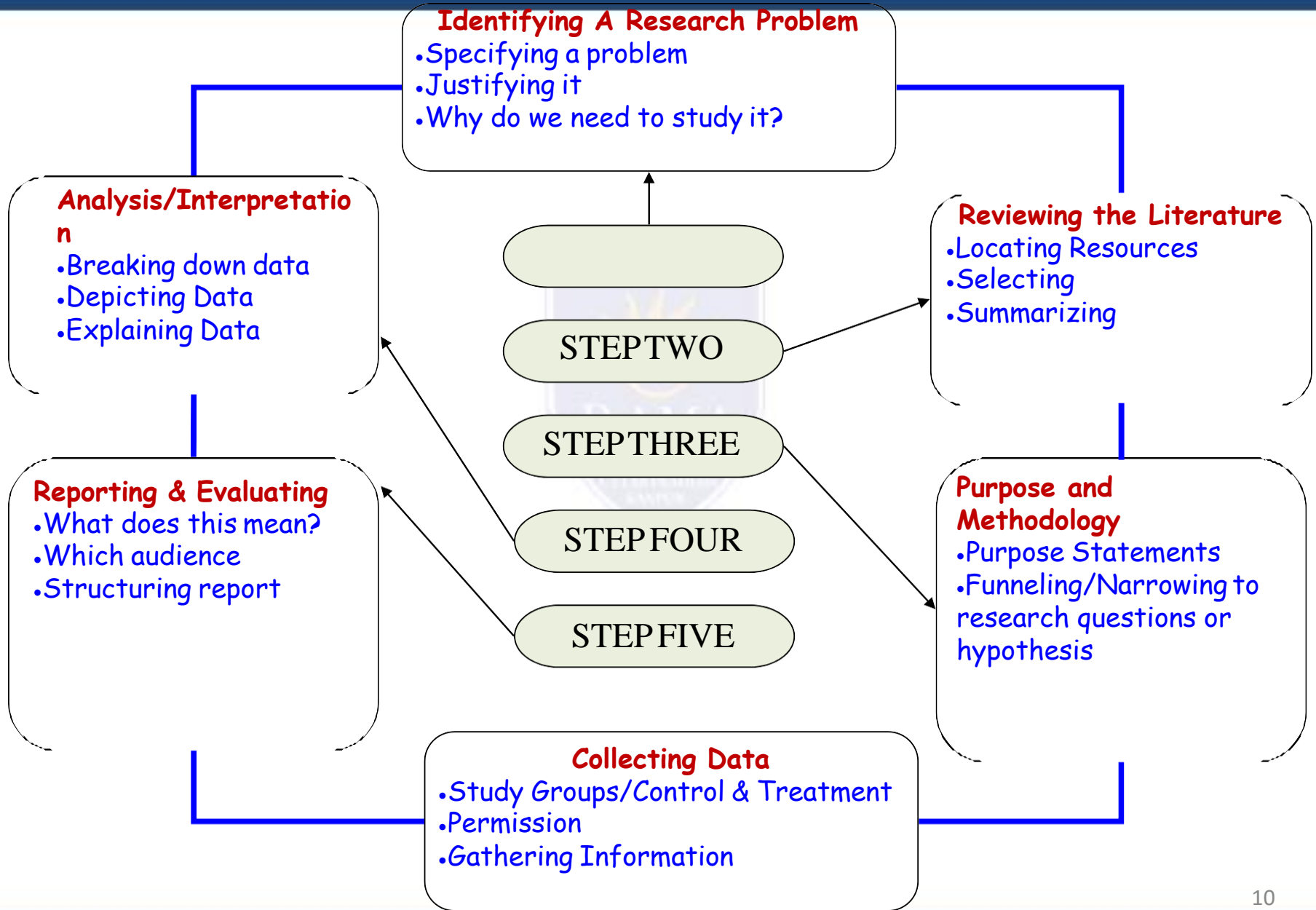


FIVE WAYS OF KNOWING

- **Personal experience**
- **Tradition**
- **Experts and authorities**
- **Logic**
 - Inductive
 - Deductive
- **The scientific method**

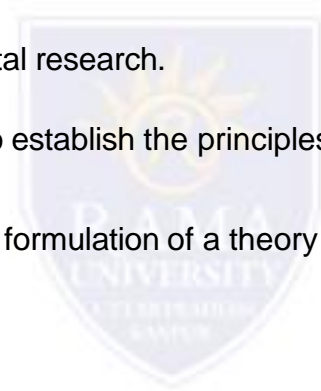


RESEARCH PROCESS CYCLE



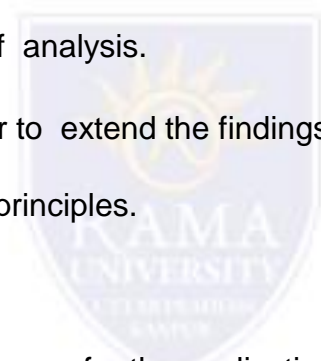
BASIC RESEARCH :

- This is also called pure research or fundamental research.
- Its aim is to discover the basic truth and thus to establish the principles.
- Basic research is primarily concerned with the formulation of a theory or a contribution to the existing body of knowledge.



BASIC RESEARCH :

- It represents a rigorous and structured type of analysis.
- --It employs careful sampling procedures in order to extend the findings beyond the group or situation and thus develops theories by discovering proved generalization or principles.
- --The results of this research are not directly
- applicable in the field situations or it has little concern for the application of the findings or social usefulness of the findings.



TYPES OF RESEARCH

APPLIED RESEARCH :

is directed towards the immediate, specific and practical problems. It is performed in relation to actual problem and under the conditions in which they are found in practice.

IN ACTION RESEARCH, emphasis is more on action or practical work than on theory. Here questions of day to day life situations are taken up with the view to improve the practical situations. Thus action research is similar to applied research in many ways. Applied research involves a large number of samples as compared to the action research.

Action research is carried out by teachers, principals or head masters of education institutions, administrators, supervisors.

Action research is restricted to class room practices. All most every teacher faces a number of problems in the class room situations which need immediate solutions, For example: The problem may be : Poor English spelling of the students, Poor Hand writing, The problem of indiscipline and the problem of slow learner etc.

“It is a type of research in the field of education, which is undertaken by educational practitioners to under stand or solve the problems of the local school and community”

- Stephen M.Correy

Multiple Choice Question

MUTIPLE CHOICE QUESTIONS:

1. Scientific method is committed to

- a) Objectivity b) Ethics c) Proposition d) Neutrality

2. "One of the methods of logical reasoning process" is called

- a) Induction b) Deduction c) Research d) Experiment

3. An essential Criterion of Scientific study is

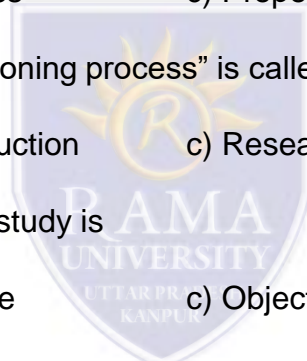
- a) Belief b) Value c) Objectivity d) Subjectivity

4. "Reasoning from general to particular" is called

- a) Induction b) deduction c) Observation d) experience

5. "Deduction and induction are a part of system of reasoning" – stated by

- a) Caroline b) P.V. Young c) Dewey John d) Emory



REFERENCES

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3. Best, J.W. and Kahn, J (1997) Research in Education (7th Ed) New Delhi: Prentice-Hall of India Ltd.

