

Ministry of Higher Education and Scientific research



**Department of Chemistry College of Education**

**University of Salahaddin Subject: Research**

**Project Course Book – 4<sup>th</sup> 1<sup>st</sup> and 2<sup>nd</sup> course**

**Lecturer's name Dr. Dler Kurda**

**Academic Year: 2024-2025**

# Course Book

<b>1. Course name</b>	<b>Research project</b>
<b>2. Lecturer in charge</b>	
<b>3. Department/ College</b>	<b>Chemistry- Education</b>
<b>4. Contact</b>	<b>e-mail: dler.kurda@su.edu.krd Tel: 009647504485707</b>
<b>5. Time (in hours) per week</b>	<b>Theory: 1 Practical:-</b>
<b>6. Office hours</b>	<b>30</b>
<b>7. Course code</b>	
<b>8. Teacher's academic profile</b>	<p>I am one of the academic staff at the University of Salahaddin about 18 years ago and graduated from the Faculty of Science Department of Chemistry in the 1996-1997 academic year and then I was appointed as a University Teaching assistant in 1999 and then I accepted in the 2001 M.Sc studies and got a master's degree in 2003 in the specialty of Industrial organic chemistry ...</p> <p>In 2009-2010 I accepted a PhD and got a Ph.D. in polymer specialization in 2013 ...</p> <p>Participated in many scientific seminars, Symposium and cultural and sports gatherings</p>
<b>9. Keywords</b>	
<b>10. Course overview:</b>	<p>This course aims to provide students with a thorough understanding of the interdisciplinary research process. The course uses the students' actual research interests as point of departure for the students to get immersed in developing their own research project. The course examines different research methods and the theoretical assumptions behind each and how they can be employed in practice. We also discuss values, ethics and politics of research. The focus of the course is on each student's research ideas and project.</p> <p>The course starts with a reflection and discussion about interdisciplinarity, where students define their research theme. Hence, we recommend students to start thinking about their chosen topic early on. Throughout the course, the students work with developing their research questions and choose the appropriate methodological approach for their research project. The course consists of a combination of lectures, group discussions, labs with practical exercises, assignments, and four extended peer-review workshops. Students are expected to participate actively in all activities of the course.</p>
<b>11. Course objective:</b>	<p>This course is designed to enable students to:</p> <p>identify and discuss the role and importance of research in the daily life.</p>

identify and discuss the issues and concepts salient to the research process.  
identify and discuss the complex issues inherent in selecting a research problem, selecting an appropriate research design, and implementing a research project.  
identify and discuss the concepts and procedures of sampling, data collection, analysis and reporting.

Student Learning Outcomes:

Students who successfully complete this course will be able to:

explain key research concepts and issues

read, comprehend, and explain research articles in their academic discipline.

### **12. Student's obligation**

- They must have meeting with their supervisor weekly in 2 hrs.
- They must respect all timings according to quality assurance rules
- They must obey to quality assurance in writing reports, presentation, and poster.
- Regular attendance at lectures
- Going to the library with the supervisor or Lecturer

### **13. Forms of teaching**

Using data show

- Presentation
- -online meeting
- Season reports preparing

### **14. Assessment scheme**

Evaluation according to quality assurance rule

1<sup>st</sup> season evaluation (40 degree)

2<sup>nd</sup> season final evaluation

### **15. Student learning outcome:**

Learning outcome

After completing the course, the students will

Knowledge

Have acquired insight in different research traditions and epistemologies

Have realized a deeper understanding of how research as a process is conducted

Be able to apply and evaluate methodological concepts and techniques at an advanced level

Be able to identify and discuss the challenges and dilemmas involved in applying methods in concrete, practical contexts

Skills

Have command over a broad spectrum of perspectives within different research traditions (quantitative/qualitative/mixed-methods)

Be able to apply a critical perspective regarding how methods are used in research

Be able to summarize, present and independently reflect on methods and research

Be able to collaborate with other students in class

Be able to criticize and comment the work of fellow students in a respectful, reflected and constructive manner.  
 General knowledge  
 Have developed a deep understanding and respect for the academic way of thinking  
 Have developed academic curiosity and respect for academic and ethical values

**16. Course Reading List and References:**

Introduction to Research Methods: A Practical Guide for Anyone  
 Undertaking a Research Project  
 by Dr Catherine Dawson  
 Research Methodology, A step-by-step guide for beginners

<b>17. The Topics:</b>	<b>Lecturer's name</b>
General concepts about knowledge and scientific research	Dr Dler Kurda (1hr) 17/9/2024
Definition of scientific research Brief History	Dr Dler Kurda (1hr) 2 weeks 24,1/9/2024
characteristics of scientific research	Dr Dler Kurda (1hr) 8/10/2024
Advantages and Obstacles of Scientific Research	Dr Dler Kurda (1hr) 15/10/2024
Library visit	Dr Dler Kurda (1hr) 22/10/2024
Electronic Library	Dr Dler Kurda (1hr) 29/10/2024
Types of academic studies	Dr Dler Kurda (1hr) 5/11/2024
Programs and internet use for scientific research	Dr Dler Kurda (1hr) 12/11/2024
Parts of research project	Dr Dler Kurda (1hr) 19/11/2024

The difference between theoretical and practical research	Dr Dler Kurda (1hr) 26/11/2024
How to start to write research project	Dr Dler Kurda (1hr) 3/12/2024
Examination and testing students	Dr Dler Kurda (1hr) 10/12/2024
1 <sup>st</sup> Evaluation	Dr Dler Kurda (1hr) 17/12/2024
2 <sup>nd</sup> course Levels of research projects	Dr Dler Kurda (1hr) 7/1/2025
Collection and arrangement of references	Dr Dler Kurda (1hr) 14/1/2025
Starting to write How to write Introduction and Literature review	Dr Dler Kurda (1hr) 2 weeks 21,28/1/2025
Experimental sections	Dr Dler Kurda (1hr) 2 weeks 4,11/2/2025
Results and Discussion	Dr Dler Kurda (1hr) 18/2/2025
Tests of students	Dr Dler Kurda (1hr) 2 weeks 25/2/2025 , 4/3
How to establish good power point	Dr Dler Kurda (1hr) 31/3/2025
2 <sup>nd</sup> Evaluation	Dr Dler Kurda (1hr) 22/4/2025
<b>18. Practical Topics (If there is any)</b>	
<b>19. Examinations:</b>	

should be provided

**3. Multiple choices:**

In this type of exam there will be a number of phrases next or below a statement, students will match the correct phrase. Examples should be provided.

**20. Extra notes:**

**21. Peer review**

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