

# Republic of Yemen

Ministry of Higher Education & Scientific Research

21 SEPTEMBER UNIVERSITY of MEDICALS & APPLIED  
SCIENCES



## Faculty of Medicine

Department of Community Medicine

Bachelor Program of Medicine and Surgery (MBBS)

## Course Specification of

Research methodology

**Course Code.** (A21P314)

2023



T4: This Template is Developed and Approved by CAQA-Yemen, 2023

Prepared by:	Reviewed by:	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. Jamil Mujalli	Dr. Fadhl Shujaa Al-deen	Dr. Fadhl Shujaa Al-deen	Salwa Al-Ghomeri	

## I. General Information:

1.	Course Title:	Research methodology				
2.	Course Code:	A21P314				
3.	Credit Hours:	Credit Hours	Theory Contact Hours		Practical Contact Hours	
			Lecture	Tutorial/ Seminar	Lab	Clinical
		2	2	--	--	--
4.	Level/ Semester at which this Course is offered:	Level 3 / Semester 1				
5.	Pre –Requisite (if any):	Community Medicine I&2				
6.	Co –Requisite (if any):	Community Medicine 3				
7.	Program (s) in which the Course is Offered:	Bachelor of Medicine and Surgery (MBBS)				
8.	Language of Teaching the Course:	English				
9.	Location of Teaching the Course:	Faculty of Medicine				
10.	Prepared by:	Dr. Jamil Mujalli				
١١	Date and Number of Approval by Council:	2023				

## 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.

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III. Course Intended Learning Outcomes (CILOs) : Upon successful completion of the course, students will be able to:		Referenced PILOs		
<b>A. Knowledge and Understanding:</b>		<b>I, P or M/A</b>		
a1	Identify types of research studies and the steps of research process.	<b>M</b>	<b>A4</b>	Recognize the local and international guidelines, ethics, disease management, prevention and other risk factors that affect community health.
a2	Describe the concept, characteristics and steps of research and state the research problem, objective and hypothesis, and the main sources for obtaining review of literature.			
<b>B. Intellectual Skills:</b>				
b1	Differentiate between research designs and types of sampling.	<b>A</b>	<b>B3</b>	Explore to medical practice the principles, method and knowledge of population health and the improvement of health and healthcare.
b2	Compare between methods of data collection.			
<b>C. Professional and Practical Skills:</b>				
c1	Review the related literature.	<b>P</b>	<b>C3</b>	Carry out routine medical procedure and demonstrate the ability of using common medical tools required for diagnosis and management with highly qualified competency
c2	Writing research report and references Accurately.			
<b>D. Transferable Skills:</b>				
d1	Appraise the ethical implication in the research.	<b>I</b>	<b>D3</b>	Respect the different cultural beliefs, ethics, personalities, privacy and values for patients and community with a good behavior and follow the institutional and national roles of medical practice

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d2	Work in team work to achieve research study.	P	D2	Work individually or in a team and develop lifelong learning using up to date technology that help in understanding the diseases and its control and prevention.
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I= Introduced, P=Practiced or M/A= Mastered/Advanced

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

Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
a1 Identify types of research studies and the steps of research process.	<ul style="list-style-type: none"> <li>Lecture</li> </ul>	<ul style="list-style-type: none"> <li>Write exam</li> </ul>
a2 Describe the concept, characteristics and steps of research and state the research problem, objective and hypothesis, and the main sources for obtaining review of literature.		

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

Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
b1 Differentiate between research designs and types of sampling.	<ul style="list-style-type: none"> <li>Lecture</li> <li>Brain storming</li> <li>Research</li> </ul>	<ul style="list-style-type: none"> <li>- Written exam</li> <li>- Assignments</li> </ul>
b2 Compare between methods of data collection.		

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

Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
c1 Review the related literature.	<ul style="list-style-type: none"> <li>Lecture</li> <li>Research</li> </ul>	<ul style="list-style-type: none"> <li>- Written exam</li> <li>- Assignments</li> </ul>
c2 Writing research report and references Accurately.		

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching**

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### Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d1	Appraise the ethical implication in the research.	<ul style="list-style-type: none"> <li>Research</li> </ul>	Assignments
d2	Work in team work to achieve research study.		

### IV. Course Contents:

#### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Research and Research Process	<ul style="list-style-type: none"> <li>– Introduction and need for research.</li> <li>– Definition of Research.</li> <li>– Steps of scientific method.</li> <li>– Characteristics of good research.</li> <li>– Steps of Research.</li> <li>– process-overview.</li> </ul>	2	4	a1, a2
2	Research Problem	<ul style="list-style-type: none"> <li>▪ Identification of problem area</li> <li>▪ Problem statement</li> <li>▪ Criteria of a good research problem.</li> </ul>	1	2	a2
3	Objectives and hypothesis	<ul style="list-style-type: none"> <li>▪ Writing objectives</li> <li>▪ Characteristics of objectives</li> <li>▪ Hypothesis</li> </ul>	1	2	a2, c1
4	Review Literature	<ul style="list-style-type: none"> <li>▪ Location and Sources</li> <li>▪ On line search; CINHALL, COCHRANE etc</li> <li>▪ Purposes</li> <li>▪ Method of review</li> </ul>	1	2	a2, c1, d1
5	Research approaches and designs	<ul style="list-style-type: none"> <li>▪ Historical, survey &amp; experimental</li> <li>▪ Qualitative &amp; Quantitative</li> </ul>	2	4	a1, a2, b1

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No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
		<ul style="list-style-type: none"> <li>designs</li> <li>▪ Observational</li> <li>▪ Analytical</li> <li>▪ Experimental</li> </ul>			
6	Midterm exam		1	2	a1,a2,b1, c1
7	Sampling technique	<ul style="list-style-type: none"> <li>▪ Definition of Population, Sample</li> <li>▪ Sampling criteria</li> <li>▪ Factors influencing sampling process</li> <li>▪ Types of sampling techniques.</li> </ul>	2	4	a2, b2
8	Data Collection and Tools	<ul style="list-style-type: none"> <li>Data-why what, from whom, when and where to collect</li> <li>▪ Data collection methods and instruments: <ul style="list-style-type: none"> <li>o Methods of data collection <ul style="list-style-type: none"> <li>-Questioning, interviewing, Observations, record analysis &amp; measurement</li> <li>✓ Types of instruments</li> <li>✓ Validity &amp; Reliability of the Instrument</li> <li>✓ Pilot study</li> <li>✓ Data collection procedure</li> </ul> </li> <li>o Ethical issues</li> </ul> </li> </ul>	3	6	a2, b2, c2, d1
9	Data analysis	<ul style="list-style-type: none"> <li>▪ Tabulation, classification, summarization, presentation, interpretation data</li> </ul>	1	2	a2, c2, d2
10	Presentation of findings	<ul style="list-style-type: none"> <li>▪ Writing research report</li> <li>▪ Writing scientific article/paper</li> <li>▪ Critical review of published research</li> <li>▪ Utilization of research findings</li> </ul>	1	2	a2, b2, c2
11	Final Theoretical		1	2	a1, a2,

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No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
	Exam				b1, b2, c1, c2
Number of Weeks /and Units Per Semester			16	32	

### B. Practical Aspect (Lab/Clinical) (if any):

No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	NA			
Number of Weeks /and Units Per Semester				

### C. Tutorial Aspect (if any):

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	NA			
Number of Weeks /and Units Per Semester				

## VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Research (project Presentation)	4 <sup>th</sup> -15 <sup>th</sup>	10	b1. b2, c1, c2, d1, d2
Total			١٠	

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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	4 <sup>th</sup> -	10	10%	b1. b2, c1, c2, d1,

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No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
		15 <sup>th</sup>			d2
3	Mid-Term Theoretical Exam	8 <sup>th</sup>	20	20%	a1,a2,b1,c1
6	Final Theoretical Exam	16 <sup>th</sup>	70	70%	a1, a2, b1. b2, c1, c2
<b>Total</b>			<b>100</b>	<b>100%</b>	

## IX. Learning Resources:

### 1- Required Textbook(s):

- 1- Jagadeesh(2009). Bio Medical Research, WoltersKluwer.
- 2- Polit(2009). Essentials of Nursing Research ,2009,LWW.

### 2- Essential References:

- 1- Kothari (2007). Research Methodology, Newage Publishers.
- 2- Basvanthappa(2008). Nursing Research, Jaypee Publications.

### 3- Electronic Materials and Web Sites etc.:

#### Websites:

- 1- [www.pubmed.com](http://www.pubmed.com)
- 2- [www.edul.elu.eg](http://www.edul.elu.eg)
- 3- [www.medescap.com](http://www.medescap.com)

## X. Course Policies: (Based on the Uniform Students' By law (2007)

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.

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4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	<b>Other policies:</b> The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

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## Faculty of Medicine

### Bachelor Program of Medicine and Surgery (MBBS)

### Course Plan (Syllabus) of Research methodology

### Course Code. (A21P314)

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member:		Office Hours					
Location & Telephone No.:	-----						
E-mail:	--@--	SAT	SUN	MON	TUE	WED	THU

٢٠٢٣

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## II. Course Identification and General Information:

Course Title:	Research methodology				
Course Code:	A21P314				
Credit Hours:	Credit Hours	Theory Contact Hours		Practical Contact Hours	Clinical
		Lecture	Tutorial/Seminar	Lab	
	2	2	--	--	-
Level/ Semester at which this Course is offered:	Level 3 / Semester 1				
Pre –Requisite (if any):	Community Medicine I&2				
Co –Requisite (if any):	Community Medicine 3				
Program (s) in which the Course is Offered:	Bachelor of Medicine and Surgery (MBBS)				
Language of Teaching the Course:	English				
Location of Teaching the Course:	Faculty of Medicine				
Prepared by:	Dr. Jamil Mujalli				
١١ Date and Number of Approval by Council:	2023				

## III. 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.

## IV. Course Intended Learning Outcomes (CILOs) :

Upon successful completion of the Course, student will be able to:

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	<b>A. Knowledge and Understanding:</b>
a1	Identify types of research studies and the steps of research process.
a2	Describe the concept, characteristics and steps of research and state the research problem, objective and hypothesis, and the main sources for obtaining review of literature.
	<b>B. Intellectual Skills:</b>
b1	Differentiate between research designs and types of sampling.
b2	Compare <b>between methods of</b> data collection.
	<b>C. Professional and Practical Skills:</b>
c1	Review the related literature.
c2	Writing research report and references Accurately.
	<b>D. Transferable Skills:</b>
d1	<b>Appraise the ethical implication in the</b> research.
d2	Work in team work to achieve research study.

## V. Course Contents:

### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Research and Research Process	<ul style="list-style-type: none"> <li>– Introduction and need for research.</li> <li>– Definition of Research.</li> <li>– Steps of scientific method.</li> <li>– Characteristics of good research.</li> <li>– Steps of Research.</li> <li>– process-overview.</li> </ul>	2	4
2	Research Problem	<ul style="list-style-type: none"> <li>▪ Identification of problem area</li> <li>▪ Problem statement</li> <li>▪ Criteria of a good research problem.</li> </ul>	1	2
3	Objectives and hypothesis	<ul style="list-style-type: none"> <li>▪ Writing objectives</li> <li>▪ Characteristics of objectives</li> <li>▪ Hypothesis</li> </ul>	1	2

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No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
4	Review Literature	<ul style="list-style-type: none"> <li>▪ Location and Sources</li> <li>▪ On line search; CINHAL, COCHRANE etc</li> <li>▪ Purposes</li> <li>▪ Method of review</li> </ul>	1	2
5	Research approaches and designs	<ul style="list-style-type: none"> <li>▪ Historical, survey &amp; experimental</li> <li>▪ Qualitative &amp; Quantitative designs</li> <li>▪ Observational</li> <li>▪ Analytical</li> <li>▪ Experimental</li> </ul>	2	4
6	Midterm exam		1	2
7	Sampling technique	<ul style="list-style-type: none"> <li>▪ Definition of Population, Sample</li> <li>▪ Sampling criteria</li> <li>▪ Factors influencing sampling process</li> <li>▪ Types of sampling techniques.</li> </ul>	2	4
8	Data Collection and Tools	<p>Data-why what, from whom, when and where to collect</p> <ul style="list-style-type: none"> <li>▪ Data collection methods and instruments: <ul style="list-style-type: none"> <li>o Methods of data collection <ul style="list-style-type: none"> <li>-Questioning, interviewing, Observations, record analysis &amp; measurement</li> <li>✓ Types of instruments</li> <li>✓ Validity &amp; Reliability of the Instrument</li> <li>✓ Pilot study</li> <li>✓ Data collection procedure</li> </ul> </li> <li>o Ethical issues</li> </ul> </li> </ul>	3	6
9	Data analysis	<ul style="list-style-type: none"> <li>▪ Tabulation, classification, summarization, presentation,</li> </ul>	1	2

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No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
		interpretation data		
10	Presentation of findings	<ul style="list-style-type: none"> <li>▪ Writing research report</li> <li>▪ Writing scientific article/paper</li> <li>▪ Critical review of published research</li> <li>▪ Utilization of research findings</li> </ul>	1	2
1٦	Final Theoretical Exam		1	2
Number of Weeks /and Units Per Semester			16	32

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Research and Research Process	<ul style="list-style-type: none"> <li>– Introduction and need for research.</li> <li>– Definition of Research.</li> <li>– Steps of scientific method.</li> <li>– Characteristics of good research. <ul style="list-style-type: none"> <li>– Steps of Research.</li> <li>– process-overview.</li> </ul> </li> </ul>	2	4
2	Research Problem	<ul style="list-style-type: none"> <li>– Identification of problem area <ul style="list-style-type: none"> <li>▪ Problem statement</li> <li>▪ Criteria of a good research problem.</li> </ul> </li> </ul>	1	2
3	Objectives and hypothesis	<ul style="list-style-type: none"> <li>– Writing objectives <ul style="list-style-type: none"> <li>▪ Characteristics of objectives</li> <li>▪ Hypothesis</li> </ul> </li> </ul>	1	2
4	Review Literature	<ul style="list-style-type: none"> <li>– Location and Sources <ul style="list-style-type: none"> <li>▪ On line search; CINHALL, COCHRANE etc</li> <li>▪ Purposes</li> <li>▪ Method of review</li> </ul> </li> </ul>	1	2
5	Research approaches and designs	<ul style="list-style-type: none"> <li>– Historical, survey &amp; experimental <ul style="list-style-type: none"> <li>▪ Qualitative &amp; Quantitative designs</li> <li>▪ Observational</li> <li>▪ Analytical</li> </ul> </li> </ul>	2	4

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No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
		<ul style="list-style-type: none"> <li>▪ Experimental</li> </ul>		
6	Midterm exam		1	2
7	Sampling technique	<ul style="list-style-type: none"> <li>- Definition of Population, Sample</li> <li>▪ Sampling criteria</li> <li>▪ Factors influencing sampling process</li> <li>▪ Types of sampling techniques.</li> </ul>	2	4
8	Data Collection and Tools	<ul style="list-style-type: none"> <li>- Data-why what, from whom, when and where to collect</li> <li>▪ Data collection methods and instruments:               <ul style="list-style-type: none"> <li>o Methods of data collection - Questioning, interviewing, Observations, record analysis &amp; measurement</li> <li>✓ Types of instruments</li> <li>✓ Validity &amp; Reliability of the Instrument</li> <li>✓ Pilot study</li> <li>✓ Data collection procedure</li> <li>o Ethical issues</li> </ul> </li> </ul>	3	6
9	Data analysis	<ul style="list-style-type: none"> <li>- Tabulation, classification, summarization, presentation, interpretation data</li> </ul>	1	2
10	Presentation of findings	<ul style="list-style-type: none"> <li>- Writing research report</li> <li>▪ Writing scientific article/paper</li> <li>▪ Critical review of published research</li> <li>▪ Utilization of research findings</li> </ul>	1	2
11	Final Theoretical Exam	-	1	2
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>

### B. Case Studies and Practical Aspect:

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No.	Tasks/ Experiments	Number of Weeks	Contact Hours
1	NA		
<b>Number of Weeks /and Units Per Semester</b>			

No.	Tasks/ Experiments	Number of Weeks	Contact Hours
1	NA		
<b>Number of Weeks /and Units Per Semester</b>			

### C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours
1	NA		
<b>Number of Weeks /and Units Per Semester</b>			

### VI. Teaching Strategies of the Course:

- Lectre
- Research.

### VII. Assessment Methods of the Course:

- Write exam.
- Assignments .

### VIII. Assignments:

No.	Assignments	Week Due	Mark
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No.	Assignments	Week Due	Mark
1	Research (project Presentation)	4th -15th	10
Total			١٠

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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	4th - 15th	10	10%
3	Mid-Term Theoretical Exam	8th	20	20%
6	Final Theoretical Exam	16th	70	70%
Total			100	100%

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	4 <sup>th</sup> -15 <sup>th</sup>	10	10%
3	Mid-Term Theoretical Exam	8 <sup>th</sup>	20	20%
6	Final Theoretical Exam	16 <sup>th</sup>	70	70%
Total			100	100%

### X. Learning Resources:

• 1- Required Textbook(s):
Jagadeesh(2009). Bio Medical Research, WoltersKluwer.
4- Polit(2009). Essentials of Nursing Research ,2009,LWW.
2- Essential References:
Kothari (2007). Research Methodology, Newage Publishers.
5- Basvanthappa(2008). Nursing Research, Jaypee Publications.
6- 3- Electronic Materials and Web Sites etc.:

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**Websites:**

[www.pubmed.com](http://www.pubmed.com)

[www.edul.elu.eg](http://www.edul.elu.eg)

7- [www.medescap.com](http://www.medescap.com)

## XI. Course Policies: (Based on the Uniform Students' Bylaw (2007))

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	<b>Other policies:</b> The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

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