COURSE TITLE	**NURSING RESEARCH & STATISTICS**
COURSE CODE	**20BN0702**
COURSE CREDITS	**4**

Objective:

1. Identify research priority areas, Formulate research questions/problem statement/hypotheses.
2. Review related literature on selected research problem and prepare annotated bibliography.
3. Prepare sample data collection tool, Analyze and interpret the given data.
4. Practice computing, descriptive statistics and correlation.
5. Draw figures and types of graphs on given select data.
6. Develop a research proposal, Plan and conduct a group/individual research project.

Course Outcomes: After completion of this course, student will be able to:

1. Describe the concept of research, terms, need and areas of research in nursing, Explain the steps of research process , State the purposes and steps of Evidence Based Practice, Identify and state the research problem and objectives.
2. Review the related literature, Describe the Research approaches and designs.
3. Explain the Sampling process , Describe the methods of data collection,
4. Analyze, Interpret and summarize the research data.
5. Explain the use of statistics, scales of measurement and graphical presentation of data.
6. Describe the measures of central tendency and variability and methods of Correlation, Communicate and utilize the research findings.

Pre-requisite of course: 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 conducting individual/group research project.

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
2	0	4	75	15	10	0	0

Contents : Unit	Topics	Contact Hours
1	**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, Evidence Based Practice – Concept, Meaning, Purposes, Steps of EBP Process and Barriers	6

Contents : Unit	Topics	Contact Hours
2	**Research Problem/Question** Identification of problem area, Problem statement, Criteria of a good research problem, Writing objectives and hypotheses	2
3	**Review of Literature** Location, Sources, On line search; CINHAL, COCHRANE etc., Purposes, Method of review	2
4	**Research Approaches and Designs** Historical, survey and experimental, Qualitative and Quantitative designs	4
5	**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 o Methods of data collection o Questioning, interviewing o Observations, record analysis and measurement o Types of instruments, Validity & Reliability of the Instrument , Research ethics , Pilot study, Data collection procedure	6
6	**Analysis of data** Compilation, Tabulation, classification, summarization, presentation, interpretation of data	4
7	**Introduction to Statistics** Definition, use of statistics, scales of measurement. , Frequency distribution and graphical presentation of data , Mean, Median, Mode, Standard deviation , Normal Probability and tests of significance , Co-efficient of correlation, Statistical packages and its application	12
8	**Communication and utilization of Research** Communication of research findings, Verbal report , Writing research report , Writing scientific article/paper , Critical review of published research including publication ethics, Utilization of research findings, Conducting group research project	4
Total Hours		**40**

Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
1	**Clinical project** Clinical project	80
Total Hours		**80**

Textbook :

1 TEXTBOOK OF NURSING RESEARCH AND STATISTICS, BHARAT PAREEK , RAMAN KALIA, VHS PUBLISHERS, 2024

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References:

1 TEXTBOOK OF NURSING RESEARCH AND STATISTICS, TEXTBOOK OF NURSING RESEARCH AND STATISTICS, S.K SHARMA, ELSEVIOR PUBLISHERS , 2017

Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery and evaluation					
Remember / Knowledge	**Understand**	**Apply**	**Analyze**	**Evaluate**	**Higher order Thinking / Creative**
0.00	0.00	35.00	35.00	30.00	0.00

Instructional Method:

1 LECTURE CUM DISCUSSION & RESEARCH PROJECT

Supplementary Resources:

1 NA

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