

Republic of Yemen

Ministry of Higher Education & Scientific Research

21 September University for Medicals and Applied Sciences



Faculty of Clinical Pharmacy

Bachelor of Clinical Pharmacy & Pharm. D.

Course Specification of **Research Methodology**

Course No. (05.02.223)

2022

Prepared by:	Reviewed by:	Head of the Department:	Vice Dean for Quality affairs	Dean of College:
Dr. Abdulelah Thabet	Prof. Ali Alkaf	Dr. -----	Dr. Abdulelah Thabet	Dr. Ali Alyahawi

I. Course Identification and General Information:

1	Course Title:	Research Methodology			
2	Course Code & Number:	05.02.223			
3	Credit Hours:	Credit Hours	Theory Hours		Lab/./Practical Hours
			Lecture	Exercise	
		2	2		
4	Study Level/ Semester at which this Course is offered:	4 th Level / 1 st Semester			
5	Pre–Requisite (if any):	Medical statistics			
6	Co-Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Bachelor of Clinical Pharmacy & Pharm. D.			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty of Clinical Pharmacy			
12	Prepared by:	Dr. Abdulelah Thabet			
13	Date of Approval:	2022			

II. Course Description:

The course is designed to provide in-depth knowledge and skills in research design and methodology and to train the student in writing a study plan, critically reviewing scientific literature, and final report presentation while conducting scientific graduation research work. It is further, structured to use reference management and data analysis software.

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III. Course Intended Learning Outcomes (CILOs)		Referenced PILOs Learning out of the program
A. Knowledge and Understanding: Upon successful completion of the course, students will be able to:		
a.1	Define the concept of knowledge management, different scientific research designs and methods	A1
a.2	Learn how to set up a research study	A1
a.3	Understand the correct ways to refer to and cite from scientific literature	A1, A4
B. Intellectual Skills: Upon successful completion of the course, students will be able to:		
b1	Discuss and explain the differences between different research methods	B 4
b2	Construct a research question, develop a hypothesis, and select the most appropriate research method, data collection tools, analysis and interpretation for the question of interest, and data entry platform.	B4, B5
b3	Perform literature reviews and reference relevant scientific literature	B4
C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:		
c.1	Formulate a research plan	C4
c.2	Demonstrate advanced oral and written communication skills including the presentation of a research report	C4, C5
D. Transferable Skills: Upon successful completion of the course, students will be able to:		
d.1	Improve student's skills of time management and self-learning while performing research works.	D1
d.2	Communicate effectively and ethically with his/her colleagues>	D1
d3	Demonstrate basic skills in using IT or web-based reference material, reference management, and data analysis software.	D2, D3

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(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:			
Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
a.1	Define the concept of knowledge management, different scientific research designs and methods	- Self-reading articles - Teacher-led group activities (workshops) - Lectures - Seminars	• Proposal development • quizzes, • written examinations • Assignments
a.2	Learn how to set up a research study	- Self-reading articles - Teacher-led group activities (workshops) - Lectures - Seminars	• Proposal development • quizzes • written examinations • Assignments
a.3	Understand the correct ways to refer to and cite from scientific literature	- Self-reading articles - Teacher-led group activities (workshops) - Lectures - Seminars	• Proposal development • quizzes, • written examinations • Assignments
(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:			
Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b1	Discuss and explain the differences between different research methods	- Self-reading articles - Teacher-led group activities (workshops) - Lectures - Seminars	• Proposal development, • written report & examinations • Assignments
b2	Construct a research question, develop a hypothesis, and select the most appropriate research method, data collection tools, analysis and interpretation for the question of interest, and data entry platform.	- Self-reading articles - Teacher-led group activities (workshops) - Lectures	- Proposal development, - written report & examinations - Assignments
b3	Perform literature reviews and reference relevant scientific literature	- Self-reading articles - Teacher-led group activities (workshops) - Lectures	- Proposal development, - written report & examinations - Assignments
(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
c.1	Formulate a research plan	- Self-reading articles - Teacher-led group activities (workshops) - Lectures	Oral presentation and written report

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		- Seminars	
c.2	Demonstrate advanced oral and written communication skills including the presentation of a research report	- Self-reading articles - Teacher-led group activities (workshops) - Lectures - Seminars	Oral presentation and written report
(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:			
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
d.1	Improve student's skills of time management and self-learning during performing research work.	- Weekly discussions - Self-reading articles - Seminars	Oral presentation and written report
d.2	Communicate effectively and ethically with his/her colleagues.	- Weekly discussions - Self-reading articles - Seminar	Oral presentation
d3	Demonstrate basic skills in using IT or web-based reference material, reference management, and data analysis software.	- Weekly discussions - Self-reading articles - Seminar	- Proposal development - written report & examinations

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	- Introduction and need for research. - Definition of Research. - Steps of scientific method. - Characteristics of good research. - Steps of Research. - process-overview. - Ethical issues	2	4	a1, a2, a3
2	Research Problem	■ Identification of problem area ■ Problem statement ■ Criteria of a good research problem.	1	2	a1, a2, a3, b1, b2, b3, c1
3	Objectives and	■ Writing objectives	1	2	a1, a2, a3,

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	hypothesis	- Characteristics of objectives - Hypothesis			b1, b2, b3, c1
4	Literature search and review	- Literature search and review - On line search; Google scholar, PubMed, etc. - Purposes - Method of review	1	2	a1, a2, a3, b1, b2, b3, c1, c2, d1, d3
5	Research approaches and designs	- Historical, survey & experimental - Qualitative & Quantitative designs - Observational - Analytical - Experimental	2	4	a1, a2, a3, b1, b2, b3, c1, c2, d1, d3
6	Midterm exam		1	2	a1, a2, a3, b1, b2, b3, c1, c2
7	Sampling technique	- Definition of Population, Sample - Sampling criteria - Factors influencing the sampling process - Types of sampling techniques.	1	2	a1, a2, a3, b1, b2, b3, c1
8	Data types, data collection techniques	Data-why what, from whom, when, and where to collect - Data collection methods and instruments: - o Methods of data collection - Questioning, interviewing, Observations, record analysis & measurement ✓ Types of instruments ✓ Validity & Reliability of the Instrument ✓ Pilot study ✓ Data collection procedure & Ethical issues	3	6	a1, a2, a3, b1, b2, b3, c1, c2, d1, d2, d3

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9	Data analysis	Tabulation, classification, summarization, presentation, interpretation of data	1	2	a1, a2, a3, b1, b2, b3, c1, d3
10	Presentation of findings	- Writing research proposal - Writing research project - Oral presentations - Utilization of research findings - Scientific writing - Scientific presentation - Critical scientific review of published research	2	4	a1, a2, a3, b1, b2, b3, c1, c2, d1, d2, d3
11	Final Exam		1	2	a1, a2, a3, b1, b2, b3, c1, c2
Number of Weeks /and Units Per Semester			16	32	

VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1 : Writing research proposal	7th	2.5	a1- a3, b1- b3, c1, c2, d1- d3
2	Assignment 2: Writing research project	, 14th	2.5	a1- a3, b1- b3, c1, c2, d1- d3
Total				5

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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	7th, 14th	5	5%	a1- a3, b1- b3, c1, c2, d1- d3
2	Quiz 1	6 th	2.5	2.5%	a1- a3, b1- b3, c1, c2
3	Midterm Exam (Theory)	Week 7	20	20%	a1- a3, b1- b3, c1, c2, d1- d3
4	Quiz 2	12 th	2.5	2.5%	a1- a3, b1- b3, c1- c3
5	Final Exam (Theory)	Week 16	70	70%	a1- a3, b1- b3, c1, c2, d1- d3
Total			100	100%	

IX. Learning Resources:

1- Required Textbook(s) (maximum two).

1. Hulley S. B., Cummings S. R., Browner W. S., et al. (2013). Designing Clinical Research. Fourth Edition. Pennsylvania, USA: Lippincott Williams & Wilkins.
2. Mahmoud F. Fathalla, (2004). A practical guide for health researchers, WHO Headquarters (HQ),
3. Glasman-Deal, Hilary Science research writing for non-native speakers of English, London : Imperial College Press, cop. 2010

2- Essential References.

1. Ferner, R. E, D. A Hughes, and J. K Aronson. 'NICE and New: Appraising Innovation'. BMJ3 no. jan05 2 (January 2010): b5493–b5493. doi:10.1136/bmj.b5493
(18) (PDF) Research Methodology Course Specifications. Available from:
https://www.researchgate.net/publication/336349776_Research_Methodology_Course_Specifications [accessed Apr 07 2024].
2. Mackay, Judith., Mensah, George A, 200, Health Research Methodology: A Guide for Training in Research Methods Second Edition. Panama: World Health Organization

3- Electronic Materials and Web Sites etc.

1. Selected Journal articles depending on the project
2. www.pubmed.com
3. www.edul.elu.eg
4. www.medescap.com

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

1	Class Attendance: 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	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: 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	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: 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	Forgery and Impersonation: 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	Other policies: 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 Clinical Pharmacy

Bachelor of Clinical Pharmacy & Pharm. D

Course Plan (Syllabus) of **Research Methodology** Course Code. 05.02.223

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

2022- 2023

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II. Course Identification and General Information:

1	Course Title:	Research Methodology			
2	Course Code & Number:	05.02.223			
3	Credit Hours:	Credit Hours	Theory Hours		Lab/.Practical Hours
			Lecture	Exercise	
		2	2		
4	Study Level/ Semester at which this Course is offered:	4 th Level /1 st Semester			
5	Pre –Requisite (if any):	Medical statistics			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Bachelor of Clinical Pharmacy & Pharm. D.			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty of Clinical Pharmacy			
12	Prepared by:	Dr. Abdulelah Thabet			
13	Date of Approval:	2023			

III. Course Description:

The Course is designed to provide in-depth knowledge and skills of research design and methodology and to train the student in writing a study plan, critically reviewing scientific literature and final report presentation during conducting scientific graduation research work. It is further, structured to use of reference management and data analysis software.

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IV. Course Intended Learning Outcomes (CILOs) :

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

A. Knowledge and Understanding:

- | | |
|----|---|
| a1 | Define the concept of knowledge management, different scientific research designs and methods |
| a2 | Learn how to set up a research study |
| a3 | Understand correct ways to refer to and cite from scientific literature |

B. Intellectual Skills:

- | | |
|----|--|
| b1 | Discuss and explain differences between different research methods |
| b2 | Construct a research question, develop a hypothesis, and select the most appropriate research method, data collection tools, analysis and interpret for the question of interest, and data entry platform. |
| b3 | Perform literature reviews and reference relevant scientific literature |

C. Professional and Practical Skills:

- | | |
|----|--|
| c1 | Formulate a research plan |
| c2 | Demonstrate advanced oral and written communication skills including the presentation of a research report |

D. Transferable Skills:

- | | |
|----|--|
| d1 | Improve students skills of time management and self-learning during performing research works> |
| d2 | Communicate effectively and ethically with his/her colleagues> |
| d3 | Demonstrate basic skills in using IT or web-based reference material, reference management and data analysis software. |

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V. Course Contents:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Research and Research Process	– Introduction and need for research. – Definition of Research. – Steps of scientific method. – Characteristics of good research. – Steps of Research. – process-overview. – Ethical issues	2	4	a1, a2, a3
2	Research Problem	▪ Identification of problem area ▪ Problem statement ▪ Criteria of a good research problem.	1	2	a1, a2, a3, b1, b2, b3, c1
3	Objectives and hypothesis	▪ Writing objectives ▪ Characteristics of objectives ▪ Hypothesis	1	2	a1, a2, a3, b1, b2, b3, c1
4	Literature search and review	▪ Literature search and review ▪ On line search; Google scholar, PubMed, etc. ▪ Purposes ▪ Method of review	1	2	a1, a2, a3, b1, b2, b3, c1, c2, d1, d3
5	Research approaches and designs	▪ Historical, survey& experimental ▪ Qualitative & Quantitative designs ▪ Observational ▪ Analytical ▪ Experimental	2	4	a1, a2, a3, b1, b2, b3, c1, c2, d1, d3
6	Midterm exam		1	2	a1, a2, a3, b1, b2, b3, c1, c2
7	Sampling technique	▪ Definition of Population, Sample ▪ Sampling criteria ▪ Factors influencing the sampling	1	2	a1, a2, a3, b1, b2, b3, c1

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No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
		process ■ Types of sampling techniques.			
8	Data types, data collection techniques	Data-why what, from whom, when, and where to collect ■ Data collection methods and instruments: o Methods of data collection - Questioning, interviewing, Observations, record analysis & measurement ✓ Types of instruments ✓ Validity & Reliability of the Instrument ✓ Pilot study ✓ Data collection procedure & Ethical issues	3	6	a1, a2, a3, b1, b2, b3, c1, c2, d1, d2, d3
9	Data analysis	■ Tabulation, classification, summarization, presentation, interpretation of data	1	2	a1, a2, a3, b1, b2, b3, c1, d3
10	Presentation of findings	■ Writing research proposal ■ Writing research project ■ Oral presentations ■ Utilization of research findings ■ Scientific writing ■ Scientific presentation ■ Critical scientific review of published research	2	4	a1, a2, a3, b1, b2, b3, c1, c2, d1, d2, d3
11	Final Exam		1	2	a1, a2, a3, b1, b2, b3, c1, c2
Number of Weeks /and Units Per Semester			16	32	

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No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Research and Research Process	- Introduction and need for research. - Definition of Research. - Steps of scientific method. - Characteristics of good research. - Steps of Research. - process-overview. - Ethical issues	2	4	a1, a2, a3
2	Research Problem	- Identification of problem area - Problem statement - Criteria of a good research problem.	1	2	a1, a2, a3, b1, b2, b3, c1
3	Objectives and hypothesis	- Writing objectives - Characteristics of objectives - Hypothesis	1	2	a1, a2, a3, b1, b2, b3, c1
4	Literature search and review	- Literature search and review - On line search; Google scholar, PubMed, etc. - Purposes - Method of review	1	2	a1, a2, a3, b1, b2, b3, c1, c2, d1, d3
5	Research approaches and designs	- Historical, survey& experimental - Qualitative & Quantitative designs - Observational - Analytical - Experimental	2	4	a1, a2, a3, b1, b2, b3, c1, c2, d1, d3
6	Midterm exam		1	2	a1, a2, a3, b1, b2, b3, c1, c2
7	Sampling technique	- Definition of Population, Sample - Sampling criteria - Factors influencing the sampling process - Types of sampling	1	2	a1, a2, a3, b1, b2, b3, c1

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No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
		techniques.			
8	Data types, data collection techniques	- Data-why what, from whom, when, and where to collect - Data collection methods and instruments: - o Methods of data collection - Questioning, interviewing, Observations, record analysis & measurement ✓ Types of instruments ✓ Validity & Reliability of the Instrument ✓ Pilot study ✓ Data collection procedure & Ethical issues	3	6	a1, a2, a3, b1, b2, b3, c1, c2, d1, d2, d3
9	Data analysis	Tabulation, classification, summarization, presentation, interpretation of data	1	2	a1, a2, a3, b1, b2, b3, c1, d3
10	Presentation of findings	- Writing research proposal - Writing research project - Oral presentations - Utilization of research findings - Scientific writing - Scientific presentation - Critical scientific review of published research	2	4	a1, a2, a3, b1, b2, b3, c1, c2, d1, d2, d3
11	Final Exam		1	2	a1, a2, a3, b1, b2, b3, c1, c2
Number of Weeks /and Units Per Semester			16	32	

VI. Teaching Strategies of the Course:

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- Lectures
- Self-reading articles
- Teacher-led group activities (workshops)
- Seminars
- Weekly discussions

VII. Assessment Methods of the Course:

خطأ! لم يتم العثور على مصدر المرجع.

- Assignments
- Quiz
- Exam
- Oral Presentation
- Proposal development
- Written report

VIII. Assignments:

No.	Assignments	Week Due	Mark
1	Assignment 1 : Writing research proposal	7th	2.5
2	Assignment 2: Writing research project	, 14th	2.5
Total			

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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	7th, 14th	5	5%
2	Quiz 1	6 th	2.5	2.5%
3	Midterm Exam (Theory)	Week 7	20	20%
4	Quiz 2	12 th	2.5	2.5%
5	Final Exam (Theory)	Week 16	70	70%
Total			100	100%

X. Learning Resources:

1- Required Textbook(s) (maximum two).

- Hulley S. B., Cummings S. R., Browner W. S., et al. (2013). Designing Clinical Research. 9th Edition. Pennsylvania, USA: Lippincott Williams & Wilkins.
- Mahmoud F. Fathalla, (2004). A practical guide for health researchers, WHO Headquarters (HQ),
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2- Essential References.

- Ferner, R. E, D. A Hughes, and J. K Aronson. 'NICE and New: Appraising Innovation'. BMJ 340: no. jan05 2 (January 2010): b5493–b5493. doi:10.1136/bmj.b5493
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https://www.researchgate.net/publication/336349776_Research_Methodology_Course_Specifications
[accessed Apr 07 2024].
- Mackay, Judith., Mensah, George A, 200, Health Research Methodology: A Guide for Training in Research Methods Second Edition. Panama: World Health Organization

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3- Electronic Materials and Web Sites etc.

5. Selected Journal articles depending on the project
6. www.pubmed.com
7. www.edul.elu.eg
8. www.medescap.com

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

1	Class Attendance: 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	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: 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	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: 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	Forgery and Impersonation: 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	Other policies: 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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