

DR.D.Y.PATIL COLLEGE OF NURSING, PIMPRI, PUNE-18.

P.B.B.Sc. Second Year Lesson Plan

Subject: Introduction To Nursing Research Statistics Total = 45 (Theory) +120 (Practical)

Faculty:.

Unit	Hours	Content	Lesson in Hours	Lesson Series
I	2	INTRODUCTION - Research definition - Method of acquiring knowledge - Problem solving and scientific method - Research characteristics, purpose, scope - Steps in Research methodology.	} 1 } 1	1 2
II	4	RESEARCH AND NURSING - Development of research in nursing - Purpose, scope and need of nursing research - Areas of nursing research i.e. practice, service, administration and education, health and social research - Ethics in research	1 1 1 1	3 4 5 6
III	3	RESEARCH DESIGN - Overview of research process - Statement of the problem and research objectives - Definitions of terms variables, assumptions, operational definition, limitation, delimitation, hypothesis-definitions, formulation and types	1 1 1	7 8 9
IV	2	REVIEW OF LITERATURE - Search for library resources - Criteria for selection of resources - Practical application of review of literature	1 1	10 11
V	4	RESEARCH APPROACHES (CLASSIFICATION & TYPES) - Non experimental - Survey - characteristics, types, advantages and disadvantages - Historical - sources of data, characteristics, advantages and disadvantages - Experimental - characteristics, types, advantages and disadvantages	} 2 2	13 15
VI	2	SAMPLE & SAMPLING TECHNIQUE - Definition of population and sample - Sampling and randomness; kinds and size of samples - Probability and non probability sample	} 2	17

VII	7	METHODS OF COLLETING DATA		
		- Preparation of tools	1	18
		- Types of instruments for data collection		
		- a) Questionnaire : Opinionnaire, Interview schedule	1	19
		- b) Observation: records, observation checklist, rating scales.		
		- Machineries, video tapes, films, closed circuit T.V. etc.	1	20
		- c) Measurements : Physiological measurement, Physical, Chemical, Microbiological etc., Psychological measurement	1	21
		Psychomotor skill test, personality test, Intelligence test, Sociological test, Socio economic standard scale, Sociometry, Health status measurement	1	22
		- Characteristics of good research tool	1	23
		- Testing reliability and validity of tool	1	24
VIII	2	IMPLEMENTING RESEARCH PLAN		
		- Data collection procedure and conditions for administration of tool	2	26
IX	2	DATA ANALYSIS AND INTERPRETING		
		- Types of data, data organization, tabulation, analysis and summarization	1	27
		- Structure of statistical methods : interpretation and presentation of data	1	28
X	2	COMMUNICATION OF RESEARCH FINDING		
		- Writing research report - composition, organization and format	1	29
		- Application of results; critical analysis of research report and public	1	30
XI	8	DESCRIPTIVE STATISTIC		
		- Frequency distribution - types of measure - frequencies, class, interval, graphic methods of describing frequency	2	32
		- Measures of central tendency - Mode, Median and Mean	1	33
		- Measures of variability : range, Standard deviation	1	34
		- Introduction to normal probability	1	35
		- Correlation	1	36
		- Computation by rank difference methods	1	37
- Uses of correlation co-efficient	1	38		
XII	2	BIOSTATISTIC		
		- Crude rates and standardized rates, ratio and estimation of the trends.	2	40
XIII	5	INTRODUCTION TO COMUTERS IN NURSING		
		- Basics of hardware and software	1	41
		- Windows application Word, Excel and Power Point	2	44
		- Introduction to Database	1	45

- 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 – for Nursing Research

1. Basavanthappa, B.T., Nursing Research, Jaypee Brothers, New Delhi, 2003.
2. Garrett, H.E. Statistic in Psychology & education. Vakils, Feffer and Samons, Bombay.
3. Mahajan, B.K. Methods in Biostatistics, Jyppe. 6th ed.1999.
4. Rose Hott & Budin. Notter's Essentials of Nursing Research 5th ed. spinger publisher, Newyork. 1999
5. Patricial Nunhall. Nursing Research 3rd ed. James & Bar. 2001. Canada
6. Caroly M.H. Research methods for clinical Therapists Applied project design and analysis second ed.1999. Churchill Livingstone.
7. P.K. Indrani, T.K. Research Methods for Nurses. Jyppe, 2005.
8. Clifford etal, Getting Research into Practice, Churchill Livingstone, New York, 2004.
9. Freshwater, D & Bishop, V, Nursing Research In Context, Palgrave Macmillan, New York, 2004.
10. Freshwater, D & Bishop, V, Nursing Research In Context, Palgrave Macmillan, New York, 2004.
11. Macnee, C L ,Understanding Nursing Research: Reading & Using Research in Practice, Lippincott Williams, Wilinks, London. 2004.
12. Polit, D.F.& Beck, C.T.,Nursing Research Principles & Methods, 7th Ed, Lippincott Williams Wilkins,New York,2004.
13. Burns & Grovo. Under standing Nursing Research. 4th ed. Elsevier. 2007
14. Polit, Beck & P. Hungler" Nursing Research methods, Appraisal & Utilization" 5th edition 2001, Lippincott.
15. Specials & Carpenter Qualitative Research in Nursing Advancing the H amanistic imperative 4th ed. Lippincott Williams. 2007

Journals:

- 1 Journal of nursing practice and research.
- 2 Indian journal of medical ethics.