

Subject Code: 1NR1020206	Subject Title: INTRODUCTION TO NURSING RESEARCH AND STATISTICS
Pre-requisite	-----NA-----

Course Description

The course is designed to assist the students to develop an understanding of basic concepts of research and statistics, use the findings of nursing research in nursing practice, apply the knowledge in conducting projects(s) and solve problems related to nursing using scientific method.

Teaching Scheme (Total Hours)			Evaluation Scheme (Marks)				
Lecture	Practical	Total Hours	Theory		Practical		Total
			University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
45	120	165	-	50	-	50	100

Course Content:

UNIT NO	HOURS	Learning Objective	COURSE CONTENT	TEACHING LEARNING ACTIVITIES	ASSESSMENT
I	4	Defines the research definition	A. INTRODUCTION TO RESEARCH METHODOLOGY * Steps of scientific methods. * Definition of research * Need for nursing research * Characteristics of good research. Research process.	• Chalkboard • Transparency	➤ Assignments ➤ Unit tests, ➤ Objectives ➤ Type
II	4	Discuss the Definition or research terms and Review of literature.	Statement of research problem * Statement of purpose and objectives * Definition or research terms * Review of literature.	• Chalkboard • Transparency • PowerPoint	➤ Assignments ➤ Short Answers ➤ Objectives ➤ Type
III	4	Discuss Research approaches	Research approaches:- historical, survey and experimental	• Chalkboard • Transparency • PowerPoint	➤ Essay type ➤ Short Answers ➤ Objectives ➤ Type
IV	4	Enlist various Sampling techniques and methods of data collection	Sampling techniques and methods of data collection. * Sampling * Instruments- Questionnaire. Interview * Observation schedule, records, measurements * Reliability and validity or instruments.	• Chalkboard • Transparency	➤ Assignments ➤ Objectives ➤ Type
V	4	Explain the Analysis of Data	Analysis of Data: Tabulation * Classification and summarization * Presentation * Interpretation of data	• Chalkboard • Transparency • PowerPoint • Charts	➤ Assignments ➤ Unit tests, ➤ Essay type ➤ Short Answers

VI	4	Discuss the Communication of research findings	Communication of research findings * Writing Report: * Organizing materials for writing * Format of the report * Use of computers	• Chalkboard • Transparency	➤ Assignments ➤ Unit tests, ➤ Objectives Type
VII	8	Discuss the Measures of central tendency	B.- INTRODUCTION TO STATISTICS * Descriptive Statistics. 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.	• Chalkboard • Transparency • PowerPoint • Charts	➤ Assignments ➤ Unit tests, ➤ Essay type ➤ Short Answers ➤ Objectives ➤ Type
VIII	4	Discuss Correlation	Correlation * Computation by rank difference methods * Uses of correlation co-efficient	• Chalkboard • Transparency	➤ Assignments ➤ Objectives Type
IX	4	Discuss Biostatistics	Biostatistics: Crude rates and standardized rates, ratio and estimation of the trends.	• Chalkboard • Transparency • PowerPoint	➤ Assignments ➤ Unit tests, ➤ Essay type
X	5	Explain the Introduction to computers in nursing	Introduction to computers in nursing * Introduction to computers and disk-operating system. * Introduction to word processing * Introduction to data base * Windows applications, word, excel, power point, multimedia. * Use of statistical packages. * Introduction to internet & use of electronic mail * Computer aided teaching and testing.	• Chalkboard • Transparency • PowerPoint	➤ Assignments ➤ Unit tests, ➤ Essay type

PRACTICUM

- Students will conduct research project in small groups in selected areas of nursing and submit a report (Group studies may include studying of existing health practices, improved practices of nursing (procedures) health records, patient records and survey on nursing literature)