



Introduction & overview of the course

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Basic Research Methods NUR 308

1st week

31/1/2024



Outline

- Aim & objectives of the course
- Course Syllabus & schedule
- Definition of the Research
- Objectives of the research
- Motivation in research
- Criteria of good research
- Research methods
- Steps of scientific research



Objectives

- To describe the content of the course to the students.
- To familiarize students with the meaning of research, motivation in research, objectives of research and criteria of good research.



Aim of the course

To introduce concept and basic principles of conducting health research.



Objectives of the course

By the end of this course the students should be able to:

- Formulate and clarify research topic .
- Choose the study participants through applying different inclusion & exclusion criteria.
- Understand different types of health research.
- Critically reviewing literature .



Objectives of the course (Cont.)

- Construct appropriate questionnaire for data collection.
- Write different styles of referencing.
- Write research proposal and conduct a study.



Syllabus

- Course length: 15 weeks (including mid-course examination)
- Course language: English
- Assessment (grading):
 - Mid course exam : 30%
 - Quizzes :10%
 - Attendance and class activity: 10%
 - Homework: 10%
 - End of course exam: 40%

- **Course Reading List:**

Comprehensive notes are provided

Extra reading

- Bob Mathews & Liz Ross. *Research Methods*, a practical guide for the social sciences. Pearson Education limited 2010. England.
- Jonathan Grix. *The Foundation of Research*. Palgrave Macmillan 2004. London.
- Geoffrey Marczyk, David DeMatteo& David Festinger. *Essentials of Research Design & Methodology*. John Wiley & Sons, Inc 2005. New Jersey.
- RL Bijlani. *Medical Research*. Jaypeebrothers medical publishers (P) limited 2008. New Delhi.

Lecture Schedule

Week No.	Topic
1	Introduction & overview of the course
2	Research question
3	Choosing the study participants
4	Reviewing of literature
5	Study type part one
6	Study type part two
7	Mid term examination
8	Study type part 3
9	Designing of the questionnaire
10	Research ethics
11	Writing references-Vancouver style

Lecture Schedule

Week No.	Topic
12	Writing references-Harvard style
13	Writing research proposal
14	Writing an article
15	End course examination



Examination

The examinations that will be held during the course include:

- Quizzes - during the sessions
- Mid-course exam
- End of course exam



What is Research?

The systematic method consisting of enunciating the problem, formulating a hypothesis, collecting the facts or data, analyzing the facts and reaching certain conclusion either in the form of solutions towards the concerned problem or in certain generalizations for some theoretical formulation.



Objectives of the research

- Find out truth which is hidden, and which has not been discovered yet.
- Gain familiarity with a phenomenon or to achieve new insights into it.
- Portray accurately the characteristics of a particular individual, situation or a group.



Objectives of the research(Cont.)

- Determine the frequency with which something occurs or with which it is associated with something else.
- Test a hypothesis of a casual relationship between variables.



Motivation in research

- Research degree along with its consequential benefits.
- Face the challenge in solving the unsolved problem.
- Get intellectual joy of doing some creative work.
- Service to society.
- Get respectability.



Criteria of good research

- Purpose should be clearly defined.
- Common concepts to be used.
- Explain procedure clearly - for continuity.
- Results should be as objective as possible.
- Report with frankness.
- Limitations of the study should be written



Criteria of good research (Cont.)

- Appropriate statistical test of significance.
- Reliable outcome measures.
- Justify conclusions with data.
- Experienced researcher.
- Systematic.
- Logical.



Research methods

- A systematic way to solve the research problem .
- Science of understanding how research is done.
- Refer to the methods the researchers use in performing research operations.
- Study various steps adopted by a researcher



Research methods(Cont.)

- Researchers should know the relevant method, and which are not.
- Consider the logic behind the methods we use in the context of our research study.
- Explain why we are using a particular method and why we are not using others, so that research results are capable of being evaluated by the researcher himself or by others

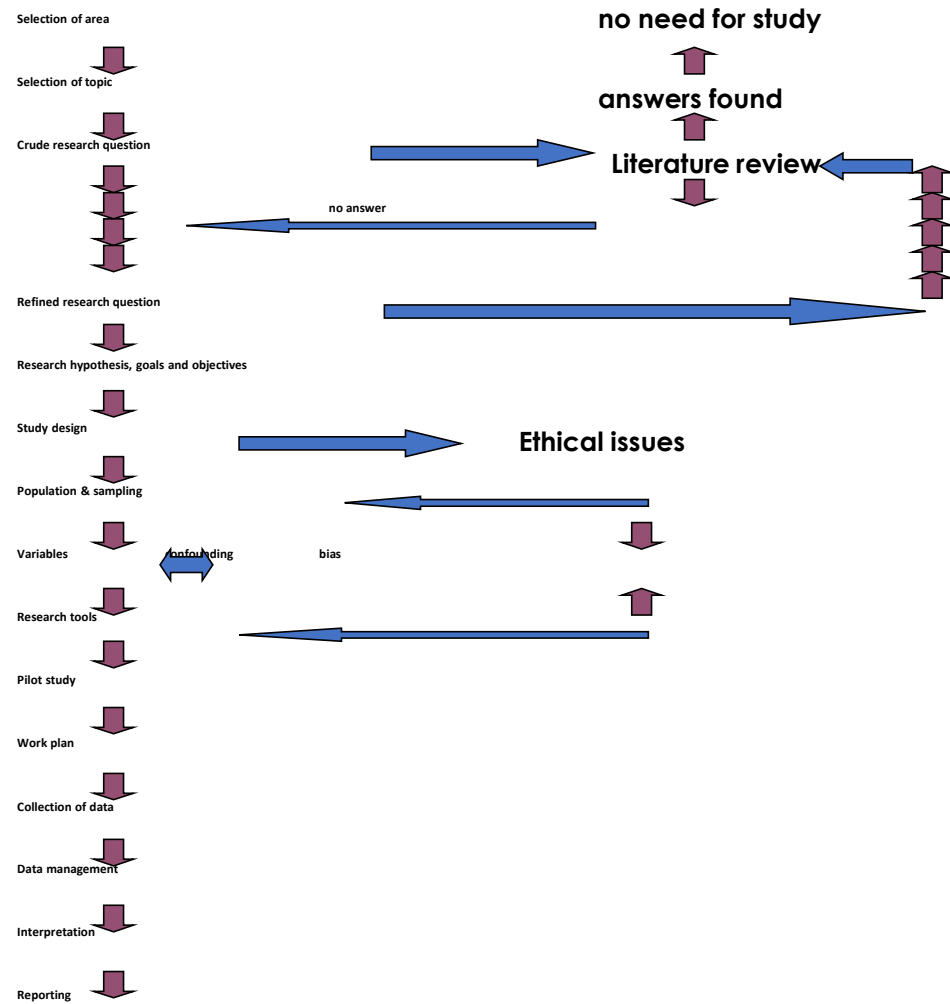


Research methods(Cont.)

Put into 3 groups,

- 1.Methods which are concerned with data collection.
- 2.Statistical techniques for establishment of relationship b/w data & unknown.
- 3.Evaluating the accuracy of results obtained.

Steps of Scientific Research





References

1. Bob Mathews & Liz Ross. *Research Methods*, a practical guide for the social sciences. Pearson Education limited 2010. England.
1. Jonathan Grix. *The Foundation of Research*. Palgrave Macmillan 2004. London.
2. Geoffrey Marczy k, David DeMatteo& David Festinger. *Essentials of Research Design & Methodology*. John Wiley & Sons, Inc 2005. New Jersey.
3. SK Gupta. *Basic principles of clinical research & methodology*. Jaypee brothers medical publishers (P) limited 2007. New Delhi.
4. RL Bijlani. *Medical Research*. Jaypee brothers medical publishers (P) limited 2008. New Delhi.
5. Mohit Bhandari &ParagSanchesti. *Clinical Research made easy, a guide to publishing in medical literature*. Jaypee brothers medical publishers (P) limited 2010. New Delhi.
6. Yugish Kumar Singh. *Fundamental of Research Methodology & Statistics*. New Age International Publishers 2006. New Delhi.
7. Catherin Dawson. *Practical Research Methods, A user-friendly guide to mastering research*. British Library Cataloguing in Publication Data 2002. UK.

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