Research Methodology (CUE31056)

1. Information on the Programme

1.1. Higher Education Institution	Cihan University Sulaymaniyah
1.2. College	Science
1.3. Department	Computer Science
1.4. Field of Study	Research Methodology
1.5. Cycle of Study[1]	1
1.6. Specialization/ Study Programme	Computer Science
1.7. Form of Education	Full Time

2. Information on the Discipline

2.1. Discipline Name	Research Methodology
2.2. Code	
2.3. Language:	English

2.4. (Theory) Lecturer
 	
    E-mail:
 	
    Tel:
	Assistant Lecturer Sherko Hamalaw Murad
	
	sherko.murad@sulicihan.edu.krd
	
	(+964)-07702452429

2.5. Practical/Seminar/ Laboratory/ Project Lecturer
 	
    e-mail:
 	
    Tel:
	Assistant Lecturer Sherko Hamalaw Murad
	
	sherko.murad@sulicihan.edu.krd
	
	(+964)-07702452429

2.6. **Year of Study**	Third	**2.7** **Semester**	Five	**2.8.** **Assessment Type[2]**	Written exam	**2.9.** **Discipline Status**	Content[3]	CD
							Mandotary[4]	MD

3. Total estimated time (Teaching Hours per Semester)

Total Contact Hours:	52
Total Self Study Hours:	110
Total No. Hours:	162
ECTS:	06

No. of Weeks	Contact Hours					Self-Study					
	Theoretical	Practical	Lab.	Project	Visit	Quiz	Reading	Assignment	Report	Midterm Exam.	Final Exam.
1st Week (Registration)	-	-	-	-	-	-	-	-	-	-	-
2nd Week	2	2					2			10	20
3rd Week	2	2				2	2	6			
4th Week	2	2				2	2				
5th Week	2	2				2	2		8		
6th Week	2	2					2				
7th Week	2	2					2				
8th Week	2	2					2			10	
9th Week	2	2				2	2	8			
10th Week	2	2				2	2				
11th Week	2	2					2				
12th Week	2	2				2	2		8		
13th Week	2	2				2	2				
14th Week	2	2					2				
15th Week (Final Exam.)											
16th Week (Final Exam.)											
TOTAL	26	26				14	26	14	16	20	20

4. Prerequisites (if applicable)

4.1 Curriculum-Related	Research Methodology
4.2 Skills-Related	This course will enhance the students' knowledge on research and how to do their graduation project. The students will be taught with the various possible techniques to understand the modern ways of thesis writing.

5. Conditions (if applicable)

5.1. For the Theoretical	1. Read and comprehend the textbook material. 2. Attend all the classes and take notes on class discussions. 3. Actively participate in class discussions and activities. 4. Submit all the assignments and the project on time. **5. Pass tests and quizzes.**
5.2. For the Practical	All students are normally required to attend the lectures; take part in lectures through applying the exercises on the computer or as quizzes, and to implement assignments

6. Cumulated Specific Competences

Professional Competencies	research methodology refers to the knowledge, skills, and attitudes required to effectively conduct research in a systematic and ethical manner. These competencies ensure that researchers are well-equipped to design, execute, and communicate research projects across various disciplines. Key professional competencies in research methodology include: 1. Understanding Research Design 2. Data Collection Techniques 3. Data Analyses 4. Result Discussion
Transversal competences	Transversal competences in research methodology are skills that are transferable across various fields of research and contribute to overall research effectiveness. These competencies are not limited to a specific discipline but are essential for any researcher working in diverse areas. Here are some key transversal competences in research methodology: • Critical Thinking and Analytical Skills • Ethical Awareness and Integrity • Collaboration and Teamwork • Adaptability and Flexibility

7. Discipline Objectives (Based on the cumulated specific Competences)

7.1. General Objective	To let the student to be capable of doing his 4th year project To let the student to be able to carry on his research

7.2. Specific Objectives	Formulating a Clear Research Question, conducting a Comprehensive Literature Review, Selecting an Appropriate Research Design, developing a Data Collection Plan, Ensuring Ethical Conduct in Research,

8. Content

Week	8.1. Theoretical-Number of Hours	Teaching methods	Observation
1	Registration		
2	Research, Objectives	lecture	1 lecture = 1 hours
3	Motivation, Writing literature	lecture	1 lecture = 1 hours
4	Graduation project,	lecture	1 lecture = 1 hours
5	Graduation project. Count	Lecture	1 lecture = 1 hours
6	Project presentation, Hypothesis	Lecture	1 lecture = 1 hours
7	Result, Result Analysis	Lecture	1 lecture = 1 hours
8	Plan of Research, Qualitative research	Lecture	1 lecture = 1 hours
9	Applied research	Lecture, Quiz	1 lecture = 1 hours
10	Experimental research	Lecture	1 lecture = 1 hours
11	Plan of research	lecture	1 lecture = 1 hours
12	Qualitative research	lecture	1 lecture = 1 hours
13	Central tendency	lecture	1 lecture = 1 hours
14	Final examination	lecture	1 lecture = 1 hours

week	8.2. Practical Works–Number of Hours	Observation
1	Registration	
2	Lecture	**1 lecture = 2 hours**
3	Lecture	**1 lecture = 2 hours**
4	Lecture	**1 lecture = 2 hours**
5	Lecture, assignment	**1 lecture = 2 hours**
6	Lecture	**1 lecture = 2 hours**
7	**MIDTERM EXAM 1**	**2 hours**
8	Lecture	**1 lecture = 2 hours**
9	Lecture	**1 lecture = 2 hours**
10	Lecture	**1 lecture = 2 hours**
11	**MIDTERM EXAM 2**	**2 hours**
12	Lecture	**1 lecture = 2 hours**
13	Lecture	**1 lecture = 2 hours**
14	Lecture	**1 lecture = 2 hours**

Compulsory bibliography: Key references:

1. Fundamentals of Computer Programming with C# by Svetlin Nakov.

2. C# Yellow Book by Rob Miles.

Optional Bibliography:

C# Programming for the Absolute Beginner'' by Andy Harris

9. Assessment

Type of Activity	9.1. Assessment Criteria[2]	9.2. Assessment Type	9.3. Percentage of the final Grade
9.4. Theoretical	Mid-term (30%)	Exam	**%30**
9.5. Practical/ Seminar/Laboratory	Final-Exam (60%)	Exam	**%60**
9.6. Activity during Semester	Quizzes (2%) Assignment (2%) Attendance (2%) Report (4%)	Exam	**%10**

Minimum performance Standards: basic knowledge of hardware and software with basics of java language.

Theoretical Lecturer	**Assistant Lecturer Scherko hamalaw Murad**
Practice Lecturer	**Assistant Lecturer Scherko Hamalaw Murad**

Approved by the Curriculum development Committee:	
1	Asst Prof Dr. Lway Faisal Abdulrazak
2	
3	
Head of the Department/ Dean	Asst Prof Dr. Lway Faisal Abdulrazak