NURSINGRESEARCHANDSTATISTICS

PLACEMENT: VIISEMESTER

THEORY:2Credits(40hours)

PRACTICUM: Lab/SkillLab:1Credit(40hours) Clinical Project:40hours

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 varioussettings and utilize the research findings to provide quality nursing care. The hours for practical will be utilized forconductingindividual/group research project.

COMPETENCIES: On completion of the course, students will be competent to

- 1. Identifyresearchpriorityareas
- 2. Formulateresearchquestions/problemstatement/hypotheses
- 3. Reviewrelatedliteratureonselectedresearchproblemandprepareannotated bibliography
- 4. Preparesampledatacollectiontool
- 5. Analyzeandinterpretthegivendata
- 6. Practicecomputing, descriptive statistics and correlation
- 7. Drawfiguresandtypesofgraphson givenselectdata
- 8. Developaresearchproposal
- 9. Planandconductagroup/individualresearchproject

Unit	Time(Hr s.) T	Learning Outcomes	Con tent	Teaching/Lear ningActivit ies	Assessment Methods
Ι	6	Describe theconcept ofresearch, terms,need and areas ofresearch innursing Explainthestep sof researchproces s Statethepurpose sand steps ofEvidence BasedPractice	 ResearchandResearchPr ocess Introductionandneedfor nursingresearch DefinitionofResearch& nursingresearch Stepsofscientificmethod Characteristicsofgoodrese arch StepsofResearchpro cess–overview Evidence Based Practice – Concept,Meaning, Purposes, Steps of EBPProcessand Barriers 	 Lecture cumDisc ussion Narrate steps ofresearch processfollo wed fromexample s ofpublishedst udies Identify researchprioriti esonagivenarea /specialty List examples ofEvidence BasedPractic e 	 Shortanswer Objectivetype
П	2	Identify and statethe researchproble m andobjectives	 ResearchProblem/Questi on Identificationofproblemar ea Problemstatement Criteriaofagoodresearchpr oblem Writingobjectivesandhypo theses 	 Lecture cumDisc ussion Exercise on writingstateme nt ofproblem andobjectives 	 Shortanswer Objectivetype Formulation ofresearchquesti ons/objectives/h ypothesis

NURSINGRESEARCHANDSTATISTICS

Uni t	Time(Hrs.)	Learni ngOutc omes	Conte nt	Teaching/ LearningA ctivities	Assessm entMet hods
III	2(T)	Review therelatedlite rature	 ReviewofLiterature Location Sources Onlinesearch;CINH AL,COCHRANEet c. Purposes Methodofreview 	 Lecture cumDisc ussion Exercise onreviewing oneresearch report/articlefor aselectedresear chproblem Prepare annotatedBibl iography 	 Shortanswer Objectivetyp e Assessmen tofreview ofliterature ongiven topicprese nted
IV	4(T)	Describe theResearch approaches anddesigns	 ResearchApproachesandDe signs Historical, surveyandexperim ental QualitativeandQuantit ativedesigns 	• Lecture cumDisc	 Shortanswer Objectivetyp e
V	6(T)	Explain theSamp lingproc ess Describethe methods of datacollectio n	 n DefinitionofPopulation,Sam ple Sampling criteria, factorsinfluencing sampling process, typesofsampling techniques 	 Lecture cumDisc ussion Reading assignmenton examples of datacollectionto ols Preparatio n ofsample datacollect iontool Conduct groupresear chproject 	 Shortanswer Objectivetyp e Developin gquestionn aire/Intervi ewSchedul e/Checklis t

ity&Reliability oftheInstrument	
• Researchethics	
• Pilotstudy	
Datacollectionprocedure	

VIII	4(T)	gs	 Communication and utilization of Research Communicationofres earchfindings Verbalreport Writingresearchreport Writingscientificarticle/pape r Critical review of publishedresearchinclu dingpublicationethics Utilizationofresearchfinding s Conductinggroupresearchpr oject 	 Lecture cumDisc ussion Read/ Presentationsof a samplepublishe d/unpublishedr esearchreport Plan,conducta ndWriteindivi dual/groupres earchproject 	 Shortanswer Objectivetype Oral Presentation Development ofresearchproposal Assessment ofresearchProject
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DISTRIBUTION OF TEACHING HOURS

	STRATEGY	Teac	Teaching hours		
Didactic	Lectures (24 Research+16 Statistics)		40		
Non- didactic	Practical-Lab/Skill Lab / Small group discussion	30	80		
	ClinicalProject : Research Project Group work	44			
	Tutorials (Research and Statistics)	04			
	ratorials (rescal on and Statistics)	02			
	Total		120		

TOPICS & OUTCOMES

Subjects	Number of Themes	Number of outcomes
Introduction To Nursing Research	6	
Statistics	2	

DISTRIBUTION OF THEORY HOURS

S N.	Theme	Topics	Teaching hrs.
1	Research and research process	Research and research process	6
2	Research Problem/Question	Research Problem/Question	2
3	Review of Literature	Review of Literature	2
4	Research Approaches & Designs	Research Approaches & Designs	4
5	Sampling & data Collection	Sampling & data Collection	6
6	Analysis of data	Analysis of data	4
7	Introduction to statistics	Introduction to statistics	12
8	Communication & Utilization of Research	Communication & Utilization of Research	4
	TOTAL		40

						Core competer	су	Non core competency	Hrs.
.No.	Subject	Fheme and total hours allotted	Торіс	Code No.	Competency	Must know	Desirable to know	Nice to know	
1	Introduct ion To Nursing Research	Unit I Research and research process (6 hours)	Research and research process	NRST405:VII SEM1.1	Define the terms and concept of Research, Nursing research and identify its needs, scope of nursing research	Introduction and need for nursing research Definition of Research & nursing research			1hour
				NRST405:VII SEM1.2	Explain research process and EBP	Steps of Research process – overview Evidence Based Practice – Concept, Meaning, Purposes,			2Hours
				NRST405:VII SEM1.3	Explain the steps of scientific method and characteristics of good Research		Steps of scientific method Characteristics of good Research		2hour
				NRST405:VII	Describe steps of EBP			Steps of EBP Process and	1hour

				SEM1.4	Process and Barriers			Barriers	
2	Introduct ion To Nursing Research	Unit II Research Problem/ Question (2Hours)	Researc h Problem /Questio n	NRST405:VII SEM 2.1	Identify the research problem or research question and determine sources the research problem or research question, Explain the steps of formulation of research problem,explain variables.	Identification and formulation of research problem. Identification and formulation of research problem Identification of variables			¹∕₂ hour
				NRST405:VII SEM 2.2	Describe the meaning, characteristics, needs, types and method of stating research objectives and explainhypothesis and assumption.	Writing research objectives Hypothesis and Assumption			¹∕₂ hour
				NRST405:VII SEM 2.3	Recognize the criteria for selecting a good research problem		Criteria of good research problem		1hour
3	Nursing Research	Review of	Review of Literatur e	NRST405:VII SEM3.1	Explain the review of literature, Evidence Based Practice nursing	 Review of Literature Location Sources Purposes Method of Review 			1 hour

				NRST405:VII SEM 3.2	Illustrate the electronic sources from where literature can be searched,	Online Search: CINHAL, COCHRANE, etc.		1hour
4	Introducti on To Nursing Research	Unit IV Research Approache s & Designs (4 Hours)	Research Approac hes & Designs	NRST405:VII SEM 4.1	Define research approaches & design and illustrate elements, factors influencing the selection of designs and validity of research design, describe Quantitative research Designs	 Introduction of research approaches & design with reference to elements and validity of research design Quantitative research Designs 		1hour
				NRST405:VII SEM 4.2	Identify the characteristics of qualitative and quantitative research design, differentiate between qualitative and quantitative research	 Characteristics of qualitative and quantitative research design Difference between qualitative and quantitative research 		1hour
				NRST405:VII SEM 4.3	Define and explain types, advantages and disadvantages of Experimental research design and non- experimental research design, survey	 Experimental and Non experimental research design Survey 		1 hour
				NRST405:VII	Describe Qualitative research Designs with		• Qualitative research	1 hour

				SEM 4.4	reference to Historical research design Grounded theory, Phenomenological Ethnographic research,	designs.	
5	Introducti on To Nursing Research	Unit:VSam pling & data Collection (6 hours)	Sampling & data Collectio n	NRST405:VII SEM 5.1	Define the basic terms related to Population, sample, sampling criteria, explain Sampling techniques	 Definition – Population, sample, sampling criteria Sampling techniques 	1 hour
				NRST405:VII SEM5.2	Describe the different types of probability and non- probability sampling techniques.	Sampling techniques	1 hour
				NRST405:VII SEM 5.3	Explain the method of data collection and instruments, the interview, questionnaire, observation	instruments	¹ /2 hour
				NRST405:VII SEM 5.4	Define, explain the pilot study. explain Data collection Procedure	Pilot studyData collection Procedure	½ hour
				NRST405:VII	Explain record analysis, illustrate the Factors	• Record	2hour

				SEM 5.5	influencing sampling process ,explain validity and reliability of research instrument		•	analysis & instruments Factors influencing sampling process Validity and reliability of the instruments			
				NRST405:VII SEM 5.6	Define concept of data and classify data, types of instruments.				•	Data - Why, what, from whom, when and where to collect. Types of Instruments	1hour
8	on To Nursing Research	Utilization	ication & Utilizatio	NRST405:VII SEM 8.1	Describe the criteria and methods of communicating the research findings, Critical review of published research	 Communication of research findings Verbal reports Critical review of published research 					2 Hour

(4Hours)	SEM 8.2	Determine the barriers in utilization of nursing research and strategies to overcome them	Utilization of research findings		1Hour
	SEM 8.3	Define, explain writing research report, scientific article/paper		Writing research report Writing scientific article/paper	1Hour

TEACHING STRATEGY:

Total Hours: 120

Theory Hours: 40

Clinical/Practical Hours: 80

<u>Theory</u> Continuous Assessment: 10Marks

Sr.	Assignments	Percentage	Allotted	Total Marks for
No		of	marks	attendance
		Attendance		
1	Attendance	95-100%	2	
		90-94%	1.5	
		85-89%	1	2 marks
		80-84%	0.5	
		<80%	0	
		Number	Marks	Total Marks
		assignments	wiarks	TOTAL MARKS
2	Written Assignments			
	Home assignment			
	01- Nursing Research	2 2X5	2X5	10
	01- Statistics			
3	Seminar/Microteaching/Individual			
	presentation			
	1. Prepare	2	2x6	12
	annotatedBibliography	2	2.0	12
	2. Presentationsof			
	researchreport			
4	Group work/Work/Report			
	1. RESEARCH GROUP	1	1x6	06
	PROJECT			
		I	Total	30/3=10Marks

Note: If there is mandatory module in that semester, marks obtained by student out of 10 can be added to 30 totaling 40 marks Total=40/4=10marks

DISTRIBUTION OF NONDIDACTIC HOURS (80 Hours)

PRACTICALS -

S.N	Comp. no	Research Project Group Work	Domain	T-L Method	Teaching Hrs
1	NRST 405:VIISEM 2.1	Formulate research questions/problem statement/hypotheses	K,S	Lecture cum Small group discussion	8 hrs
2	NRST 405:VIISEM 3.1	Review related literature on selected research problem and prepare annotated	К	Lecture cum Small group discussion	6 hrs

		bibliography			
3	NRST 405:VIISEM 4.1	Identify types ofresearch approachesused from examplesof published andunpublishedresearch	K,S	Lecture cum Small group discussion	1hr
4	NRST 405:VIISEM 5.3	Preparation ofsample datacollectiontool	К	Lecture cum Small group discussion	6 hrs
5	NRST 405:VIISEM 6.1	Analyze and interpret the given data	K,S	Lecture cum Small group discussion	6 hrs
6	NRST 405:VIISEM 7.1	 Practice on graphical presentations Practice oncomputation of measures of central tendency, variability & correlation 	K,S	Lecture cum Small group discussion	8 hrs
7	NRST 405:VIISEM 8.2	 Read/ Presentations of a sample published/ unpublished research report Plan, conduct and Write individual/group research project 	K,S	Lecture cum Small group discussion	5 hrs 40 hrs
	Total Hrs		1		80 Hrs.

TUTORIAL(6hours)

S N.	Comp. no	TOPIC	Domain	T-L	Teaching
				Method	Hrs
1.	NRST 405:VIISEM 1.3	Evidence based practice	К	Tutorials	1 hr
2.	NRST 405:VIISEM 4.1	Research design	К	Tutorials	1 hr
3.	NRST 405:VIISEM 5.1	Sampling	К	Tutorials	1 hr
4.	NRST 405:VIISEM 5.3	Data collection	К	Tutorials	1 hr
5.	NRST 405:VIISEM 7.1	Introduction to Statistics	К	Tutorials	1 hr
6.	NRST 405:VIISEM 7.9	Correlation and Coefficient	К	Tutorials	1 hr
	1	Total		1	6

Formative Assessment

1. Sessional Examinations: Theory: I

Sr. No.	Question paper – Theory	Total
Maximum marks	30	30

2. Sessional Examinations: Theory: II

Sr. No.		Total
Maximum marks	30	30

Two sessional exams per course

Calculation of Internal Assessment (IA): Theory

- Total marks of two sessional examinations along with continuous assessment 30marksx2=60/4=15
- 10+15 = 25 Marks
- Minimum required 50 %

3. Summative Assessment

a. Theory:				
Type of questions Number of questions		Marks allotted		
MCQ	9X1	9Marks		
Essay/situation type	2x15	30Marks		
Short	2x5	10Marks		
Very short	3x2	06Marks		
	Total	55marks		

Datta Meghe Institute of Medical Sciences (Deemed to be University) Smt. Radhikabai Meghe Memorial College of Nursing Sawangi (Meghe) Wardha

Name of the Institute: SRMM College of Nursing

Name of Examination: Basic B.Sc. Nursing

Semester VII: Nursing Research

NRST 405: VIISEM /Primary/2021-2025

	Must to Know (MK 60%)	Desirable to know (DK 30%)	Nice to know (NK 10%)	Marks = 55
ESSAY (4) 2/4	(4) Level-I-2 Level-II-2			15Mx2=30M
SHORT (2) 2/3	(2) Level-I-1 Level-II-1	(1) Level-I-1		5Mx2= 10M
VERY SHORT (3) 3/4	(2) Level-I-1 Level-II-1	(1) Level- I-1	(1) Level-I-1	2Mx3=06M
MCQ (9) 9/9	(5) Level-I-4 Level-II-1	(3) Level-I-2 Level-II-1	(1) Level-I-1	1Mx9=9M
Total	1	1		Total = 55 Marks

Level I: 80

Level II: 20