**BAC**

Part 1:

Fundamantals of Research

Steps Involved in Research Process

Part 2:

Organization of Journal / Thesis

Choice of Journal

Conference vs. Journal Publications

Part 3:

Publication Ethics

**What is Research?**

* Research is a systematic way of
  + Collecting,
    - Analyzing
      * Interperting Data,
* to find answers to questions concerning occurrence of
  + Events
    - Phenomena
      * Conditions
        + Situations
* Facilitate conclusive statements (inferences), and perhaps discover scientific laws
* A careful investigation or inquiry especially through search for new facts in any branch of knowledge, thus making original contribution to the existing stock of knowledge for ist advertisement
* Pursuit of truth with the help of study, observation, comparision and experiment.
* Scientific and systematic search for pertinent information on a specific topic concerning generalization and the formulation of theory
* Search for knowledge through objective and systematic method of finding solution to a problem.

**Meaning of Research**

* The search for knowledge through objective and systematic method of finding solution to a problem is Research.
* The systematic approach concerning generalization and the formulation of a theory is also Research.
* Refers to:
  + Enunciating the problem
  + Formulating a hypothesis
  + Collecting the facts or data
  + Researching certin conclusions either in the form of
    - Solution(s) towards the concerned problem (and/or)
    - Certain generalizations for some theoretical formulation

**Research Tasks**

Refers to

* Enunciating the problem
* Formulating a hypothesis
* Collecting the facts or data
* Analysing the facts or data
* Reaching certain conclusions either in the form of
  + Solution(s) towards the concerned problem (and/or)
  + Certain generalizations for some theoretical formulation

**What does that mean?**

* Identifying goals, questions and measures (metrics)
* Choosing research method(s)
* Planning, designing, and carry out investigations
* Data collection
* Data Analysis
* Results, Validity consideration

Research Objectives

* Research is a careful and detailed study of a particular problem or concern, using scientific methods. Find out reality and facts which is unknown and which has not been exposed.
  + The purpose of research is to discover answers to questions through the application of scientific procedures.
* Research aim specifies WHAT needs to be studied and
* Research objectives specifies a number of steps that address HOW research aim will be achieved.