



Department of Soil and Water

**College of College of Agriculture Engineering
Sciences**

Salahaddin University- Erbil

Subject: Research Methodology

**Postgraduate Students (Master's degree)- First
Semester, 2023-2021**

Lecturer's name Asst. Prof. Dr. Tariq F. Sadiq

Academic Year: 2023/2024

Course Book

1. Course name	Research Methodology
2. Lecturer's in charge	Dr Tariq F. Sadiq
3. Department/ College	Soil and Water\ Agriculture
4. Contact	ta.fa2008@yahoo.com tariq.sadiq@su.edu.krd Tel: 009647504699925 or 009647704355844
5. Time (in hours) per week	Theory: 2 hrs/w
6. Office hours	Daily from 8:30am to 2:00pm
7. Course code	
8. Teacher's academic profile (Tariq F. sadiq)	https://academics.su.edu.krd/tariq.sadiq
9. Keywords	Research, Methodology, proposal, Publication, writing
10. Course overview:	
<ul style="list-style-type: none"> ▶ This course is designed to support postgraduate students in developing their research project and to assist them in defining their mode of enquiry. ▶ It will give students a general introduction to postgraduate research, its methodologies, its challenges and its organization. ▶ Students will be introduced to a range of research tools and will be equipped to plan and organize their research, as well as to communicate their findings. 	
11. Course objective:	
<p>The main objective of this course is to introduce the basic concepts in research methodology in agricultural research. This course addresses the issues inherent in selecting a research problem and discuss the techniques and tools to be employed in completing a research project. This will also enable the students to prepare report writing and framing Research proposals. Students will also explore the practical requirements and limitations of scientific research.</p>	
12. Student's obligation	
<p>The student must have an important role:</p> <ol style="list-style-type: none"> 1- Lecture attendance is compulsory. 2-The students must contribute in the scientific discussions in the class or teaching hall. 3-The students must know the importance of quizzes, homework, reports and exams. <p>It is necessary to contribute the student in presenting a scientific subject</p>	

13. Forms of teaching

There are different forms of teaching:

- 1-Datashow and power point.
- 2- White board.
- 3-Lectures.

14. Assessment scheme

The course degree was divided as follow:

- 1- 50 marks for review report
- 2- 50 marks for final exam

Note: To pass in this course, students must submit a literature review report and undertake the final exam.

15. Student learning outcome:

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

1. plan and manage a programme of MSc/PhD research.
2. make use of (**utilize**) and evaluate a variety of research tools and methodologies.
3. Address (deal with) issues of copyright, confidentiality (**privacy**), data protection and other ethical issues.
4. Articulate (express), reflect on and critically evaluate their chosen subject of research and its methods
5. communicate with colleagues in the same and other disciplines about their research
6. pursue specific research methods in detail

16. Course Reading List and References:

Alemayehu, N., Keneni, G., Bediye, S., & Dechassa, N. (2022). *Research Methods A Handbook for Agricultural Researchers*.

Goldsworthy, P., & de Vries, F. P. (Eds.). (1994). *Opportunities, Use, and Transfer of Systems Research Methods in Agriculture to Developing Countries: Proceedings of an International Workshop on Systems Research Methods in Agriculture in Developing Countries, 22-24 November 1993, ISNAR, the Hague*. Springer Netherlands.

Godfrey-Smith, P. (2009). *Theory and reality: An introduction to the philosophy of science*. University of Chicago Press.

Holmes, D., Moody, P., Dine, D., & Trueman, L. (2017). *Research methods for the biosciences*. Oxford university press.

Matthews, J. R., & Matthews, R. W. (2014). *Successful scientific writing: a step-by-step guide for the biological and medical sciences*. Cambridge University Press.

17. The Topics:

- 1. Introduction to research methodology.**
- 2. Structure of research.**
- 3. The body of thesis (research) is the main objective of this course and will be discussed in detail.**
- 4. Variables and criteria for selecting variables.**

Lecturer's name

Lecturer's name
Dr. Tariq F. Sadiq
(2 hrs)

<p>5. Writing and Reporting Research Findings. 6. How to Organize your documents? 7. How to write research proposals? 8. How to find a suitable journal for publication? 9. Citing sources and references in agriculture researches.</p> <p>Please note that the syllabus is tentative and may be subject to change.</p>	
<p>18. Extra notes: Please feel free to come and talk to me to get helpful feedback on your progress, or if you are struggling in any way. This course syllabus provides you with the key information of research methodology. For the best chance of success, you should read it very carefully and refer to it frequently throughout the semester.</p>	
<p>19. Peer review</p>	<p>پیداچونہوہی ھاوہل</p>