



Dr. D.Y. Patil Vidyapeeth's

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Fourth Year BSc. Nursing

Subject: - Nursing Research and Statistics

Faculty: - Ms. Seema Chavan

UNIT	TOPIC	Number of lecture	Lecture Serial No
1 Research and research process	••Introduction and need for nursing Research.	1	1
	••Definition of Research & nursing research.	1	2
	••Steps of scientific method.	1	3
	••Characteristics of research.	1	4
	••Steps of research process –overview	1	5
2 Research Problem/ Question	••Identification of problem area &Problem statement.	1	6
	Stating objectives of the research problem.	2	7-8
3 Review of Literature	• Steps in review of literature • Identification of Publication	1	9
	• Keeping a record • Writing the review of literature • Writing of Bibliography	1	10
	••Historical, survey and experimental ••Qualitative and Quantitative designs	1 3	11 12-14
4 Research approaches and designs	••Definition of Population, Sample, Sampling criteria, factors influencing sampling process, types of sampling Techniques.	4	15-18
	••Data collection Methods and instruments 1) Questionnaire, interview, records & reports and other techniques 2) Validity & Reliability of the instrument 3) Pilot Study	4	19-22
5 Sampling and data collection	• Definition, use of statistics, scales of Measurement	2	23-24
	• Frequency distribution and graphical presentation of data	2	25-26
	• Mean, Median, Mode, standard deviation	2	27-28
6 Introduction to statistics			

	• Normal probability and tests of Significance	2	29-30
	• Coefficient of correlation	3	31-33
	• Inferential statistics and types	2	34-35
	• Statistical packages and its application	2	36-37
7 Analysis of Data	••Compilation, Tabulation	2	38-39
	••Classification, summarization, presentation, interpretation of data	2	40-41
8 Communication and utilization of Research	• Communication of research findings	1	42
	• Verbal report	1	43
	• Writing research report	1	44
	• Writing scientific article/ paper- Critical review of published research & Utilization of research findings	1	45

Research Project work to be carried out during internship

Internal assessment

Sr. No.	Theory	Marks
1	Mid term	25
2	Prefinal	25
	Total marks	50

Sr. No.	Assignments	Marks
1	Group project	50

References

1. Polit, D.F. & Beck CT, Nursing Research, Principles and Methods,7th ed, Lippincott Williams & Wilkins,Philadelphia, 2003.
2. Polit Dennis and Hunglar B P, Nursing research principles and methods, 6th edition Lippincott, Philadelphia, 1999.
3. Laura A.Talbot, Principles and practice of nursing research, Mosby St. Louis 1995.
4. DorothyYB & Marie TH, Fundamentals of research in Nursing, 3rd ed,Jones & Bartlett Publishers,Boston,2003.
5. Rao TB, Methods in Medical Research, 1st ed, Radha Rani Publishers, Guntur AP, 2002.
6. Smith, P ResearchMindedness for Practice> An interactive approach for nursing and health care, Churchill livingstone, New York, 1997
7. American Psychological Association publication manual. 2001.
8. Mahajan Methods in Bio statistics.
9. Trece E.W. & Treece JW: Elements of Research in Nursing, 3rd ed The CV Mosby CompanySt, Louis 1986