

**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

2026-2025



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.

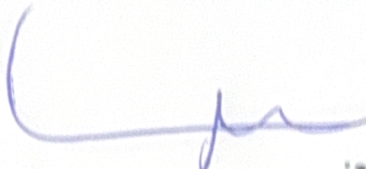
Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

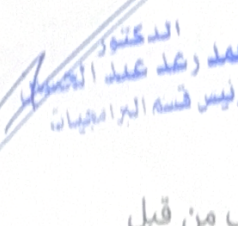


وزارة التعليم العالي والبحث العلمي
جهاز الإشراف والتقييم العلمي
دائرة ضمان الجودة والاعتماد الأكاديمي

استمارة وصف البرنامج الأكاديمي للكليات و المعاهد

الجامعة: واسط
الكلية/ المعهد: كلية علوم الحاسوب وتكنولوجيا المعلومات
القسم العلمي: البرامجيات
تاريخ ملء الملف: 20/9/2025

التوقيع: 
اسم المعاون العلمي: ٢٠١ د. عبد الكريم
التاريخ: ٢٠٢٥/٩/٢٠

التوقيع: 
اسم رئيس القسم:
التاريخ:
الدكتور
احمد رشيد عبد الحاميد
رئيس قسم البرامجيات

دقق الملف من قبل
شعبة ضمان الجودة والأداء الجامعي
اسم مدير شعبة ضمان الجودة والأداء الجامعي:
التاريخ
التوقيع

التوقيع: 
مصادقة السيد العميد
٢٠٢٥/٩/٢٠

التوقيع: 
السيد العميد

Course Description Form

1. Course Name:					
Simulation systems					
2. Course Code:					
3. Semester / Year:					
First semester / 4					
4. Description Preparation Date:					
2025/9/15					
5. Available Attendance Forms:					
Class attendance					
6. Number of Credit Hours (Total) / Number of Units (Total)					
Hours 30 / units 3					
7. Course administrator's name (mention all, if more than one name)					
Dr. huda lafta majeed					
8. Course Objectives					
9. Teaching and Learning Strategies					
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-4	12		Introduction	Lectures	Exams
5-8	3		Understanding how to work with translators, interpreters and programming languages		



9	3		Errors and their types		
10	3		Structure of translators, explanation and required mechanisms		
11	3		Ambiguity and repetition in grammar		
12	3		Left facoter		
11-Course Evaluation					
12-Teaching and learning resources					



Course Description Form

1. Course Name:					
Operation systems					
2. Course Code:					
3. Semester / Year:					
First semester / 4					
4. Description Preparation Date:					
2025/9/15					
5. Available Attendance Forms:					
Class attendance					
6. Number of Credit Hours (Total) / Number of Units (Total)					
hours / units					
7. Course administrator's name (mention all, if more than one name)					
Ali husain muter					
8. Course Objectives					
9. Teaching and Learning Strategies					
					
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Scheduling Algorithm (FCFS and SJF)	Lectures	Exams
2	2		Scheduling Algorithm (Priority and Round Robin)		
3	2		Information Management (File System)		
4	2		Access Methods (Sequential, Direct access, and other access)		

			Methods)		
5	2		Directory structure (Single level, and Two level Directories)		
6	2		Directory structure (Tree, and Acyclic Graph Directories)		
7	2		اختبار رقم ١		
8	2		Free-space list (Bit vector, and Linked List)		
9	2		Free-space list (Grouping, and Counting)		
10	2		Allocation methods (Contiguous, Linked, and Indexed)		
11	2		Deadlocks definition and Deadlock Necessary conditions		
12	2		Resources-Allocation Graph (RAG)		
13	2		Methods for Handling Deadlocks (prevention and Avoidance)		
14	2		Safe state, ARG Algorithm, and Banker's Algorithm		
15	2		اختبار رقم ٢		

11-Course Evaluation

12-Teaching and learning resources

Abraham Silberschatz, et al, "Operating System Concepts," 10th
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Course Description Form

1. Course Name:					
Networks					
2. Course Code:					
3. Semester / Year:					
First semester / 4					
4. Description Preparation Date:					
2025/9/15					
5. Available Attendance Forms:					
Class attendance					
6. Number of Credit Hours (Total) / Number of Units (Total)					
hours 60/ units 4					
7. Course administrator's name (mention all, if more than one name)					
Dr. Mustafa raheem					
8. Course Objectives					
9. Teaching and Learning Strategies					
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-5	16		Introduction The four network protocol groups	Lectures	Exams
5-9	20		The last two layers of protocols - Understanding the process of multiplexing and identifying its first		



			type, frequency division, and the second type as well. - Data communications model		
11-15	24		-Analog signals - Bandwidth - Understanding the types of noise and how to measure it - Knowing how to calculate channel capacity		

11-Course Evaluation

Distribution as follows: 20 marks for the first and second monthly exams, 10 marks for the first and second monthly practical exam, 10 marks for daily and homework assignments, total 40 marks for the semester effort. 40 marks for the theoretical exam and 20 marks for the practical exam for the final exams, total 60.

12-Teaching and learning resources

Network management confidentiality

