

## Course Specification

I. Course Identification and General Information:						
1	Course Title:	Research methodology				
2	Course Code & Number:	MNSG03				
3	Credit hours: 2	C.H			TOTAL	
		Th.	Seminar	Pr		Tr.
		2	-	-	-	2
4	Study level/ semester at which this course is offered:	First year/Second semester				
5	Pre –requisite:	-				
6	Co –requisite :	-				
7	Program (s) in which the course is offered:	Critical care nursing				
8	Language of teaching the course:	English				
9	Location of teaching the course:	Faculty of Nursing				
10	Prepared By:	Prof. Nabil Ahmed Al-Rabeei				
11	Date of Approval	2022				

### II. 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 health care.

**III. Intended learning outcomes of the course (ILCOs) and their alignment to Program Intended learning outcomes (PILOs)**

ILCOs	PILOs
1. Discuss the basic concepts of research, steps of research process and the process of making a research proposal.	A6
2. Write outline of research report.	C6
3. Prepare data processing, analysis, interpretation and interpretation	D4
4. Appraise the ethical implication in research.	D5

**(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:**

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a6. Discuss the basic concepts of research, steps of research process and the process of making a research proposal.	Lecture Discussion Exercise on writing research proposal Exercise on writing statement of problem, objectives and hypothesis	Essay type Short answer Objective type

**(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:**

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
Not applicable	-	-

**(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:**

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
c6. Write outline of research report.	Lecture Discussion Exercise on writing research report	Essay type Short answer Objective type

**(D) Alignment Course Intended Learning Outcomes of General and Transferable Skills to Teaching Strategies and Assessment Strategies:**

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d4. Prepare data processing, analysis, interpretation and interpretation	Lecture Discussion	Essay type Short answer Objective type
d5. Appraise the ethical implication in the research	Lecture Discussion	Essay type

<b>IV. Course Content:</b>					
<b>A – Theoretical Aspect:</b>					
<b>Order</b>	<b>Units/Topics List</b>	<b>Sub Topics List</b>	<b>No. of Weeks</b>	<b>Contact hours</b>	<b>Learning Outcomes</b>
1	Introduction to Research	<ul style="list-style-type: none"> <li>▪ Introduction and need for research</li> <li>▪ Definition of Research</li> <li>▪ Purposes of Research</li> <li>▪ Characteristics of good research</li> <li>▪ Steps of Research process</li> <li>▪ Types of Research</li> <li>▪ Ethical considerations in doing research</li> </ul>	1	2	a6
2	Research Problem	<ul style="list-style-type: none"> <li>▪ Definition of Research Problem</li> <li>▪ Sources of Problem</li> <li>▪ Criteria of a good research problem.</li> </ul>	1	2	a6
3	Objectives and hypothesis	<ul style="list-style-type: none"> <li>▪ Definition of objectives</li> <li>▪ Purposes of objectives</li> <li>▪ Classification of objectives</li> <li>▪ Phrasing objectives</li> <li>▪ Hypothesis</li> </ul>	1	2	a6
4	Review of Literature	<ul style="list-style-type: none"> <li>• Definition of literature review</li> <li>• Purposes of literature review</li> <li>• Types of information</li> <li>• Sources of literature review</li> <li>Types of sources for a review</li> <li>• Process of the Literature Reviewing</li> <li>• Writing the review of literature</li> <li>▪ Online search; CINHAL, COCHRANE etc.</li> </ul>	1	2	a6
5	Research designs	<ul style="list-style-type: none"> <li>▪ Types of study <ul style="list-style-type: none"> <li>○ Observational studies</li> </ul> </li> </ul>	4	8	a6

		<ul style="list-style-type: none"> <li>- Descriptive studies</li> <li>- Analytical studies</li> <li>○ Experimental studies</li> <li>- True experimental study</li> <li>- Quazi- experimental study</li> </ul>			
6	Midterm exam		1	2	a6
7	Sampling technique	<ul style="list-style-type: none"> <li>▪ Definition of Sampling technique Definition of Population, Sample</li> <li>▪ Sample size</li> <li>▪ Sampling criteria</li> <li>▪ Factors influencing sampling process</li> <li>▪ Types of sampling techniques.</li> </ul>	1	2	a6
8	Data collection methods and tools	<ul style="list-style-type: none"> <li>▪ Data collection methods: <ul style="list-style-type: none"> <li>○ Documents and records</li> <li>○ Administering Questionnaire</li> <li>○ Observation</li> <li>○ Interview</li> <li>○ Focus group discussion</li> </ul> </li> <li>• Types of tools</li> <li>• Validity &amp; Reliability of the Instruments <ul style="list-style-type: none"> <li>○ Pilot study</li> </ul> </li> </ul>	2	4	a6
9	Data processing and analysis	<p>Steps of data processing and analysis:</p> <ul style="list-style-type: none"> <li>• Sorting data (classification)</li> <li>• Editing</li> <li>• Data processing: <ul style="list-style-type: none"> <li>○ Categorizing data</li> <li>○ Coding</li> <li>○ Summarizing the data on Master sheet</li> </ul> </li> </ul>	1	2	a6,d4
	Presentation and	<p>Types of data (variables):</p> <ul style="list-style-type: none"> <li>• Numerical data:</li> </ul>			

	interpretation of findings	<ul style="list-style-type: none"> <li>○ Numerical discrete</li> <li>○ Numerical continues</li> <li>● Categorical data: <ul style="list-style-type: none"> <li>○ Nominal</li> <li>○ Ordinal</li> </ul> </li> </ul> <p>Methods of presenting and interpreting the analyzed data: Text, tables, graphs and statistical measures.</p>	1	2	a6,d4
10	Writing research report and proposal	<ul style="list-style-type: none"> <li>▪ Writing research proposal</li> <li>▪ Writing research report</li> <li>▪ Critical review of published research</li> </ul>	1	2	a6, c6 d4, d5
11	Final exam		1	2	a6 ,c6, d4, d5
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

<b>B - Practical Aspect:</b>				
Order	Tasks/ Experiments	Number of Weeks	contact hours	Learning Outcomes
	<b>Not applicable</b>	-	-	-
<b>Number of Weeks /and Units Per Semester</b>				

<b>V. Teaching strategies of the course:</b>
1. Lecture - Discussion 2. Brainstorming

<b>VI. Assignments:</b>				
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	▪ Prepare of research proposal	c6	10-14	10

### VII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Student assignment	5th and 12th week	10	10 %	a6 ,c6, d4, d5
2	Presentation	4 <sup>st</sup> and 14 <sup>th</sup> week	20	20 %	c6
3	Mid-term exam	7th or 8th week	20	20%	a6
4	Final exam	16th-17th week	50	50 %	a6 ,c6, d4, d5

### VIII. Learning Resources:

1- Required Textbook(s)	
	1. Health Research Methodology (2005).WHO Manual. 2. Kothari C.R. (2004). Research Methodology, 2nd Edt. New Age International Pub.
2- Essential References.	
	1. Kothari (2007). Research Methodology, Newage Publishers 2. Jagadeesh(2009). Bio Medical Research, WoltersKluwer.
3- Electronic Materials and Web Sites etc.	
	1. www.pubmed.com

### IX. Course Policies:

1.	Class Attendance: At least 75 % of the course hours should be attended by the student. Otherwise, he/she will not be allowed to attend the final exam
2.	Tardy: any student who is late for more than 15 minutes from starting the lecture will not be allowed to attend the lecture and will be considered absent.
3.	Exam Attendance/Punctuality: Any student who is late for more than 30 minutes from starting the exam will not be allowed to attend the exam and will be considered absent.
4.	Assignments & Projects: Assignments and projects will be assessed individually unless the teacher request for group work
5.	Cheating: Cheating by any means will cause the student failure and he/she must re-study the course
6.	Plagiarism: Plagiarism by any means will cause the student failure in the course. Other disciplinary procedures will be according to the college rules.

## Course Plan (Syllabus)

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Prof. Nabil Ahmed Al-Rabeei			Office Hours			
Location & Telephone No.		SAT	SUN	MON	TUE	WED	THU
E-mail	nabilalrabeei@hotmail.com					X	

II. Course Identification and General Information:						
1.	Course Title:	Research Methodology				
2.	Course Number & Code:	MNSG03				
3.	Credit hours: 2	C.H				Total
		Th.	Seminar	Pr.	F. Tr.	
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4.	Study level/year at which this course is offered:	First year/Second semester				
5.	Pre –requisite:	-				
6.	Co –requisite :	-				
7.	Program (s) in which the course is offered	Critical care nursing				
8.	Language of teaching the course:	English				
9.	System of Study:	Semester system				
10	Mode of delivery:	Full time				
11	Location of teaching the course:	Faculty of Nursing				

III. Course Description:	
<p>The Course is designed to enable students to develop an understanding of basic concepts of research, research process and analysis. It is further, structured to conduct/ participate in need based research studies in various settings and utilize the research findings to provide quality health care.</p>	

**IV. Intended learning outcomes (ILOs) of the course:**

1. Discuss the basic concepts of research, steps of research process and the process of making a research proposal.
2. Write outline of research report.
3. Prepare data processing, analysis, interpretation and interpretation
4. Appraise the ethical implication in research.

**V. Course Content:**

- Distribution of Semester Weekly Plan of Course Topics/Items and Activities.

**A – Theoretical Aspect:**

Order	Topics List	Week Due	Contact Hours
1	Introduction to Research	1	2
2	Research Problem	2	2
3	Objectives and hypothesis	3	2
4	Review of Literature	4	2
5	Research designs	5-8	6
6	Midterm exam	9	2
7	Sampling technique	10	2
8	Data collection methods and tools	11-12	4
9	Data processing and analysis	13	2
10	Presentation and interpretation of findings	14	2
11	Writing research report and proposal	15	2
12	Final exam	16	2
<b>Number of Weeks /and Units Per Semester</b>		<b>16</b>	<b>32</b>

**B– Practical Aspect:**

Order	Topics List	Week Due	Contact Hours
	<b>Not applicable</b>	-	-
<b>Number of Weeks /and Units Per Semester</b>			

**VI. Teaching strategies of the course:**

1. Lecture - Discussion
2. Brainstorming

### VII. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	▪ Prepare research proposal	c6	10-14	10

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