



Department of Medical Laboratory Analysis
Faculty of Medical Sciences
Cihan University Sulaimaniya

Subject: Research Methodology / 7th semester

Course Book – Year 2023-2024

Lecturer's name: Rebar T. Abdulwahid

Academic Year: 2023/2024

Course Book

1. Course name	Research Methodology
2. Lecturer in charge	Rebar T. Abdulwahid
3. Department/ College	Medical Laboratory Analysis
4. Time (in hours) per week	2 Hrs Theory
5. Office hours	1
6. Course code	
7. Teacher's academic profile	https://uni.sulicihan.edu.krd/qa/profile/rebar.abdulwahid@sulicihan.edu.krd/home
8. Keywords	Literature review, Quantitative research, Qualitative research, Plagiarism, Referencing & citation, Scientific hypotheses, Research proposal, Scientific paper.
9. Course overview:	
<p>Research can be one of the most interesting aspects of any degree program as it provides you with a degree of control and autonomy over your learning. It offers an opportunity to confirm, clarify, pursue, or even discover new facets of a subject or topic that trigger your curiosity.</p> <p>This course aims to prepare students with a comprehensive understanding of the interdisciplinary research process. It begins by aligning with the research themes that interest students, immersing them in the development of their own research projects. The course delves into various research methods, explores the underlying theoretical assumptions of each method, and demonstrates their practical applications. Additionally, it will probe into ethical considerations and the essential components of a scientific article or research paper.</p> <p>Throughout this course, we will introduce research methodologies in education, encompassing both qualitative and quantitative approaches. The course familiarises students with modern perspectives in educational research, emphasizing the development of skills required for crafting a research proposal. This includes framing research questions, conducting literature reviews, and selecting appropriate methodologies for various types of studies. The course will also explore how</p>	

researchers from different traditions utilize diverse data collection methods, such as experimentation, theory-driven analysis, literature review, and observation.

10. Course objective:

This course offers participants an opportunity to establish or advance their understanding of research through a critical exploration of research language, literature review techniques, types of research, plagiarism prevention, ethics, and research approaches. The course introduces research language, ethical principles, challenges, and the components of the research process within quantitative, qualitative, and mixed methods approaches. Students will apply these theoretical foundations to critically review literature relevant to their field or interests, determining how research findings contribute to their understanding of their work and the broader social, local, and global contexts.

Upon successful completion of the course, students will be able to:

1. Search for, select, and critically analyse research articles and papers.
2. Develop a comprehensive literature review.
3. Formulate and evaluate research questions.
4. Understand the general structure of a thesis and scientific papers.
5. Possess basic knowledge of qualitative and quantitative data analysis.
6. Develop a research proposal.
7. Gain experience in various data collection methods.
8. Present research findings clearly and coherently.
9. Gain familiarity with academic ethical principles and strategies to prevent plagiarism.
10. Properly reference a thesis or an academic text and present the study effectively.

11. Student's obligation

A student is obligated to adhere to the ethical standards of Cihan University by following these guidelines:

- Students are expected to attend classes punctually and consistently. (Attendance is marked).
- It is your responsibility to be aware of any additional topics and materials presented during lectures, as they may be included in quizzes or assignments.

- Active participation and the discussion of relevant subjects during lectures are encouraged.
- All assigned work must be submitted by the specified deadline, and you should attend any class assignments and quizzes that are part of your course.
- Students without official permission are not allowed for re-taking assignments and quizzes.
- You can discuss a topic or problem during my office hours, or alternatively, you can contact me via email.
- Students who miss 10 percent of the classes will be placed on probation.
- Throughout the course, students will complete several quizzes and assignments, and the marks obtained will contribute to the final grade. Therefore, students are expected to be well-prepared for quizzes and class assignments.

12. Forms of teaching

All lecture notes will be provided to students in advance of the lectures. During the lectures, PowerPoint presentations will be utilized to present these notes. Furthermore, the teaching methods will include the use of a whiteboard, online research exploration, videos, and practical research examples to enhance the understanding of the subject matter.

13. Assessment scheme

This module follows a continuous assessment style, which means it evaluates the ongoing progress of students with regard to the attainment of outcomes or objectives in the module. The total mark will be divided as follows:

Quizzes and Activities	4/ Semester	30%
Assignments and classwork	4/ Semester	30%
Mini report and presentation	1/ Semester	40%

14. Student learning outcome:

After successful completion of the course, the students are expected to:

1. Search for, select, and critically analyse research articles and papers.
2. Prepare a literature review.
3. Formulate and evaluate research questions.

4. Understand the general structure of a thesis and scientific paper.
5. Possess basic knowledge of qualitative and quantitative data analysis.
6. Develop a research proposal.
7. Acquire experience in data collection methods.
8. Present research findings in a clear and coherent manner.
9. Gain experience about academic moral principles and how to avoid plagiarism.
10. Properly reference a thesis or an academic text and effectively present the study.

15. Course Reading List and References:

Several books and online articles can serve as references for this course, including:

- 1- Kumar, R. (2011). *Research methodology*. 3rd ed. Los Angeles: Sage.
- 2- Kothari, C. (2004). *Research Methodology: Methods and Techniques*. 2nd ed. New Delhi: New Age International Ltd.
- 3- Locharoenrat, K. (2016). *Research methodologies for beginners*. 1st ed. Singapore: Pan Stanford Publishing Pte. Ltd.
- 4- Pruzan, P. (2016). *Research Methodology*. 1st ed. Frederiksberg: Springer International Publishing.
- 5- Bairagi, V. and Munot, M. (2019). *Research Methodology: A Practical And Scientific Approach*. 1st ed. New York: Taylor & Francis Group, LLC.
- 6- Novikov, A. and Novikov, D. (2013). *Research methodology: from philosophy of science to research design*. 3rd ed. Boca Raton, FL: CRC Press Taylor & Francis Group.

16. The Topics:

Week	Topic	Task	Observation
1	Introduction to the course Introduction to the graduation thesis Overview of the research project		1 Lecture (2 hours)
2	Objectives and motivation of research Scientific hypotheses		1 Lecture (2 hours)
3	Research proposal General tips for writing a research project		1 Lecture (2 hours)
4	Types of research Phases of research		1 Lecture (2 hours)
5	Simple research ideas (examples) Literature review Searching primary scientific literature		1 Lecture (2 hours)
6	Evaluation of e-books, papers and websites Process of reading a scientific paper Features of a good research study	Assignment	1 Lecture (2 hours)
7	Contents of research paper, reports, and thesis (Title, Affiliation, Abstract and Introduction)		1 Lecture (2 hours)
8	Contents of research paper, reports, and thesis (Methodology, Result and Discussion)		1 Lecture (2 hours)
9	Contents of research paper, reports, and thesis (Conclusion, Acknowledgment and References)	Assignment	1 Lecture (2 hours)
10	Plagiarism and methods to avoid plagiarism		1 Lecture (2 hours)
11	Citations and Referencing		1 Lecture (2 hours)
12	Research Ethics Effective presentation	Report submission	1 Lecture (2 hours)
13	Revision and Mini Report Presentations		1 Lecture (2 hours)
14	Mini Report Presentations		1 Lecture (2 hours)

17. Peer review: I certify that:

1. I read and verify all requirements of teaching quality assurance are respected in this course book.
2. The scientific contents are new, convenient and well organized for this stage.
3. The order of chapters is well done.
4. References are new and available for students.

That's why I signed on this course book and I take all responsibilities.

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Signature:

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