

Ministry of Higher Education and Scientific research



**Department of Plant Protection**

**College of Agricultural Engineering Sciences**

**University of Salahaddin**

**Subject: Research Methodology**

**Course Book – (Year 4)**

**Lecturer's names: Assist prof. Dr. Tavga Sulaiman Rashid**

**Academic Year: 2023-2024**

**Course Book**

<b>1. Course name</b>	<b>Research methodology</b>
<b>2. Lecturers in charge</b>	<b>Dr. Tavga Sulaiman Rashid</b>
<b>3. Department/ College</b>	<b>Plant Protection/ College of Agricultural Engineering Sciences</b>
<b>4. Contact</b>	<b>e-mail: <a href="mailto:tavga.rashid@su.edu.krd">tavga.rashid@su.edu.krd</a> Tel: 07504524781</b>
<b>5. Time (in hours) per week</b>	<b>Theory: 1 Practical: 3</b>
<b>6. Office hours</b>	<b>Sunday to Thursday</b>
<b>7. Course code</b>	
<b>8. Teacher's academic profile</b>	<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>
<b>9. Keywords</b>	Research methodology, thesis, manuscript, writing and publishing
<b>10. Course overview:</b>	<p>Understand basic terminology and fundamental concepts in research</p> <ul style="list-style-type: none"> <li>- Write research proposal for selected problem definition</li> <li>- Define research methodology for selected problems</li> <li>- Analyse the various types of research designs and select appropriate design for experimentation</li> <li>- Provide guidelines about contents and body of research papers, reports, and theses</li> <li>- Create awareness about various citation index, databases, and search engines</li> <li>- Apply various techniques of avoiding plagiarism to ensure ethical and integral writing</li> </ul>
<b>12. Student's obligation</b>	<p>Lectures are the most common method of teaching. It is most important for students to ensure that have a set of good clear notes based on the lectures and student's own reading. Students have to attend every single lecture on time and have to be prepared for daily quizzes and follow the lecture. They are responsible for all explanations and details that will be given by the lecturer and he/she has to write down them in their notebooks. Referring to text books is also required</p>

in order to have more details about any subject. Based on time schedule, assignments related to the module, will also be given to the students.

### 13. Forms of teaching

Use of data show by preparing PowerPoint presentations in which the outlines of each lecture will be shown but the details of the lecture will be narrated by the lecturer himself. The white board is also required for many explanations and illustrations. In some cases, samples will be shown to students to have a close and real idea on the subject. The concentration will be on student-centred learning method instead of lecturer-cantered one.

### 14. Assessment scheme

Students are evaluated during the semester for the theory part by daily short exams (quizzes) with giving 5 marks out of 25. Two term exams, 20 marks each out of 25, will be required. The practical part is given 15 marks in total. Course works (assignments) are identified in each module description. Penalties are applied for late submission of coursework (5% per working day), unless there are explanatory circumstances and appropriate documentation is provided.

### 16. Course Reading List and References:

Recommended books will be identified at the start of teaching

▪ 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. The Topics:

### Lecturer's name

- |   |                           |
|---|---------------------------|
| 1. Research, Characteristics of Research, Importance to Students  | Dr. Tavga Sulaiman Rashid |
| 2. Types of research  |                           |
| 3. Literature review: carry out and requirements  |                           |
| 4. Selecting and defining a research problem: formulation, criteria, variables and Evaluating problems. |                           |
| 5. Examples of Research at the University: Preparations for an Undergraduate Final Year Project.        |                           |
| 6. Writing Research Proposals   |                           |
| 7. Research components: Introduction and Material &Methods  |                           |
| 8. Research components: Results, discussion and conclusions   |                           |
| 9. References and Abstract  |                           |
| 10. Design of Research Presentations  |                           |
| 11. Designing posters   |                           |

12. Oral presentations	
13. Publishing	
14. Accredited journals	
<b>18. Practical Topics (If there is any)</b>	
<b>19. Examinations:</b>	
<b>20. Extra notes:</b> When an exam deferred by a student, whatever be the reason, he/she has to do the exam within one week from deferral. <b>It is the student's responsibility</b> to contact the lecturer/instructor with the frame time to rearrange for an alternative exam. Failure to do so in a timely fashion may result in a zero grade for the missed exam.	
<b>21. Peer review</b> <span style="float: right;">پیداچوونہوہی ھاوہل</span> I thereby approve that the course is comprehensive and cover all aspects of the course. The subjects are arranged sequentially that enable the students to learn gradually step by step.	
Name:	
Degree:	
Speciality:	
Signed:	
Date:	