

Nursing Research & Statistics

Subject code: 1NR1010304	Subject Title: Nursing Research & Statistics
Pre-requisite	----- NA-----

Course Description:

The Course is designed to enable students to develop an understanding of basic concepts of research, research process and statistics. It is further, structured to conduct/participate in need based research studies in various settings and utilize the research findings to provide quality nursing care. The hours for practical will be utilized for conduct individual/group research project.

Teaching Scheme (Total Hours)				Evaluation Scheme (Marks)				
Lecture	Tutorial	Practical	Total Hours	Theory		Practical		Total
				University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
45	-	-	45	75	25	-	-	100

Unit	Time	Learning objective	Content	Teaching Learning activities	Assessment Method
I	4	- Describe the concept of research, terms, need and areas of research in nursing. - Explain the steps of research process	Research and research process - Introduction and need for nursing research Definition of Research & nursing research - Steps of scientific method - Characteristics of good research - Steps of Research process-overview	- Lecture Discussion - Narrate steps of research process followed from examples of published studies	- Short answer - Objective type
II	3	Identify and state the research problem and objectives	Research problem/Question - Identification of problem area - Problem statement - Criteria of a good research problem - Writing objectives	- Lecture Discussion - Exercise on writing statement of problem and objectives	- Short answer - Objective type

III	3	Review the related literature	Review of Literature - Location - Sources - On line search; CINHAI, COCHRANE etc. - Purposes - Method of review	- Lecture Discussion - Exercise on reviewing one research report/article for a selected research problem. - Prepare annotated bibliography	- Short answer - Objective type
IV	4	Describe the research and designs	Research approaches designs - Historical, survey and experimental - Qualitative and Quantitative designs	- Lecture Discussion - Explain types of research approaches used from examples published and unpublished research studies with rationale	- Short answer - Objective type
V	8	Explain the sampling process. Describe the methods of data collection	Sampling and data collection - Definition of population, sample, sampling criteria factors influencing sampling process, types of sampling techniques. - Data-why, what, from whom, when and where to collect. - Data collection methods and instruments: - Methods of data collection - Questioning, interviewing - Observations, record analysis and measurement - Types of instruments - Validity & Reliability of the instrument - Pilot study	- Lecture Discussion - reading assignment on examples of data collection tools. - Preparation of sample data collection tool. - Conduct group research project	- Short answer - Objective type
VI	4	Analyze, interpret and summarize the research data	Analysis of data: Compilation, tabulation, Classification, summarization, presentation, interpretation of data.	- Lecture Discussion - Preparation of sample tables	- Short answer - Objective type
VII	15	- Explain the use of statistics, scale of measurement and graphical presentation of data - Describe the	Introduction to statistics - Definition, use of statistics, scales of measurement - Frequency distribution and graphical presentation of data - Mean, Median, Mode,	- Lecture Discussion - Practice on graphical presentations - Practice on computation of measures of central	- Short answer - Objective type

		measures of central tendency and variability and methods of correlation	Standard deviation • Normal probability and tests of significance. Co-efficient of correlation • Statistical packages and its application	tendency, variability & correlation	
VIII	4	• Communicate and utilize the research findings	Communication and utilization of research. Communication of research findings - O Verbal report - O Writing research report - O Writing scientific article/paper - Critical review of published research - Utilization of research findings	• Lecture - Discussion • Read/Presentations of a sample published/unpublished research report • Writing group research project	• Short answer • Objective type • Oral presentation • Assessment of group research project