



FOURTH SEMESTER P.B.B.SC.

Subject: Introduction to Nursing Research and Statistics

Total Hours: 45 (Theory) +120 (Practical)

Faculty: Ms.Sucheta Yangad and Mr. Girish Tithe

SECTION A- INTRODUCTION TO RESEARCH METHODOLOGY

Unit	Hours	Content	Lesson in Hours	Lesson Series
I	4	<ul style="list-style-type: none">• Research definition• Steps of scientific methods• Need for nursing research• Characteristics of good research. Research process	1 1 1 1	1 2 3 4
II	8	<ul style="list-style-type: none">• Statement of research problem• Statement of purpose and objectives• Definition of research terms• Review of literature	2 2 2 2	6 8 10 12
III	3	<ul style="list-style-type: none">• Research approaches:- historical, survey and experimental	3	15
IV	8	<ul style="list-style-type: none">• Sampling Techniques and methods of data collection.• Sampling• Instruments-questionnaire. Interview• Observation schedule. Records, measurements• Reliability and validity of instruments.	2 1 1 2 2	17 18 19 21 23
V	5	<ul style="list-style-type: none">• Analysis of Data:<ul style="list-style-type: none">- Tabulation- Classification and summarization- Presentation- Interpretation of data	1 2 1 1	24 26 27 28
VI	2	<ul style="list-style-type: none">• Communication of research findings• Writing Report:<ul style="list-style-type: none">- Organizing materials for writing- Format of the report- Use of computers	1 1	29 30

SECTION: B INTRODUCTION TO STATISTIC

VII	6	DESCRIPTIVE STATISTIC <ul style="list-style-type: none"> • Frequency distribution - types of measure – frequencies, class interval, graphic methods of describing frequency • Measures of central tendency - Mode, Median and Mean • Measures of variability : range, Standard deviation • Introduction to normal probability 	2	32
			2	34
			1	35
			1	36
VIII	5	DESCRIPTIVE STATISTIC <ul style="list-style-type: none"> • Correlation • Computation by rank difference methods • Uses of correlation co-efficient 	2	38
			2	40
			1	41
IX	2	BIOSTATISTIC <ul style="list-style-type: none"> • Crude rates and standardized rates • Ratio and estimation of the trends 	1	42
			1	43
X	2	<ul style="list-style-type: none"> • Basics of hardware and software • Windows application Word, Excel and Power Point, Multi Media • Introduction to Database • Use of statistical packages • Introduction to internet & use of electronic mail • Computer aided teaching & testing 	1	44
			1	45

PRACTICUM

Total Hrs. 120

- Selecting and conducting small group research project (The number of students in a group can be decided depending on the availability of Nursing faculty and interest of the students)
- Group studies may include, studying existing health problem and practices, Nursing procedures, Health records, patients records and survey of nursing literature.

REFERENCES

- 1 Polit, D.F. and Hungler B.P. Nursing Research, Principles and Methods (6thed) Lippincott. Philadelphia, 1999.
2. Best, J.W. and Kahn, V.J. Research in Education (7thed) Prentice - Hall of India, New Delhi, 2001.
3. Smith, P. Research Mindedness for Practice. An interactive approach for Nursing and Health Care, Churchill Livingstone, New York, 1997.
4. Brink P.J. & Wood, M.J. Basic steps in Planning Nursing Research from Questions to Proposal (3rded) Jones and Barlett Publishers, Boston, 1998.
5. Basavanthappa, B.T. Nursing Research. Jay Pee, Mumbai.
6. Singh I, Elementary Statistics for Medical Workers, 1st ed., Jaypee brothers Medical Publishers (P) Ltd., Delhi, April 1990.
7. Polit, D.F. & Beck, C.T., Nursing Research - Principles & Methods, 7th ed., Lippincott Williams & Wilkins, USA, 2004.
8. Burns, N. & Grove, S.K., The Practice of Nursing Research - conduct, Critique & utilization, 2nd ed., W.B. Saunders Company, USA, 1993.
9. Treece E. W. & Treece J. W. : Elements of Research in Nursing St. Louis 1986

EVALUATION:

Pape r	Subject ** Introduction to Nursing Research Statistics	Duration	Internal Assessmen t	External Assessm ent	Total Marks
15.	**Theory	2	50 College level qualifying exam, minimum passing Marks 50%		050
6.	**Research Project		50 College level qualifying exam, minimum passing Marks 50%		050

Note: ** College level qualifying exam to appear in University Examination, minimum passing Marks 50%. (Not University Examination)

Internal Assessment:

100 Mark

(Out of 100 Marks to be send to the University)

Unit Test –I: 25 Marks (15 marks research + 10 marks statistics)

Pre-Final: 75 Marks (55 marks research + 20 marks statistics)

Practical – Research Project:

50 Mark