Course Description Template: Research Methods

1. Course Name:	
Scientific Research Methods	
2. Course Code:	
WBA-41-06	
3. Semester/Year:	
First Course	
4. Date of preparation of this description:	
24/10/2026	
5. Available Forms of Attendance:	
My presence	
6. Number of Hours (Total) / Number of Units (Total):	
2 Hours / 2 Units	
7. Course Administrator Name	
Name: Eng. Rawaa Mohammed Shimer Email: rawaa.mohammed@uowa.edu.iq	
8. Course Objectives	
✓ Introducing the student to the basic concepts of scientific research, its characteristics, and its importance in the advancement of human thought. ✓ Providing the student with the necessary skills to apply the methodological steps to prepare an integrated scientific research, starting from identifying the problem and ending with writing the results. ✓ Enable the student to distinguish between different types and methods of scientific research and choose the appropriate approach for a specific research problem. ✓ Training the student to write a brief and applied scientific research, while adhering to the technical and material foundations of writing research.	Course Objectives

✓ Developing the student's critical and analytical thinking skills and qualifying him to discuss and defend research.	

9. Teaching and Learning Strategies

✓ Theoretical lectures to explain concepts and methodological steps. ✓ Classroom discussions and brainstorming to develop research ideas. ✓ Practical workshops for training on each step of the research preparation. ✓ A research project (short research) that the student prepares during the semester.	**Strategy**

10. Course Structure

Evaluation Method	Learning Method	Name of Unit or Topic	Required Learning Outcomes	Hours	Week
Daily exams	Lecture + Discussion	Introduction, Concept and Characteristics of Scientific Research, Motivations for Conducting Research.	Understand the nature and importance of scientific research.	4	**1-2**
Participation and Attendance	Lecture + Discussion	Qualities of a researcher and the requirements of good research.	Identify the basic characteristics of a successful researcher.	2	**3**
First Month Exam	Lecture + Examples	Types of Scientific Research, Methods and Classifications.	Distinguish between different types and methods of scientific research.	4	**4-5**
Student Activity	Lecture + Workshop	Steps to prepare the research (identifying the problem, formulating hypotheses, previous studies).	Apply the first steps to prepare the research plan.	6	**6-8**
Daily exams	Lecture + Practical Training	Steps to prepare the research (continued) (theoretical framework, research methodology).	Understand how to build the theoretical and practical framework of the research.	4	**9-10**
Participation and Attendance	Lecture + Examples	The final form of the research, the language and method of the research.	Proficiency in writing the research in the required final form.	2	**11**
Second Month Exam	Lecture + Practical Training	The physical and technical form of the research (footnotes, documentation, references).	Adherence to the technical and material standards of the research.	2	**12**
Student Activity	Workshop + Simulation	Research discussion.	Acquire the skills of presenting and discussing research results.	2	**13**

Participation and Attendance	Lecture + Office Visit	Information resources in libraries.	Learn how to access reliable sources.	2	**14**
Final exam	Writing / Attendance	**Final exam**.	A comprehensive assessment of the student's understanding of the scientific research methodology.	2	**15**

11. Course Evaluation

Distribute the score out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, and written exams, and reports..... etc

A. Daily, Surprise and Oral Exams: 10
B. Student Activities (Reports, Research, Participation): 10 marks
c. Monthly exam (two months): 30 marks
d. Final Exam: 50

Total = 100 Marks

12. Learning and Teaching Resources

Scientific Research Methods (Third Edition) - Prof. Muhammad Sarhan Ali Al-Mahmoudi 2. **Fundamentals of Scientific Research** (First Edition) - Dr. Munther Abdel Hamid Al-Damen.	**Required Textbooks**



