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

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.

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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 extracurricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: University of Basra

Faculty/Institute: Collage of Computer Science and Information System

Scientific Department: Computer Information System

Academic or Professional Program Name: *Business Information syst*

Final Certificate Name: B.SC. oF Computer Information System

Academic System: Semester System

Description Preparation Date: 1-9-2024

File Completion Date:

Signature: *[signature]*

Head of Department Name:

Prof. Dr. Haider M.Al-Mashhadi

Date: *28-9-2025*

Signature: *[signature]*

Scientific Associate Name:

Prof. Dr. Abbas H.Al-Asaadi

Date: *28-9-2025*

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature: *[signature and stamps]*

Approval of the Dean

5

Course Description Form

1. Course Name:
Business Information System
2. Course Code:
3. Semester / Year:
2024\2025
4. Description Preparation Date:
31\5\2025
5. Available Attendance Forms:
Lectures + laboratories and programs
6. Number of Credit Hours (Total) / Number of Units (Total)
3
7. Course administrator's name (mention all, if more than one name)
Name:Arafat Naser Jasim Email:Arafat alyousuf@uobasrah.edu.iq
8. Email: Course Objectives

Course Objectives	- It focuses in particular on the use of information technology to support management and decision-making functions - It aims to provide students with the skills necessary to analyze, design and develop information systems that meet the needs of managers at various administrative levels. - Introducing students to the use of information systems in business process management, inventory tracking, customer relationship management, and strategic decision making. - Analyzes user needs and designs and develops information systems that meet these needs
9. Teaching and Learning Strategies	

Strategy	Providing practical training as an essential part of studying business information systems, allowing students to apply the acquired knowledge in real work environments				

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
Week1	3	Understanding the organization and the purpose of its existence	What is an organization?	Explaining an introduction to what an organization is, who it consists of, and what are the goals of its existence	Explanation and discussion
Week2	3	We learn about the most important features of organizations	Organization features	Open the door to discussion on each point	Explanation and discussion
Week3	3	Understanding regulatory policy, culture and environment	What is organizational culture	We define the difference between policy and organizational culture	ask the questions
Week4	3	Explain what the environment is	the organization's environment	Environmental impacts on the organization	Explanation and discussion
Week5	3	Organizational structure	Explain the organizational structure	divisions of the structure	Explanation and discussion
Week6	3	Monthly exam	Monthly exam	Monthly exam	Monthly exam
Week7	3	Understanding how business systems affect a country's economy	How the organization of business systems affects organizations and businesses Economic impacts	Explaining and clarifying the relationship between organizations and the economy	ask the questions
Week8	3	Clarifying the concept of agency theory	agency theory	Its importance and reasons for its existence	Explanation and discussion

Week9	3	Organizational and behavioral influences Information technology crushes organizations	Information technology crushes organizations	Explain what the effects are and their details	Explanation and discussion
Week10	3	Clarifying organizational resistance to change	Organizational resistance to change	Statement of the reasons driving resistance	Explanation and discussion
Week11	3	What is transaction cost theory	transaction cost theory	Statement of the reasons for the emergence of importance to the organization	ask the questions
Week12	3	Explaining the importance of business transformation	The role of information systems in business today How information systems transform businesses	Explaining the importance of business transformation in light of information systems	Explanation and discussion
Week13	3	The role of information systems in business today	The importance of systems in business	What systems should be identified	Explanation and discussion
Week14	3	Understanding practical applications of business information systems	Examples of business applications	Why we focused on these examples	Explanation and discussion
Week15	3	Final exam of the course	Final exam of the course	Final exam of the course	Final exam of the course

11. Course Evaluation
Final exam for the course

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	**Information Systems For Business And Beyond** *A Look At The Technology, People, And Processes Of Information Systems*

15

Main references (sources)	*DAVID T. BOURGEOIS, PH.D.*Published Through The Open Textbook Challenge By The Saylor AcademyWashington, D.C 2.Business Information Systems ,Elizabeth hardcastle &Ventus publishing Aps.2008
Recommended books and references (scientific journals, reports...)	Business Information Systems Third Edition Paul Beynon-Davies Professor Of Organisational Informatics, Cardiff Business School, Cardiff Universit 4.Hapter Eight: Case Four-Old Chemistry Building Renovation Projec
Electronic References, Websites	https://www.coursera.org/articles/business-systems-analyst

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University Name: University of Basra

Faculty/Institute: Collage of Computer Science and Information System

Scientific Department: Computer Information System

Academic or Professional Program Name: Data Mining & Warehousing

Final Certificate Name: B.SC. oF Computer Information System

Academic System: Semester System
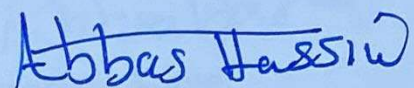
Description Preparation Date: 1-9-2024

File Completion Date:

Signature: _(signature)_

Head of Department Name:

· **Prof. Dr. Haider M.Al-Mashhadi**

Date: 28-9-2025

Signature: _(signature)_

Scientific Associate Name:

Prof. Dr. Abbas H.Al-Asaadi

Date: 28-9-2025

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature: _(signature and stamps)_

Approval of the Dean

Course Description Form

1. Course Name:
Data Mining & Warehouse

2. Course Code:

3. Semester / Year:
2/4

4. Description Preparation Date:

5. Available Attendance Forms:

6. Number of Credit Hours (Total) / Number of Units (Total)
64/3

7. Course administrator's name (mention all, if more than one name)
Name:Noor Saad Fahad Email: noor.alfahad@uobasrah.edu.iq

8. Email: Course Objectives

Course Objectives	• Learn about Data Warehouse • Learn about the ETL • Learn how to analysis data • Learn about data mining • Learn how to find patterns in data • Evaluate the results for decision making

9. Teaching and Learning Strategies

Strategy	Explain the concepts of data warehouse and data mining in full details through theoretical lectures, so the students can understand and acquire the ability to understand data, analysis data, find the trends and patterns. The theoretical knowledge will be applied in the laboratory corresponds to each lecture.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1	2	Learn about the basic concepts	Introduction to data warehouse	Theoretical & Laboratory	Discussion
2	2	Understand the infrastructure of DW	DW implementation	Theoretical & Laboratory	Discussion
3	2	Understand the process of DW	ETL-1	Theoretical & Laboratory	Discussion and questions
4	2	Understand the process of DW	ETL-	Theoretical & Laboratory	Discussion and questions
5	2		First Exam		
6	2	Learn about the analysis of the data	OLAP-1	Theoretical & Laboratory	Discussion and questions
7	2	Learn about the analysis of the data	OLAP-2	Theoretical & Laboratory	Discussion and questions
8	2	Learn about DM	Introduction to DM	Theoretical & Laboratory	Discussion

9	2	Understand the preprocess of DM	DM preprocessing	Theoretical & Laboratory	Discussion
10	2	Understand the different operations of DM	Decision tree and naïve bayes	Theoretical & Laboratory	Discussion and questions
11	2		Second Exam		
12	2	Understand the different operations of DM	Neural Network	Theoretical & Laboratory	Discussion and questions
13	2	Understand the different operations of DM	Association	Theoretical & Laboratory	Discussion and questions
14	2	Understand the different operations of DM	Clustering	Theoretical & Laboratory	Discussion and questions
15			Preparing for the final exam		

11. Course Evaluation
Exams, discussions

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	The Data Warehouse ETL Toolkit Practical Techniques for Extracting, Cleaning, Conforming, and Delivering Data. - 2. The Data Warehouse Toolkit: The Definitive Guide to Dimensional Modeling, Third Edition Data Mining, Edition 4 Concepts and Techniques By Jiawei Han, Jian Pei and Hanghang Tong, 2022
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

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Academic Program Description Form

University Name: University of Basra

Faculty/Institute: Collage of Computer Science and Information System

Scientific Department: Computer Information System

Academic or Professional Program Name: E-Technology

Final Certificate Name: B.SC. oF Computer Information System

Academic System: Semester System

Description Preparation Date: 1-9-2024

File Completion Date:

Signature:

Head of Department Name:

· Prof. Dr. Haider M.Al-Mashhadi

Date: 28-9-2025

Signature:

Scientific Associate Name:

Prof. Dr. Abbas H.Al-Asaadi

Date: 28-9-2025

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature:

Approval of the Dean

5

Course Description Form

1. Course Name: El ectronic Technology

2. Course Code: E- Technology

3. Semester / Year: 2024-2025 / First Course

4. Description Preparation Date: 1/9/2025

5. Available Attendance Forms: Inside Classroom

6. Number of Credit Hours (Total) / Number of Units (Total) 3 units /45 hours

7. Course administrator's name (mention all, if more than one name)
Name: Zainab Ibraheem Othman Email: Zianab.othman@uobasrah.edu.iq
8. Email: Course Objectives

Course Objectives	The purpose of this course is to provide student with basic information about recent concepts technology . give the students skills in recent virtual application , that consider new tools in organization and management now.

9. Teaching and Learning Strategies

Strategy	Groups of many planes and ways that contribute in the learning processing like projects , seminars and lectures … etc.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3		E- Management	lecturer	

2	3		Functions and components of e-management	Lecturer	
3	3		Electronic systems for e-management	Lecturer	
4			Design and implementation	Lecturer	
5					Exam1
6			e-governance definition and benefits	Seminar	
7			Types of e-governance , advantage & disadvantage	Seminar	
8			Stages of e-governance	Seminar	
9					Exam2

			Communication and challenges in e-governance		
10			e-journalism essentials of e-journalism		
11			Important facts about e-journalism		
12			e-shopping what is online shopping types of e-shopping		
13					Exam3
14			e-learning why develop e-learning e-learning approaches		
15			Healthcare systems		

11. Course Evaluation 100 marks as following

75 exam , 15 Absorbe , 5 Attending , 5 communion

3

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	- American government a brief introduction , by Theodore J.Lowi ,2019,w.w.norton &company new york ,London. - Introduction to E-commerce , by Zheng Qin ,Springer , 2009 ,Tsinghua university press . - E- learning methodologies A guide for designing and developing e-learning courses ,2011, rome - Different papers that related with these topics.
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

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Academic Program Description Form

University Name: University of Basra

Faculty/Institute: Collage of Computer Science and Information System

Scientific Department: Computer Information System

Academic or Professional Program Name: *Geographic information System* (handwritten)

Final Certificate Name: B.SC. oF Computer Information System

Academic System: Semester System

Description Preparation Date: 1-9-2024

File Completion Date:

Signature: *(signature)*

Head of Department Name:

Prof. Dr. Haider M.Al-Mashhadi

Date: 28-9-2025

Signature: *(signature)*

Scientific Associate Name:

Prof. Dr. Abbas H.Al-Asaadi

Date: 28-9-2025

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: *(handwritten)*

Signature: *(signature/stamp)*

Approval of the Dean

5

Course description template

Geographic Information Systems

This course description provides a concise overview of the key characteristics of the course and the expected learning outcomes, demonstrating how students can make the most of the available learning opportunities. It must also be linked to the program description.

1. Educational institution	University of Basra / College of Computer Science and Information Technology
2. Academic department/center	Computer Information Systems
3. Course name	Geographic Information Systems
4. Available attendance formats	Lectures divided into groups for students
5. Semester/Year	First Semester / Fourth Year
6. Total number of course hours	3 hours (including semester exams)
7. Date this description was prepared	October 29, 2024

8. Course Objectives

Learn the concept of GIS and other related concepts.
Explore GIS applications and how they are used.
Learn how to collect and analyze spatial data.
Design and integrate databases with GIS systems.
Learn statistical analysis techniques for spatial data.
6. Total course hours

9. Course outcomes, teaching and learning methods, and assessment

A- Cognitive Objectives:

1. Learn the concept of Geographic Information Systems (GIS).

2. Learn applications such as ArcGIS that are used for GIS.

3. Learn statistical analysis techniques.

4. Integrate some applications with the ArcGIS Desktop software package.

B- Skills-Based Objectives of the Course:

1. Ability to design and program GIS applications.

2. Ability to work effectively in a team, understanding assigned tasks and completing them within the given timeframe.

Teaching and Learning Methods

1. Delivering lectures and presenting topics using a data projector.
2. Facilitating discussion by asking questions, encouraging dialogue, and engaging students.
3. Assigning students to develop software programs that meet industry requirements.
4. Assigning students to prepare short reports on specific topics.
5. Assigning students to develop initial project proposals and create basic application designs.
6. Assigning students to present optional lectures on topics related to application design.

Assessment Methods

1. Weekly lab quizzes and monthly theoretical exams.
2. Practical projects and websites designed using content management systems and Bootstrap.

C- Affective and Value-Based Objectives
1. Understanding professional ethics and maintaining high standards of professionalism.
2. Fostering a spirit of cooperation and teamwork.
3. Encouraging creativity and developing competitive skills among students.

Teaching and Learning Methods

Our mission is to provide high-quality educational and research services that meet both local and international standards in the fields of computer science and information technology, enabling us to produce highly qualified and competitive graduates, while also undertaking high-level projects and reports and actively contributing to community service.

Assessment Methods

9. Course Outcomes, Teaching and Learning Methods, and Assessment

A- Learning Objectives

1. Understand the concept of Geographic Information Systems (GIS).

2. Learn to use GIS software applications such as ArcGIS.

3. Learn statistical analysis techniques.

4. Integrate selected applications with the ArcGIS Desktop software package.

		.10 The course syllabus			
Assessment method	Teaching method	اسم الوحدة / أو الموضوع	Required learning outcomes:	Ocloc"k	Week
Theory exam	Lecture using a data projector	Introduction: why does GIS matter? Data, information, evidence, knowledge, wisdom	An overview of the GIS concept and related terminology	2	1
Theory exam	Lecture using a data projector	Science, geography, and applications Representative application areas and their foundations	GIS applications and their representation	4	3-2
Theory exam	Lecture using a data projector	Spatial data properties and structure	Spatial data, its characteristics, and methods of organization	6	6-4
Theory exam	Lecture using a data projector	Spatial data management, geodatabase basics	Spatial data management	4	8-6
Theory exam	The lecture will use a data projector	Vector based spatial analysis	Spatial data analysis	4	10-9
Theory exam	The lecture will use a data projector	Spatial statistics and geo-statistics	Statistical methods for spatial and geographic data	4	13-11
Theory exam	The lecture will use a data projector	collection and data quality	Data collection and cleaning	4	15-14

11. Infrastructure	
1. Required textbooks	

. 12Course development plan

This plan involves students participating in preparing and presenting seminars on the theoretical material, and discussing the topics during each lecture, with the aim of simplifying the content and enhancing students' understanding and knowledge.

2. Main references (sources)	Paul A. Longley, Michael F. Goodchild, David J. Maguire, David W. Rhind-Geographic Information Systems and Science-Wiley (2005)ز
a. Recommended books and publications (scientific journals, reports, etc.)	Michael J. de Smith, Michael F. Goodchild, Paul A. Longley. 2015. *Geospatial Analysis: A Comprehensive Guide to Principles, Techniques and Software Tools* (http://www.spatialanalysisonline.com/). This book is a compressive, in-depth handbook of GIS analytical tools and methods.
b. Online resources, websites, etc.	

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Faculty/Institute: Collage of Computer Science and Information System

Scientific Department: Computer Information System

Academic or Professional Program Name: *Information Systems Security*

Final Certificate Name: B.SC. oF Computer Information System

Academic System: Semester System
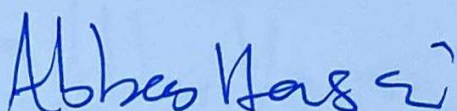
Description Preparation Date: 1-9-2024

File Completion Date:

Signature:

Head of Department Name:

· Prof. Dr. Haider M.Al-Mashhadi

Date: 28-9-2025

Signature:

Scientific Associate Name:

Prof. Dr. Abbas H.Al-Asaadi

Date: 28-9-2025

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature:

Approval of the Dean

5

Course Description Form

1. Course Name: Information Systems Security
2. Course Code: N/A
3. Semester / Year: second semester/ 2025/2026
4. Description Preparation Date: 19/ 9/ 2025
5. Available Attendance Forms: In- Person (Theoretical lectures)
6. Number of Credit Hours (Total) / Number of Units (Total): 3 hours per week
7. Course administrator's name (mention all, if more than one name)
Name: Asst. Prof. Dr. Huda Abdulraheem Ahmed Email: huda.ahmed@uobasrah.edu.iq
8. Email: Course Objectives

Course Objectives	- Understand the fundamentals of information security - Identify and analyze security threats and vulnerabilities - Apply security mechanisms and controls - Design and implement secure information system solutions - Evaluate security policies, standards, and risk management approaches - Secure emerging technologies and environments - Develop professional and ethical responsibility in cybersecurity practice

9. Teaching and Learning Strategies	
Strategy	The strategy focuses on both theoretical and practical aspects. Lectures & Discussions – Deliver theoretical concepts (CIA triad, cryptography, threats, policies) supported with interactive class discussions.
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Students understand the Introduction to Information Security	Definition & importance of Information Security	Theoretical Lecture and demonstration	Simple daily quizzes
2	3	Students understand Security Policies, Standards & Governance	Security policies, procedures, and guidelines International standards (ISO/IEC 27001, NIST, COBIT)	Theoretical Lecture and presentation	
3	3	Students understand Cryptography Basics	History & role of cryptography, Symmetric vs. asymmetric encryption, Hash functions & digital signatures, Applications in securing communications	Theoretical Lecture and presentation	
4	3	Understand Network Security Fundamentals	Firewalls, IDS, IPS; VPNs & secure tunneling; Wireless security (WEP, WPA, WPA2, WPA3); Common network attacks (DoS, spoofing, sniffing)	Theoretical Lecture and presentation	
5	3	First midterm exam		First midterm exam	Simple daily quizzes
6	3	Understand the Authentication, Access Control & Identity Management	Authentication methods (passwords, biometrics, multi-factor); Authorization vs. authentication;	Theoretical Lecture and presentation	

			Role-based access control (RBAC) & discretionary access control; Identity and access management (IAM)		
7	3	Understand Operating System & Application Security	OS vulnerabilities (Windows, Linux, macOS); Patch management and hardening; Secure coding practices; Application-level threats (SQL injection, XSS, buffer overflow)	Theoretical Lecture and presentation	
8	3	Understand Malware & Cyber Threats	Types of malwares (viruses, worms, ransomware, trojans, spyware); Attack vectors & life cycle of malware; Botnets and Advanced Persistent Threats (APT); Antivirus and endpoint protection strategies	Theoretical Lecture and presentation	
9	3	Understand Security in Cloud Computing	Cloud service models (IaaS, PaaS, SaaS);Cloud security risks (data breaches, insider threats); Shared responsibility model; Security tools for cloud environments	Theoretical Lecture and presentation	
10	3	Second Midterm Exam		Midterm Exam	

11	3	Understand Security in Databases & Storage Systems	Database threats (SQL injection, privilege escalation)	Theoretical Lecture and presentation	
12	3	Understand Cybersecurity in Emerging Technologies	IoT security challenges; Mobile device security; Blockchain and distributed ledgers in security; AI in cybersecurity (threat detection, intrusion prevention)	Theoretical Lecture and presentation	
13	3	Understand Incident Response & Forensics	Incident response life cycle; Computer forensics basics; Evidence collection & chain of custody; Cybersecurity tools (SIEM, logging, monitoring)	Theoretical Lecture and presentation	
14	3	Understand Ethical, Legal & Professional Issues	Cyber laws and regulations (international and local); Ethical hacking & penetration testing; Privacy concerns in digital systems; Security audits and certifications (CISSP, CEH, CISM)	Theoretical Lecture and presentation	
15	3	Future of Information	Emerging threats (quantum	Theoretical Lecture and presentation	

		Security & Final Review	computing, AI-driven attacks) Security trends (Zero Trust Architecture, SASE, DevSecOps) Final review & Q/A Course wrap-up		

11. Course Evaluation	
Theoretical Exams covering concepts and models. Class participation and discussions, Reports and Projects.	

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	William Stallings – Network Security Essentials: Applications and Standards (Pearson, 6th Edition, 2020) → Widely used for fundamentals of network and internet security.
Main references (sources)	CompTIA Security+ Guide to Network Security Fundamentals – by Mark Ciampa (Cengage, 7th Edition, 2021) → Beginner-friendly, good for foundational knowledge.
Recommended books and references (scientific journals, reports...)	Bruce Schneier – Applied Cryptography: Protocols, Algorithms, and Source Code in C (Wiley, 2nd Edition, 2015) → Standard reference on cryptographic methods.
Electronic References, Websites	CISSP Official (ISC)² Study Guide – by Mike Chapple & James Michael Stewart (Sybex, 9th Edition, 2021) → For professional certification, structured and practical.

Academic Program and Course Description Guide

2025

Introduction:

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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.

<u>Teaching and learning strategies:</u> 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 extracurricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: University of Basra

Faculty/Institute: Collage of Computer Science and Information System

Scientific Department: Computer Information System

Academic or Professional Program Name: *Mobile Application*

Final Certificate Name: B.SC. oF Computer Information System

Academic System: Semester System

Description Preparation Date: 1-9-2024

File Completion Date:

Signature:

Head of Department Name:

· Prof. Dr. Haider M.Al-Mashhadi

Date: 28-9-2025

Signature:

Scientific Associate Name:

Prof. Dr. Abbas H.Al-Asaadi

Date: 28-9-2025

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature:

Approval of the Dean

5

Course Description Form

1. Course Name: Mobile Applications
2. Course Code: CSIT0401
3. Semester / Year: First/ 2024-2025
4. Description Preparation Date: 19/9/2025
5. Available Attendance Forms: in class
6. Number of Credit Hours (Total) / Number of Units (Total) 4 hours/ 6 Units
7. Course administrator's name (mention all, if more than one name)
Name: Zainab Hameed Alfayez Email: zainab.meejeed@uobasrah.edu.iq
8. Email: Course Objectives

Course Objectives	After successfully completing this course, students will have gained comprehensive theoretical knowledge as well as practical skills related to the system development process of information systems. students who successfully complete the course should be able to: • gather data to analyse and specify the requirements of a system. • design system components and environments. • build general and detailed models that assist programmers in implementing a system. • design a database for storing data and a user interface for data input and output, as well as controls to protect the system and its data

9. Teaching and Learning Strategies	
Strategy	The module is delivered through a series of lectures. The lecture sessions discuss and explain to students the theoretical underpinnings of how software systems are analyzed and designed. Students also given a project to encourage them to work in teams and being a team player.
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	What is mobile apps, mobile apps paradigms	Introduction	Presentation	In class activity
2	2	Different types of mobile platform: Android, IOS, windows…etc.	Mobile apps platforms	Presentation	Student classroom participation
3	2	Deep explanation of flutter framework	Mobile framework	Presentation	Student classroom participation
4	2	Demonstrate Widget Tree and Flutter Inspector	flutter widgets	Presentation	Student classroom participation
5	2	Text, TextField, , Button, Icons, Listview, Gridview and more	Visible Widgets	In class discussion	Quiz
6	2	Container, Row, Column, stack and more	Invisible Widgets	In class discussion	Homework: project
7	2	Understanding widgets lifecycle, pressing, tapping	Flutter interaction	In class discussion	Quiz
8	2	Transfer between pages in Flutter	Navigation and routing	In class discussion	Homework: project
9	2	Local Database in Flutter	Saving persisting data-1	presentation	Quiz
10	2	Cloud database in Flutter	Saving persisting data-2	presentation	Student classroom participation
11	2	mobile user interface challenges and principles	Design	presentation	Student classroom participation
12	2	camera, audio player and videos	Mobile internal service	presentation	Student classroom participation
13	2	Understanding sensors	Mobile internal service	In class discussion	Homework
14	2	include maps into the app	Google Maps in Flutter	presentation	Student classroom participation

15	2	Show user current Location on the app	Locations	presentation	Student classroom participation

11. Course Evaluation

Assessment is divided into four elements. First there are a number of quizzes that assess the student's competency in specific topics on a weekly basis.
there is a midterm class test. There is then two a take home assignment. Finally, there is a lab project that tests the learners understanding of the theoretical and lab material.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	None
Main references (sources)	Bailey T., Biessek A., and Wills T, Flutter for Beginners: An introductory guide to building cross-platform mobile applications with Flutter 2.5 and Dart, 2nd Edition, Packt Publishing, 2021, ISBN-10 : 1800565992, ISBN-13 : 978-1800565999
Recommended books and references (scientific journals, reports...)	Tyagi P., Pragmatic Flutter Building Cross-Platform Mobile Apps for Android, iOS, Web & Desktop, 1st Edition, CRC Press, 2021, ISBN: 9781000427103
Electronic References, Websites	https://docs.flutter.dev/ https://www.tutorialspoint.com/flutter/index.htm https://www.udemy.com/course/mobile-app-development-with-flutter/

Academic Program and Course Description Guide

2025

Introduction:

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Academic Program Description Form

University Name: University of Basra

Faculty/Institute: Collage of Computer Science and Information System

Scientific Department: Computer Information System

Academic or Professional Program Name: *Network Protocols and E-Commerce*

Final Certificate Name: B.SC. oF Computer Information System

Academic System: Semester System

Description Preparation Date: 1-9-2024

File Completion Date:

Signature:

Head of Department Name:

Prof. Dr. Haider M.Al-Mashhadi

Date: 25-9-2025

Signature:

Scientific Associate Name:

Prof. Dr. Abbas H.Al-Asaadi

Date: 28-9-2025

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature:

Approval of the Dean

5

Course Description: Network Protocols and E-Commerce

1. **Course Name:**	
Network Protocols and E-Commerce	
2. **Course Code**	
3. **Semester / Year**	
First/2024-2025	
4. **Description Preparation Date**	
1/9/2024	
5. **Available Attendance Forms**	
Regular attendance	
6. **Number of Credit Hours (Total) / Number of Units (Total)**	
4 hours/3 units	
7. **Course administrator's name (mention all, if more than one name)**	
Name: Dr. Muslim Mohsin Khudhair **Email:** muslim.khudhair@uobasrah.edu.iq	
8. **Course Objectives**	

Course Objectives	A- Cognitive Objectives
	    1- Learn about e-commerce and how it works.
	    2- Learn about network protocols.
	    3- Communicate with the beneficiary and be able to identify the objectives and reasons for advertising and e-commerce.
	    4- Be able to build an e-commerce business correctly.
	
	B- Course Skill Objectives
	    1- The ability to manage and administer e-business.
	    2- Work within a team, understand assigned tasks, and complete them within a specified timeframe.
	    3- Be able to understand how e-commerce works and the risks associated with it.

9. **Teaching and Learning strategies**	
Strategy	1. Deliver lectures and present the topic using a data show. 2. Discuss by asking questions, opening the door to dialogue, and interacting with students.

| | | | 3. Assign students to design and conduct studies on the labour market and link it to e-commerce, in line with labour market requirements.
4. Assign students to prepare brief reports on selected topics.
5. Assign students to prepare preliminary projects for building e-commerce websites.
6. Assign students to conduct optional lectures on topics related to networks, communications, and e-commerce. |

10. Course Structure

Week	Hours	Required Outcomes	Unit or Subject Name	Learning Method	Evaluation Learning
1-2	6	Theoretical	Introduction to electronic commerce	Lecture using data show	Questions and Discussion
3-4	6	Theoretical	Business Models for e-commerce	Lecture using data show	Questions and Discussion
5	3	Theoretical	Electronic Marketing vs. traditional marketing	Lecture - Explanation	Laboratory and Theoretical Exam
6-7	6	Theoretical	Enabling technologies of the World Wide Web	Lecture using data show	Theoretical Exam
8	3	Theoretical	Electronic security	Lecture - Explanation	Questions and Discussion
9-11	6	Theoretical	Electronic payment systems	Lecture - Explanation	Questions and Discussion
12-13	6	Theoretical	E-payment security issues	Lecture - Explanation	Laboratory and Theoretical Exam
14-15	6	Theoretical	• Mobile Commerce • .Customer effective web design. • Legal and ethical issues in e-business.	Lecture - Explanation	Discussion, questions, and technical solutions to some e-commerce problems

11. Course Evaluation

1. Weekly laboratory and monthly theoretical tests.
2. Practical projects and e-commerce websites using web development languages.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Rana Tassabehji - Applying E-Commerce in Business-Sage Publications Ltd

	(Advanced Studies in E-Commerce) - E-Commerce Concepts, Principles, and Application-Springer
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

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

2025

Introduction:

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Academic Program Description Form

University Name: University of Basra

Faculty/Institute: Collage of Computer Science and Information System

Scientific Department: Computer Information System

Academic or Professional Program Name: *Orginizational Behavior*

Final Certificate Name: B.SC. oF Computer Information System

Academic System: Semester System

Description Preparation Date: 1-9-2024

File Completion Date:

Signature: *(signature)*

Head of Department Name:

· Prof. Dr. Haider M.Al-Mashhadi

Date: 28-9-2025

Signature: *(signature)*

Scientific Associate Name:

Prof. Dr. Abbas H.Al-Asaadi

Date: 28-9-2025

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature: *(signature and stamps)*

Approval of the Dean

5

1. Course Name: organizational behavior
2. Course Code:
3. Semester / Year: Second semester/fourth stage
4. Description Preparation Date:
5. Available Attendance Forms:
6. Number of Credit Hours (Total) / Number of Units (Total)
7. Course administrator's name (mention all, if more than one name)
Name: Reem qasim reem.qasim@uobasrah.edu.iq :Email
8. Email: Course Objectives

Course Objectives	1- Teach students what organizational behavior is. 2- Learn how to deal with people's feelings and emotions through psychological analysis of their behavior. 3- Learn how to develop self-esteem, personal skills, and how to influence.

9. Teaching and Learning Strategies	
Strategy	The strategy that will be followed in presenting a topic will be in a positive way and will be delivered through stories, realistic examples and sequential events, with the aim of helping students break out of stereotypical and traditional thinking and move towards presenting fruitful creative ideas.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Knowing what organizational behavior is and the reasons for studying this field	Introduction to the Field of Organizational Behavior	Lecture using data show	discussion
3+2	4	A statement of the behaviors of individuals, what directs these behaviors, and the values of influence	Individual Behavior, Personality, and Values	Lecture using data show	discussion

5+4	4	What is perception, the levels that an individual can reach, and the methods of learning in organizations?	Perception and Learning in Organizations	Lecture using data show	discussion
6+7	4	Knowing emotions, their types, and how to behave in situations , Stress in the workplace	Emotions and attitudes, Stress in the workplace	Lecture using data show	discussion
8	2	Exam			
9	2	Ways to motivate employees and focus on the most effective ones	Foundations of Employee Motivation	Lecture using data show	discussion
10+11	4	Factors influencing decisions and knowing what creativity is and what encourages it	Decision Making and Creativity	Lecture using data show	discussion
12	2	Exam			
13	2	Work teams and the impact of their formation on the organization	Team Dynamics	Lecture using data show	discussion
14	2	Knowing the elements of power and the impact that can accompany power	Power and Influence in the Workplace	Lecture using data show	discussion
15	2	Organizational culture and its impact on the organization's progress	Organizational Culture	Lecture using data show	discussion

11. Course Evaluation

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Mcshane, Glinow, 2010, Organizational Behavior, Emergi Knowledge And Practice For The Real World —5th
Recommended books and references (scientific journals, reports...)	Stephen P. Robbins and Timothy A. Judge Essentials of Organizational Behavior. 15th ed. Pearson Education. 2014.

Academic Program and Course Description Guide

2025

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Academic Program Description Form

University Name: University of Basra

Faculty/Institute: Collage of Computer Science and Information System

Scientific Department: Computer Information System

Academic or Professional Program Name: Software Quality Assurance

Final Certificate Name: B.SC. oF Computer Information System

Academic System: Semester System

Description Preparation Date: 1-9-2024

File Completion Date:

Signature:

Head of Department Name:

· Prof. Dr. Haider M.Al-Mashhadi

Date: 28-9-2025

Signature:

Scientific Associate Name:

Prof. Dr. Abbas H.Al-Asaadi

Date: 28-9-2025

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature:

Approval of the Dean

5

Course Description Form

1. Course Name: Software Quality Assurance

2. Course Code:

3. Semester / Year: four year - second Semester

4. Description Preparation Date: 18/09/2025

5. Available Attendance Forms: Face-to-Face (In-class / On-campus)

6. Number of Credit Hours (Total) / Number of Units (Total)   3 Hours

7. Course administrator's name (mention all, if more than one name)
Name: Dr.Maysaa A.Naser Email: maysaa.naser@uobasrah.edu.iq

8. Email: Course Objectives

Course Objectives	• To provide students with knowledge required for software quality assurance. • To train them in software testing and documentation. • To enable them to apply software quality assurance tools and techniques.

9. Teaching and Learning Strategies

Strategy	• Theoretical lectures. • Case studies and group projects. • Problem-based learning activities

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

Week	Hours	Required Learning Outcomes	Unit or Subject Name	Learning Method	Evaluation Method
1–2	4	Understand basic concepts and importance of software quality assurance.	Introduction to SQA	Lecture + Discussion	Quiz
3–4	4	Identify international software quality standards (ISO, CMMI) and their applications.	Software Quality Standards	Lecture + Case Study	Assignment
5–6	4	Explain verification and validation processes and apply them in practice.	Verification & Validation	Lecture + Discussion	First Exam
7–8	4	Apply different software testing techniques and document test cases.	Software Testing Techniques	Lecture	Report
9–10	4	Use automated tools for software testing and analyze results.	Automated Testing Tools	Lecture + Discussion	Short Exam
11–12	4	Understand quality management activities within the software development life cycle	Quality Management	Lecture + Discussion	Presentation
13–14	4	Integrate knowledge and skills to evaluate software quality; prepare for final assessment.	Review and Integration	Lecture + Discussion	Final exam

11. Course Evaluation

- **Quizzes:** 5% (to assess understanding of basic concepts).
- **Assignments / Reports:** 10% (covering case studies and practical exercises).
- **first Exam:** 15% (theoretical)
- **Class Participation & Activities:** 5% (discussions, teamwork).
- **Final Exam:** 15% (comprehensive assessment of all course outcomes).

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Daniel Galin, Software Quality Assurance: From Theory to Implementation, Pearson, 2018.

	Jeff Tian, Software Quality Engineering: Testing, Quality Assurance, and Quantifiable Improvement, Wiley, 2005.
Main references (sources)	Ian Sommerville, Software Engineering, 10th Edition, Pearson, 2016. Roger S. Pressman and Bruce Maxim, Software Engineering: A Practitioner's Approach, 9th Edition, McGraw-Hill, 2019
Recommended books and references (scientific journals, reports...)	• Capers Jones, *Applied Software Measurement: Global Analysis of Productivity and Quality,* McGraw-Hill, 2008. • IEEE Software Quality Standards Documentation. • ACM Digital Library articles on Software Quality Assurance
Electronic References, Websites	• EEE Xplore Digital Library (https://ieeexplore.ieee.org) • ACM Digital Library (https://dl.acm.org) • Software Testing Help (https://www.softwaretestinghelp.com) • ISTQB Resources (https://www.istqb.org) https://nibmehub.com/opac-service/pdf/read/Software%20Quality%20Assurance%20From%20Theory%20to%20Implementation.pdf