

**Ministry of Higher Education and Scientific Research  
Scientific Supervision and Scientific Evaluation Apparatus  
Directorate of Quality Assurance and Academic Accreditation  
Accreditation Department**



# **Academic Program and Course Description Guide**

2024 - 2025



## Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.



In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.







## Concepts and terminology:

**Academic Program Description:** The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

**Course Description:** Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

**Program Vision:** An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

**Program Mission:** Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

**Program Objectives:** They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

**Curriculum Structure:** All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

**Learning Outcomes:** A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

**Teaching and learning strategies:** They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

## Academic Program Description Form



**University Name:** Wasit University

**Faculty/Institute:** College of Computer Science and Information Technology

**Scientific Department:** Software Department

**Academic or Professional Program Name:** Master of Programming Science

**Final Certificate Name:** Master of Programming Science

**Description Preparation Date:** 10/9/2024

**File Completion Date:** 10/9/2024

**Signature:**

**Head of Department Name:**

**Date:**

الدكتور  
احمد رعد عبد الحسين  
رئيس قسم البرمجيات  
15/9/2024

**Signature:**

**Scientific Associate Name:**

**Date:** 15/09/2024

Dr. Ahmad Shaker Abdalaziz  
Assistant of Dean for Scientific Affairs

**The file is checked by:**

**Department of Quality Assurance and University Performance**

**Director of the Quality Assurance and University Performance Department:**

**Date:** 15/9/2024

**Signature:**

علي كنعان جعبل  
15/9/2024

**Approval of the Dean**

15/9/2024  
Asst. Prof. Dr  
Saif Ali Abaidi  
College of Computer  
Science & Information Technology

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### 1. Program Vision

The Software Department seeks to excel by offering an academic program that meets international standards in the field of software sciences, which helps in preparing qualified and trained national competencies.

### 2. Program Mission

Preparing qualified graduates with high skills and sufficient experience to join and engage in the labor market in the field of software sciences by providing them with the latest knowledge, advanced skills and high ethical values to serve the nation, in addition to creating new study programs in undergraduate and graduate studies to keep pace with modern technological developments in the field of software, artificial intelligence and networks.

### 3. Program Objectives

- Focus on creating applied and technological specializations and continuous development of curricula, and adopting modern teaching and learning methods that are compatible with the requirements of the labor market.
- Directing support towards applied scientific research within national priorities and focusing on creativity, leadership and innovation.
- Organizing seminars and courses and holding scientific conferences with the aim of exchanging experiences.
- Seeking to obtain international accreditation certificates such as the American ABET accreditation and the National Quality Assurance Certificate.
- Paying attention to student activities and developing their skills and developing students' human skills while creating mechanisms to encourage students to excel.





#### 4. Program Accreditation

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#### 5. Other external influences

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#### 6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*



Department				
Requirements				
Summer Training				
Other				

7. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
m.sc			theoretical	practical
		Data mining	2	-
		Software development techniques	2	-
		Cyber security	2	-
		English	2	-
		Advanced software engineering	3	-
		Computer vision	2	-

8. Expected learning outcomes of the program
<b>Knowledge</b>
<p>Knowledge of basic concepts in computers and programming</p> <ul style="list-style-type: none"> <li>• Identify and use application programs</li> <li>• Identify and use different system software</li> <li>• Study a number of programming languages and their applications</li> <li>• Identify and apply information technology concepts</li> </ul>
<b>Skills</b>





- Short cognitive tests
- Conducting scientific research
- Semester tests (theoretical, practical)
- Assignments and discussions within the lecture.

#### Ethics

- Brainstorming ((brain storm

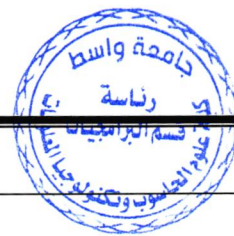
It means generating and producing creative ideas and opinions from individuals and groups to solve a specific problem, and these ideas and opinions are good and useful, i.e. putting the mind in a state of excitement to think in all directions to generate the greatest amount of ideas about the problem or topic at hand, so that the individual is provided with an atmosphere of freedom that allows all opinions and ideas to appear. The method of discussions and brainstorming is applied through lectures and in all educational situations.

- Group work

This method depends on dividing learners into small groups (from 2 to 4 individuals) of different abilities who work together to achieve common goals and interact with each other. This method helps learners increase their learning and communication and acquire communication skills, work in a team, exchange views and evaluate them.

- Problem-based learning

This method usually begins with a faculty member presenting a problem, and it is impossible to solve this problem without collecting some data and information and mastering some skills (which are considered among the targeted educational outcomes of the course.) The method of solving problems is called (the scientific method of thinking) and work begins to find a solution to these problems with the help of Faculty and support staff: Collect data – Propose alternatives – Choose the best solutions – Make the final decision.



- Learning through case study

In this method, what has been studied theoretically is applied in a practical way through a real or imaginary case study that the faculty member has developed to serve the purpose of the educational process. This gives the student the ability to analyze – organize ideas – build conclusions – summarize the main points – find solutions

## 9. Teaching and Learning Strategies

Theoretical teaching of the prescribed curriculum with a link to practical life through practical examples

This part of the strategy includes the teaching methods followed that are in line with the nature of the demand for software sciences. In order to achieve this desired benefit, the education system in the department relies on self-learning, interactive and applied methods that require the use of different educational methods that suit them and achieve maximum benefit by following different methods of teaching and learning.

Teaching and learning methods in the department:

### 1. Lectures.

Lectures represent the largest proportion of the core courses in the bachelor's program to establish the basic principles of computer science for all students in the department. Audio and visual aids are used in lectures: The scientific material is prepared on the presentation program and displayed using the display devices for these presentations, where questions or activities performed by the student are integrated between the scientific concepts presented. There is no doubt that this interaction between the student and the lecturer prevents the student from being distracted and helps him focus for the longest possible period.

### 2. Discussion





It is a method in which the faculty member and students are in a positive position, as the issue or topic is raised and after exchanging different opinions among the students, the faculty member comments on what is correct and what is incorrect and crystallizes all of that in points about the topic or problem.

### 3. Peer Teaching

This method is followed in many courses, as some students are assigned to prepare some topics related to the scientific material in the form of study circles and then present them to their colleagues in the form of presentations with a detailed explanation of those topics. This is done under the supervision of the faculty member who reviews the scientific material before presenting it to the students and corrects any errors in it and requests the addition of what he deems appropriate. It also encourages the listening students to direct questions and inquiries to their colleague who is presenting.

## 10. Evaluation methods

The performance of students is evaluated and monitored by the department to ensure that they reach the desired and expected goals at each stage, which qualifies graduate students to reach the educational goals required for the program. The performance of students in each subject is evaluated separately, where the instructor responsible for the subject provides a semester effort grade according to the student's academic stage in that subject, and the type of evaluation. It varies from one subject to another according to the type of subject and its requirements. Students are usually evaluated through a set of daily and monthly assignments and exams, in addition to class participation, effectiveness and productivity in



laboratories. Some subjects require projects from students, while others require reports and an oral presentation of their work. Projects undertaken by students may require evaluation by a committee of instructors, such as the final project subject submitted by students in the final stages, where the student is required to write a report on his project and present the project to a committee of instructors, discuss it and answer questions about it. The methods of evaluating students in the department take into account measuring the targeted learning outcomes that were achieved through previous learning methods. Students are evaluated through:

- Written theoretical tests that measure all the targeted learning outcomes that can be measured through this type of test, not only knowledge but also all mental skills, through diversification in the types of questions used
- Other tests represented by other evaluation methods that differ from one course to another in order to achieve the targeted learning outcomes for each course and include:

Semester work

Assignments, assignments and projects.

Daily exams

Discussions - seminars - lectures - exercises - assignments and preparing reports

Daily tests with multiple-choice questions that require scientific skills

Participation grades for competition questions for academic topics

Setting grades for homework

Reports and studies





## 11. Faculty

### Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer

### Professional Development

#### Mentoring new faculty members

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#### Professional development of faculty members

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## 12. Acceptance Criterion

Average of the student and the competitive exam

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## 13. The most important sources of information about the program

- College and University Website
- University Requirements
- Local Academic Trends
- Global Academic Requirements

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#### 14. program development plan

- 1- Adding some curricula to the prescribed curriculum
- 2- Keeping pace with the development taking place in the various methods and approaches of the course
- 3- Adding everything that is new and useful for the student to acquire new skills and use modern sources to develop their ability





## Program Skills Outline

Required program Learning outcomes																
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics				
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	
Master		Data mining	Basic	+	+	+	+	+	+	+	+	+	+	+	+	+
		Software development techniques	Basic	+	+	+	+	+	+	+	+	+	+	+	+	+
		Cyber security	Basic	+	+	+	+	+	+	+	+	+	+	+	+	+
		English	Basic	+	+	+	+	+	+	+	+	+	+	+	+	+
		Advanced software engineering	Basic	+	+	+	+	+	+	+	+	+	+	+	+	+
		Computer vision	Basic	+	+	+	+	+	+	+	+	+	+	+	+	+





## Course Description Form



1. Course Name:

Computer vision

2. Course Code:

3. Semester / Year:

First semester / 2024-2025

4. Description Preparation Date:

1/9/2024

5. Available Attendance Forms:

Class attendance

6. Number of Credit Hours (Total) / Number of Units (Total)

30 hours / 2 units

7. Course administrator's name (mention all, if more than one name)

Abdulhadi Mohammed idkheel

8. Course Objectives

The Computer Vision course aims to introduce students to the skills of cameras and optics, light and color, image pyramids and applications, modeling and frequency domain analysis, and the many applications of computer vision.

9. Teaching and Learning Strategies

Cognitive objectives

- During the course, the student learns the basics of computer vision.
- Understand the basics of cameras and optics, light and color, image pyramids and applications, model installation and frequency domain analysis.
- Learn how to think about edges, interest points, line and corner detection, local image invariant features, feature matching and Hough transform, model installation and RANSAC, and feature detectors: SURF and SIFT, etc. Overview of segmentation, segmentation and clustering techniques, erosion, expansion, opening and closing morphological operations, some basic morphological algorithms.
- The student learns to use motion in segmentation, some clustering algorithms. Basic concepts in classification and recognition, classification: generative and discriminative models, introduction to object recognition, multiple perspectives, motion and tracking.

B- Subject-specific skill objectives

- Learn how to deal with cameras, optics, images, light and color.



- Learn about different types and techniques for segmentation, clustering and feature detectors.
- Familiarity with the basic concepts of object recognition, multiple perspectives, movement and tracking.
- Familiarity with clustering algorithms and basic concepts in classification

Teaching and learning methods:

- The instructor prepares lectures on the subject in electronic form and presents them to students.
- The instructor gives lectures in detail.
- The instructor requests periodic reports and homework on the basic topics of the subject.

Evaluation methods:

- Daily discussion to determine the extent of students' comprehension of the subject and to evaluate daily participation.
- Daily exams with various short scientific questions to understand the extent of their comprehension of the subject.
- Giving part of each semester's grade to homework.
- Daily exams (Quozat) and monthly exams for the curriculum and the final exam

C- Emotional and value objectives:

- Urging the student to understand the purpose of studying the subject in general.
- Urging the student to understand the work of each function or code within the language.
- Urging the student to think about how to develop himself in the field of computers.
- Making the student able to deal with the computer and how to use programs.

D - General and transferable qualification skills (other skills related to employability and personal development).

- Enabling students to write reports on topics related to the computer vision subject.
- Enabling students to use the Internet to obtain important information.
- Raising the student's self-confidence by linking the theoretical material to practical reality.
- Developing students' skills in how to deal with physical and software computer problems and how to deal with them.






		<p>thresholding, region-based methods).</p> <p>Image Transformations: Geometric transformations (scaling, rotation, affine transformations).</p> <p>Feature Extraction Techniques: Edge detection (e.g., Canny), texture analysis, and keypoint detection.</p>		
12-15	8	<p>Image Classification and Object Recognition: Fundamentals of image classification and recognition. Image Classification and Object Recognition: Fundamentals of image classification and recognition.</p> <p>Supervised and Unsupervised Learning Algorithms: Using classifiers such as SVM, KNN, and clustering techniques.</p> <p>Deep Learning Techniques for Object Recognition: Convolutional Neural Networks</p>	<p>Lectures PDF power point Video</p>	<p>Daily exams + monthly exams</p>



## 10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	4		Introduction to Computer Vision: Definition and scope of computer vision. Evolution and Applications of Computer Vision: Overview of the computer vision pipeline and its real-world applications.	Lectures PDF power point Video	Daily exams + monthly exams
3-7	10		Image Formation and Preprocessing: Image acquisition, representation, and color spaces.  Image Enhancement Techniques: Filtering, histogram equalization, and contrast adjustments.	Lectures PDF power point Video	Daily exams + monthly exams
8-11	8		Image Formation and Preprocessing: Image acquisition, representation, and color spaces.  Image Enhancement Techniques: Filtering, histogram equalization, and contrast adjustments.  Image Segmentation and Feature Extraction: Segmentation techniques (e.g.,	Lectures PDF power point Video	Daily exams + monthly exams

			(CNNs) and transfer learning.		
			Basics of Image Tracking and Motion Estimation: Optical flow algorithms and motion analysis.		
			Object Tracking Algorithms: Introduction to Kalman filters, particle filters, and real-time tracking.	Lectures PDF power point Video	Daily exams + monthly exams
			3D Computer Vision: Stereo vision, depth estimation, and 3D reconstruction.		
			Advanced Topics in Computer Vision: Generative models, Vision Transformers, and self-supervised learning.		
			Final Exam and Project Presentations: Comprehensive exam and student project demonstrations.		



#### 11-Course Evaluation

- Daily discussion to know the extent of students' comprehension of the material and to evaluate daily participation.
- Daily exams with various short scientific questions to understand the extent of their comprehension of the material.
- Allocating part of each semester's grade to homework.
- Daily exams (Quozat) and monthly exams for the curriculum and the final



exam.

## 12-Teaching and learning resources

### **Required textbooks:**

Szeliski, Richard, " Computer vision: algorithms and applications", Springer Science and Business Media, 2010.

### **Main References (Sources):**

Lectures given by the course instructor

Books available in the college library

### **Recommended books and references (scientific journals, reports, etc.)**

- Forsyth and Ponce, " Computer Vision: A Modern Approach", 2nd Edition, Prentice Hall, 2011.
- Prince, Simon JD, " Computer vision: models, learning, and inference", Cambridge University Press, 2012.
- Davies, E. Roy, " Computer and machine vision: theory, algorithms, practicalities", Fourth Edition, Academic Press, 2012.
- Nixon, Mark S., and Alberto S. Aguado, " Feature extraction and image processing for computer vision", Academic Press, 2012.





## Course Description Form



1. Course Name:

Software development techniques

2. Course Code:

3. Semester / Year:

First semester / 2024-2025

4. Description Preparation Date:

29/10/2024

5. Available Attendance Forms:

Class attendance

6. Number of Credit Hours (Total) / Number of Units (Total)

30 hours / 2 units

7. Course administrator's name (mention all, if more than one name)

Sinan adnan diwan

8. Course Objectives

Learn software development techniques.

9. Teaching and Learning Strategies

A - Cognitive objectives:

- Identify the principles and basics of software development techniques.
- Apply software development techniques.
- Realize the importance of software development techniques.

B - Course specific skill objectives:

- Ability to give a lecture related to software development techniques.
- Ability to manage dialogues and discussions related to software development techniques.

Teaching and learning methods:

- Use of technology when giving lectures.

Evaluation methods:

- Daily surprise exams.
- Monthly exams.
- Monthly reports.
- Semester exams.

C- Emotional and value objectives

- Attention to the lecture



- Participation in the lecture
- Acceptance of the lecture
- Desire to continue the lecture



## 10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	Examinations		Introduction to Software development.	Lectures	Examinations
2	Examinations		Agile methodology	Lectures	Examinations
3	Examinations		Extreme programming model	Lectures	Examinations
4	Examinations		Scrum model	Lectures	Examinations
5	Examinations		Lean Software development	Lectures	Examinations
6	Examinations		Kanban mode	Lectures	Examinations
7	Examinations		Project planning	Lectures	Examinations
8	Examinations		Task Estimate	Lectures	Examinations
9	Examinations		Requirements of project	Lectures	Examinations
10	Examinations		Software Architecture	Lectures	Examinations
11	Examinations		Design Principles	Lectures	Examinations
12	Examinations		Code Construction	Lectures	Examinations
13	Examinations		Smart Programming by Python language	Lectures	Examinations
14	Examinations		Functions by Python programming language	Lectures	Examinations

15	Examinations		Recursion by Python programming language	Lectures	Examinations
161-Course Evaluation					
<ul style="list-style-type: none"> <li>• Homework and participation in daily preparation.</li> <li>• Awarding grades to students for some questions asked in the lecture.</li> <li>• Monthly exams.</li> </ul>					
12-Teaching and learning resources					





## Course Description Form



1. Course Name:

Data mining

2. Course Code:

3. Semester / Year:

First semester / 2024-2025

4. Description Preparation Date:

16/9/2025

5. Available Attendance Forms:

Class attendance

6. Number of Credit Hours (Total) / Number of Units (Total)

30 hours / 2 units

7. Course administrator's name (mention all, if more than one name)

Dhyaa shaheed saber

8. Course Objectives

A detailed study of the concept of data mining

9. Teaching and Learning Strategies

- Project Based Learning.
- Collaborative Learning.
- Case-Based Learning.
- Active Learning.
- Presentations and Brainstorming.
- Self-Assessment and Peer Review.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	<ul style="list-style-type: none"> <li>• Data Mining Concept</li> <li>• Multiple Knowledge Mining</li> <li>• Data Mining and Studies</li> <li>• Data Mining and</li> </ul>	Introduction	Lectures	Exams

		Applications • Data Mining and Society.			
2	2	<ul style="list-style-type: none"> <li>• Data types</li> <li>• Data statistics</li> <li>• Similarity and difference measures</li> <li>• Quantitative data, data cleaning and integration.</li> <li>• Data transformation</li> <li>• Dimensional measurement reduction.</li> </ul>	Data, Measurements and Processors	Lectures	Exams
3	2	<ul style="list-style-type: none"> <li>• Data Warehouse</li> <li>• Data Warehouse Architecture and Installation</li> <li>• Data Lake</li> </ul>	Data Warehousing and online analytical processing	Lectures	Exams
4	2	<ul style="list-style-type: none"> <li>• Data warehouse modeling: structure and metrics.</li> <li>• Cube data.</li> <li>• Multidimensional structure models.</li> <li>• Concept of hierarchies.</li> <li>• Measurements: classification and imputation.</li> <li>• OLAP operations.</li> <li>• Methods for imputation of data cubes</li> </ul>	Data Warehousing and online analytical processing	Lectures	Exams
5	2	<ul style="list-style-type: none"> <li>• Basic concepts.</li> <li>• Frequent pattern mining methods.</li> <li>• Pattern evaluation methods.</li> </ul>	Data Mining: Basic Methods and Concepts	Lectures	Exams
6	2		Exam	Lectures	Exams





13	2	<ul style="list-style-type: none"> <li>• Probability-based clustering.</li> <li>• Multidimensional data clustering.</li> <li>• Dimensionality reduction.</li> <li>• Schema and network clustering.</li> </ul>	Cluster Analysis: Advanced	Lectures	Exams
14	2	<ul style="list-style-type: none"> <li>• Basic concepts.</li> <li>• Deep learning optimization models and methods.</li> <li>• Convolutional Neural Networks</li> <li>• Recurrent Neural networks</li> </ul>	Deep learning	Lectures	Exams
15	2		Exam	Lectures	Exams

#### 11-Course Evaluation

- Homework and participation in daily preparation.
- Awarding grades to students for some questions asked in the lecture.
- Monthly exams

#### 12-Teaching and learning resources

Data Mining Concepts and Techniques, Fourth Edition, Jiawei Han & Jian Pei & Hanghang Tong, Morgan Kaufmann Publishers, 2023





## Course Description Form

1. Course Name:

Cyber security

2. Course Code:

3. Semester / Year:

First semester / 2024-2025

4. Description Preparation Date:

16/9/2024

5. Available Attendance Forms:

Class attendance

6. Number of Credit Hours (Total) / Number of Units (Total)

30 hours / 2 units

7. Course administrator's name (mention all, if more than one name)

Riyadh rahef nuiaa

8. Course Objectives

To enable students to gain a comprehensive understanding of cybersecurity and its advanced applications in multiple fields.

9. Teaching and Learning Strategies

A- Cognitive objectives

- Understand the basics of cybersecurity, including threats and vulnerabilities.
- Apply encryption techniques and analyze secure communications.
- Understand the importance of risk management policies and procedures.
- Identify the differences between common attacks and defense techniques.
- Understand the security challenges associated with cloud computing and mobile devices.
- The ability to analyze threats to the Internet of Things and industrial security.

B- Course specific skill objectives

- The ability to use cybersecurity tools to analyze attacks.
- Develop skills in investigating digital evidence and dealing with security incidents.
- The ability to design and implement advanced security strategies.
- Enhance practical skills in ethical hacking and security testing.

Teaching and learning methods:

- Use interactive lectures and present case studies.
- Conduct practical experiments using specialized security tools.





- Conduct discussions to exchange ideas about the latest developments in cybersecurity.

#### Evaluation methods

- Homework assignments and applied projects.
- Short surprise tests and monthly tests
- Practical assessments on the use of security tools.
- Analytical reports on case studies and recent threats.
- Semester exams.

#### C- Emotional and value-based objectives

- Interest in attending lectures and active participation.
- Enhancing the desire to continuously develop security skills.
- Developing the ability to accept new technologies in the security field.

### 10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 - 4	16		Introduction to Cybersecurity		
5 - 8	16		Risk Management, Security Policies, and Cryptography Techniques		
9 - 15	28		Network Security, Web Application Security, and Malware		
16 - 17	8		Malware Detection and Cloud Security Challenges		
18 - 19	8		Mobile Security and Internet of Things (IoT)		
20 - 25	24		Penetration Testing and Incident Response		
26 - 30	20		Artificial Intelligence and Blockchain in Cybersecurity and the Final Project		



## 11- Course Evaluation

- Homework and participation in daily preparation.
- Awarding grades to students for some questions asked in the lecture.
- Monthly exams

## 12- Teaching and learning resources

- Introduction to Cybersecurity A Multidisciplinary Challenge by Robin Sharp.
- Cybersecurity Fundamentals A Real-World Perspective by Dr Kutub Thakur and Dr Al-Sakib Khan Pathan.
- Cybersecurity Essentials 1st Edition by Charles J. Brooks, Christopher Grow, Philip A. Craig Jr., Donald Short.





## Course Description Form



<b>1. Course Name:</b>					
English					
<b>2. Course Code:</b>					
<b>3. Semester / Year:</b>					
2024-2025					
<b>4. Description Preparation Date:</b>					
26/9/2024					
<b>5. Available Attendance Forms:</b>					
Class attendance					
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>					
15 hours /1unit					
<b>7. Course administrator's name (mention all, if more than one name)</b>					
Hayder O. Alwan  <u>h.alwan@uo</u> <u>wasit.edu.iq</u>					
<b>8. Course Objectives</b>					
<p><b>Course Objectives</b></p> <p>This course mainly focused on reading and writing essays and how to write any paragraphs to the main idea and details. Dozens of new vocabularies will be banned on the first page of each chapter, and finally there will also be a set of systematic instructions in this course.</p>					
<b>9. Teaching and Learning Strategies</b>					
<b>Strategy</b>		This English course for graduate students aims to develop some basic skills such as listening and speaking, adding new vocabulary, and reviewing the topic of tenses and how to distinguish between them.			
<b>10. Course Structure</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	1	Tenses, Shorts answers	Chapter 1; It's a wonderful world	Data Show	Written Test

2	1	Social expression	Auxiliary Verb	=	=
3	1	Reading Skills	Wounder world	=	=
4	1	Present simple and present continuous	Getting happy	=	=
5	1	Passive Voice	The Clown Doctor	=	=
6	1	vocabulary	Sport and Leisure activity	=	=
7	1	Past simple tense	Telling Tales	=	=
8	1	Art and Literature	Vocabulary on Arts and Literature	=	=
9	1	Reading and speaking	The painter and the writer	=	=
10	1	listening and Writing	Giving opinion	=	=
11	1	Model verb	doing the Right thing	=	=
12	1	Obligation and permission	استخدام should and Must	=	=
13	1	Reading and speaking	How to behave abroad	=	=
14	1	Good manners	Nationality words	=	=
15	1	Listening and speaking	Request and offers	=	=





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## 11. Course Evaluation

The distribution of the 30-point effort mark is based on the tasks assigned to the student, such as daily preparation, daily, oral and monthly exams. The final theoretical exam is worth 70 points.

## 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

