ST TSEPHENS HOSPITAL COLLEGE OF NURSING B.SC. (HONS.) NURSING-THIRD YEAR COURSE PLAN

SUBJECT: NURSING RESEARCH & STATISTICS

H.O.D: Prof. Dr. Feba Geevarghese Principal cum Professor

Sub Coordinator-Ms. Sheljy Shajan

Theory-45 Hours Practical-45 Hours

Course Description-the course is designed to enable students to develop an understanding of basic concepts of research, research process and statistics and enable them to conduct or participate in need based research studies in various settings. Further the student will be able to utilize the research findings in providing quality nursing care

Specific Objectives: At the end of the course, the student will be able to

- Define the terms and concepts of research
- Identify needs and scope of nursing research
- Define research problems
- Describe research approaches and research designs in nursing research

•Conduct participate in need based research studies in various setting

• Utilize the research in findings to provide quality nursing care

Unit	Time (Hrs)	Objective	Contents	A V AIDS	Teaching Learning Activities	Assessment Methods
I.	04	 Describe the concept of research, terms, need, and scope of research Explain the steps of research process 	 Research & Research Process Introduction and need for nursing research Definition of Research and Nursing research Steps of scientific method Characteristics of good research Steps of Research Process- Overview 	 Over head Projector PowerPoint Presentation Board & chalk 	Lecture methodDiscussion	Long answer Short answer Objective type
II.	03	• Identify and state research statements and objectives	 Research Problems/Question Identification of problem area Problem statement Criteria of a good research problem Writing objectives 	 Over head Projector PowerPoint Presentation Board & chalk 	Lecture methodDiscussionAssignments	Long answer Short answer Objective type

III.	03	• Review the related literature	 Review of Literature Location Sources On line search: CINHAL, COCHRANE etc. Purpose Method of Review 	 Over head Projector PowerPoint Presentation Board & chalk 	Lecture methodDiscussionAssignments	Long answer Short answer Objective type
IV.	04	• Describe the research approaches and designs	 Research Approach and design Historical, Survey and Experimental Qualitative and Quantitative designs 	 Over head Projector PowerPoint Presentation Board & chalk 	Lecture methodDiscussionAssignments	Long answer Short answer Objective type
V.	08	 Explain the sampling process Describe the types 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 instrument Methods of data collection Questioning and interviewing Observation, record analysis and measurement Types of instruments Validity & Reliability of the instrument 	 Over head Projector PowerPoint Presentation Board & chalk 	 Lecture method Discussion Assignments 	Long answer Short answer Objective type

VI.	04	 Analyse, interpret and summarise the researrhc findings 	 Pilot study Data collection procedure Analysis of Data Compilation Tabulation 	 Over head Projector PowerPoint 	Lecture methodDiscussionAssignments	Long answer Short answer
			 Classification Summarization Presentation Interpretation of data 	Presentation Board & chalk 		Objective type
VII.	15	 Explain the use of statistics, scales of measurement and graphical presentation of data Describe the methods of central tendency, variability and measure of correlation 	 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 	 Over head Projector PowerPoint Presentation Board & chalk 	 Lecture method Discussion Assignments 	Long answer Short answer Objective type
/111.	04	Communicate and utilize the research findings	Communication and utilization of Research • Communication of research findings • Verbal report • Writing research report	 Over head Projector PowerPoint Presentation Board & chalk 	Lecture methodDiscussionAssignments	Long answer Short answer Objective

	 Writing Scientific 		type
	article/paper - Critical review of published		
	research		
	- Utilization of research		
	findings		

ST TSEPHENS HOSPITAL COLLEGE OF NURSING B.SC. (HONS.) NURSING THIRD YEAR UNIT PLAN

SUBJECT: NURSING RESEARCH & STATISTICS

	Unit-I
Title- Researce	ch & Research Process
Faculty-	Ms. SheljyShajan

Unit	Specific Objective	Time (Hrs)	Contents	A V AIDS	Teaching Learning Activities	Assessment Methods
Ι	At the end of the unit student will be able to • Describe the	04 Hrs	Research & Research Process			
	 concept of research Define the terms of research 	1 hr	 Introduction and need for nursing research Definition of Research terms 	• Over head Projector	 Lecture method Discussion 	Describe the need of nursing research?
	• Explain the steps of research process	1 hr	• Steps of scientific method	PowerPoint Presentation	 Lecture method Discussion 	List the steps of research?
	process	1 hr	Characteristics of good research	PowerPoint Presentation	Lecture methodDiscussion	
		1 hr	Steps of Research Process- Overview	• Board &chalk	 Lecture method Discussion 	Explain the steps of good research?

Unit-II Title- Research **Problems/Question** Faculty- Ms. SheljyShajan

Unit	Specific Objectives	Time (Hrs)	Contents	A V AIDS	• Teaching Learning Activities	Assessment Methods
II	At the end of the unit student will be able to	03	Research Problems/Question •			
	• Discuss the criteria of a good research problem	1 hr	Identification of problem area	• Over head Projector	• Assignments	Describe the components of research problem
	• Describe the components of research problem	2 hrs	 Problem statement Criteria of a good research problem Writing objectives 	 PowerPoint Presentation Board & chalk 	Lecture method Discussion	Discuss the criteria of a good research problem?

Unit-III Title- **Review of Literature** Faculty- Ms. SheljyShajan

Unit	Specific Objectives	Time (Hrs)	Contents	A V AIDS	Teaching Learning Activities	Assessment Methods
III	At the end of the unit student will be able to • Discuss the	03	Review of Literature			
	importance of reviewing literature in research	1 hr	LocationSources	PowerPoint Presentation	• Assignments	Discuss the sources of literature
	• Explain the sources of literature	1 hr	• On line search: CINHAL, COCHRANE etc.	• Board &chalk	• Lecture method	Discuss the importance of reviewing literature in research
		1 hr	PurposeMethod of Review	Over head Projector	Discussion	Explain the methods and purposes of literature?

Unit-IV Title- **Research Approach and design** Faculty- Ms. SheljyShajan

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Unit	Specific	Hrs	Contents	A V AIDS	Teaching	Assessment
	Objectives				Learning	Methods
					Activities	

IV	IV At the end of the unit student will be able to	• 4	Research Approach and design	• Over head Projector	• Lecture method	List the types of various research
	• Differentiate between	1 hr	Historical, Survey			approaches?
	experimental and non experimental research designs	1 hr	Experimental design	PowerPoint Presentation	Lecture method	
		1 hr	• Qualitative design	Board &chalk	• Discussion Assignments	Differentiate between experimental and non experimental
		1 hr	Quantitative designs	PowerPoint Presentation	• Lecture method	- research designs?

Unit-V Title- **Sampling and data Collection** Faculty- Ms. SheljyShajan

Unit	Time	ne (Hrs)	Contents	A V AIDS	Teaching Learning	Assessment
					Activities	Methods

V	At the end of the unit student will be able to • Explain the	08	Sampling and data Collection			
	 sampling process Differentiate between probability and non 	1 hr	Definition of population, sample, sampling criteria	• PowerPoint Presentation	• Lecture method	Explain the sampling process?
	probability sampling	1 hr	factors influencing sampling process	Board &chalk	DiscussionAssignments	Differentiate between probability and
	• Describe the types of data collection	2 hr	types of sampling techniques	• Over head Projector	Lecture method	non probability sampling?
		1 hr	• Data why-what, from whom, when and where to collect	• Over head Projector	Lecture method	
		1 hr	 Data collection methods and instrument Methods of data collection Questioning and interviewing Observation, record analysis and measurement Types of instruments 	• Over head Projector	Lecture method	Describe the types of data collection?
		1 hr	• • Validity & Reliability of the instrument	• Over head Projector	Lecture method	Discuss the validity and reliability of tool

1 hr	• Pilot study	Over head Projector	Lecture method	Significance of pilot study

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Unit	Specific	Time (Hrs)	Contents	A V AIDS	Teaching Learning	Assessment
	Objectives				Activities	Methods
VI	At the end of the unit student will	04	Analysis of Data		Lecture method	Levels of
	be able to	1 hr	Compilation			measurement?
	• Analyse, interpret and		Tabulation	Over head		
	summarize the research findings			Projector		
		1 hr	Classification	PowerPoint	Assignments	Different
			Summarization	Presentation		methods of
						dataclassificati
						on ?
			Presentation	Board &chalk	Discussion	Different
		2 hr	• Interpretation of data			methods of
						data
						presentation

Unit-VI Title-**Analysis of Data** Faculty- Ms. SheljyShajan

Unit-VII Title-**Introduction to statistics** Faculty- Ms. SheljyShajan

Unit	Specific	Time	Contents	A V AIDS	Teaching Learning	Assessment	
	Objectives	(Hrs)			Activities	Methods	
VII	At the end of the unit	15	Introduction to statistics	Over head	Lecture method	Definition and	

 student will be able to Explain the use of statistics, scales of measurement 	2hrs	• Definition, use of statistics, scales of measurement	Projector	•	scope of statistics
and graphical presentation of data	2 hr	• Frequency distribution and	 PowerPoint Presentation 	DiscussionAssignments	
• Describe the methods of central tendency,	2 hr	• graphical presentation of data	 PowerPoint Presentation 	Lecture methodAssignments	
variability and measure of correlation	2 hr	Mean, Median & Mode	Board &chalk	Lecture method	Describe the methods of central tendency
	1 hr	• Standard deviation	Board &chalk	Assignments	Describe the measure of variability?
	2 hr	Normal Probability and tests of significance	Board &chalk	Lecture method	
	2 hr	• Co-efficient of correlation	Board &chalk	Assignments	
	2 hr	• Statistical packages and its application	• PowerPoint Presentation	Lecture methodAssignments	

Unit-VII Title-**Communication and utilization of Research** Faculty- Ms. SheljyShajan

Unit	Specific Objectives	Time (Hrs)	Contents	A V AIDS	Teaching Learning Activities	Assessment Methods
VII	At the end of the unit student will be able to • Communicate and utilize the research findings	04	Communication and utilization of Researc	h		
		2 hrs	Communication of research findings • Verbal report • Writing research report •	• Over head Projector	• Lecture method	Long answer Short answer Objective type
		2 hrs	 Writing Scientific article/paper Critical review of published research Utilization of research finding 	 PowerPoint Presentation Board & chalk 	DiscussionAssignments	