



Department of Plant protection

College of Agriculture

Salahaddin University

Subject: Research Methodology

Course Book – Postgraduate (MSc)

Lecturer's name: Tavga Sulaiman Rashid, PhD

Academic Year: 2023/2024

Course Book

1. Course name	Research Methodology
2. Lecturer in charge	Assist. Prof. Dr. Tavga Sulaiman Rashid
3. Department/ College	Plant Protection Department/ College of Agricultural Engineering Sciences
4. Contact	07504524781
5. Time (in hours) per week	Theory: 2
6. Office hours	Availability of the lecturer to the student during the week
7. Course code	
8. Teacher's academic profile	<p>I obtained a Bachelor of Science (BSc) degree from the Faculty of Agriculture, in the Plant Protection Department, at Salahaddin University in Erbil, Iraq, in July 2004. Following this, I pursued a Master of Science (MSc) degree at the same institution, specializing in Plant Pathology, and completed it in January 2008. During my academic journey, I worked as a lecturer in the Agriculture College at Salahaddin University for a period of 4 years.</p> <p>In May 2016, I received my Doctor of Philosophy (PhD) from the Faculty of Agriculture, specifically from the Plant Protection Department at the University Putra Malaysia (UPM).</p> <p>Throughout my career, I have made significant contributions, including the publication of 26 journal articles in international journals, obtaining 2 patents, receiving 2 gold medals and one bronze medal, participating in research projects, contributing to seminar proceedings, and conducting workshops.</p>
9. Keywords	Research methodology, thesis, manuscript, writing and publishing
10. Course overview:	
11. Course objective:	
<ul style="list-style-type: none"> -Understand basic terminology and fundamental concepts in research - Write research proposal for selected problem definition - Define research methodology for selected problems - Analyse the various types of research designs and select appropriate design for experimentation - Provide guidelines about contents and body of research papers, reports, and theses - Create awareness about various citation index, databases, and search engines - Apply various techniques of avoiding plagiarism to ensure ethical and integral writing 	
12. Student's obligation	

13. Forms of teaching	
14. Assessment scheme	
Report	50
Exam	50
Total	100
To obtain a pass in the unit, students must submit a literature review report and undertake the final exam	
15. Student learning outcome:	
Students will understand a general definition of research design. They will be able to know why research is undertaken and they will be able to identify the overall process of designing a research study from its inception to its report. They should be familiar with ethical issues in educational research, including those issues that arise in using quantitative and qualitative research. Students should be able to identify a research problem stated in a study. They should be familiar with how to write a good introduction to an educational research study and the components that comprise such an introduction. Also they will be familiar with conducting a literature review. They will be able to write and publish.	
16. Course Reading List and References:	
- Mukherjee, S. P. (2020). A Guide to Research Methodology: An Overview of Research Problems, Tasks and Methods. CRC Press. - Bairagi, V., Munot, M.V., 2019. Research Methodology: A Practical and Scientific Approach. - Cohen, L., Manion, L., Morrison, K. (2018). Research Methods in Education. London: Routledge, https://doi.org/10.4324/9781315456539 - Kumar, R. (2011). Research Methodology: A step-by-step guide for beginners (3rd edition). London, UK: TJ International Ltd, Padstow, Cornwall. - Denscombes, M. (2010). The Good Research Guide: For small-scale social research projects. Mainde-read: Open University Press.	
17. Theory Topics: Note: * Class content may change slightly, and classes may overlap.	
1. What is Research Characteristics of Research Why Research is Important to Students?	Lecturer's name Dr. Tavga S. Rashid
2. Literature survey and documentation What is literature review? Why the needs for literature review? How to carry out a literature review? Methods of literature survey, use of library, books, journals, e-journals, thesis, chemical abstracts and patent database, importance of documentation, documentation techniques, use of computer programs/packages (online resources such as-scientific search engines and online servers) in literature survey and documentation.	
3. Writing a review paper Selecting a Problem and Reviewing the Literature Design a review paper Discussion (Practicing writing review paper)	
4. Writing an Introduction	

Writing Material & Methods	
5. Writing Literature Review	
6. Writing Results and Discussion Tables Figures Discussion Conclusion Abstract	
7. References Reference styles Endnote Mendeley	
8. Research Problem What is a Research Problem? Selecting the Problem Necessity of Defining the Problem Technique Involved in Defining a Problem	
9. Types of research Basic Research Applied Research Problem Oriented Research Problem Solving Research Qualitative Research Quantitative Research Research types at the University Differences among Postgraduate and Undergraduate Research Research at the postgraduate level (PhD and MSc) Types of journal articles Original Research Short reports or Letters Review Articles Case Studies Methodologies or Methods	
10. Writing Research Proposals Why do we need to write research proposals? How to write Good Research Proposals? Case Study Research Question Selecting and defining a research problem Building the Theory Research Design	
11. Design of Research Presentations Create a Poster and Oral Presentation	
12. Practical Writing Tips What makes a great paper Starting to write for a high impact factor journals	
13. Find reliable journal for Manuscript and submit	

Journal finder Submit your paper Manuscript after submission Why peer review? Peer Review types	
14. Design and General Information on Thesis Writing Saving thesis font Headings and sub headings Table of content Table of tables and table of figures Page numbering References Equation	
15. Reviewing a review paper and presentation	
18. Practical Topics (If there is any)	
19. Examinations:	
20. Extra notes: Here the lecturer shall write any note or comment that is not covered in this template and he/she wishes to enrich the course book with his/her valuable remarks.	
21. Peer review I approve that the course is comprehensive and cover all the aspects of the course. Name: Degree: Specialty: Sign: Date:	پیداچوونہوہی ھاوہل