



Republic of Iraq
Ministry of Higher Education and Scientific Research
Al-Farabi University
College of Administration and Economics
Department of Industrial Management

Academic Program Description

Department of Industrial Management

Academic Year 2025 – 2026

Iraq – Baghdad – Al-Masafi Street
alfarabiuc.edu.iq

Academic Program Description

University Name: Al-Farabi University

Faculty: College of Administration and Economics

Department: Industrial Management

Program Name: Bachelor of Industrial Management

Certification Title: Bachelor of Industrial Management

Study System: Bologna Process

Date of Description Preparation: October 1, 2025

Date of File Completion: June 1, 2026

Signature:



**Scientific Assistant: Prof. Dr.
Hanaa Abdel Ghaffar Hammoud**

Date:

Signature:



**Acting Head of Department: Prof. Dr.
Awad Fadel Ismail**

Date:

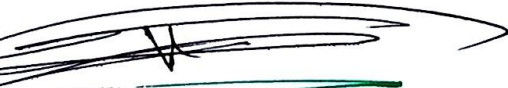
The file was reviewed by the University Quality Assurance and Performance Division

Name of the Director of the University Quality Assurance and Performance Division :

Prof. Dr. Hanaa Abdel Ghaffar Hammoud

Date:

Signature:



Approval by the Dean of the Faculty of Management and Economics

Dr. Awad Fadel Ismail

جامعة الفارابي
كلية الإدارة والاقتصاد
٢٠٢٥ / ١٠ / ١

1. Program Vision

The Department offers a high-quality educational program in Industrial Management that conforms to recognized academic, research, and professional standards at the local and regional levels, while working to advance local industrial institutions so that they keep pace with regional and global developments.

2. Program Mission

The Department's mission is to provide industrial institutions with qualified human competencies capable of handling new industrial technologies and methods in order to raise the performance of these institutions, in addition to delivering the scientific, research, and advisory services that institutions require in a manner that contributes to and serves the national economy.

3. Program Objectives

- Prepare specialized scientific cadres in industrial-administrative work to serve in state institutions and in public and private companies.
- Disseminate a sound local industrial culture in the governorate by holding courses and scientific activities for various segments of society, and by preparing specialized scientific studies in the field of Industrial Management.
- Build a scientific and human base to support the Industrial Management sector, which is the principal engine for achieving the desired industrial development.
- Provide those responsible for the Industrial Management sector with specialized consultancy to raise work efficiency within the industrial market and factories by developing solutions to the problems faced by industrial-management institutions in the governorate.
- Develop the Department's scientific capacities and capabilities in line with its mission and objectives in the field of Industrial Management and with ongoing scientific progress in the area of specialization.

4. Program Accreditation

Newly Established Department / First Academic Year Only.

5. Other External Influences

Is there a sponsoring institution for the program? — A twinning partnership with the Department of Industrial Management, College of Administration and Economics, University of Baghdad.

6. Program Structure

Program Structure	No. of Courses	Credit Units	Percentage	Notes
Institution Requirements	3	6	8%	Core
College Requirements	2	4	23%	Core
Department Requirements	12	72	69%	Core
Summer Training	Meets the Requirements.			
Other				

Note: Credit units and percentages above were recomputed for internal consistency (see the Corrections & Notes page). Percentages are rounded and sum to 100%.

7. Program Description — Year One

Year / Level	Course Code	Course Name	Credit Hours	
			Theory	Practical
First Year / Sem. 1	IM1101	Mathematics	4	1
First Year / Sem. 1	IM1102	Engineering Drawing	1	—
First Year / Sem. 1	IM1103	Principles of Management	4	—
First Year / Sem. 1	IM1104	Principles of Economics	3	—
First Year / Sem. 1	UN115	Democracy and Human Rights	2	—
First Year / Sem. 1	UN116	Arabic Language	2	—
First Year / Sem. 2	IM1201	Environmental Management and Industrial Pollution	3	1
First Year / Sem. 2	IM1202	Laboratories and Workshops	3	—
First Year / Sem. 2	IM1203	Principles of Statistics	4	—
First Year / Sem. 2	IM1204	Principles of Accounting	3	—
First Year / Sem. 2	UN125	Fundamentals of Computer Science	1	—
First Year / Sem. 2	UN126	English Language	2	—

8. Expected Program Learning Outcomes

Knowledge

- A1. Graduate a cohort knowledgeable in the fields of specialization, able to understand the industrial work environment and its associated challenges.
- A2. Prepare specialized professional cadres with a high level of knowledge and experience in areas such as production planning, operations management, quality management, human-resource management, and supply chains, enabling them to become successful business managers in their future roles.
- A3. Provide high-quality academic programs aligned with scientific and technological development at the local, regional, and global levels.
- A4. Participate effectively in developing these technologies and in continuous improvement across the various stages of study.

Skills

- B1. Equip the graduate with the skills necessary to manage establishments in various governmental and private institutions.
- B2. Enable the graduate to communicate effectively, work within a team, manage time, and engage in continuous self-learning, thereby enhancing professional competence in different work environments.
- B3. Acquaint the graduate with the details relevant to their precise specialization and its connection to other disciplines.
- B4. Motivate the graduate toward initiative and innovation in areas related to the main specialization.

Values

- C1. Strengthen commitment to the rules of professional conduct and professional ethics.
- C2. Comply with the requirements and conditions necessary for the practice of professional and academic work.

9. Teaching and Learning Strategies

- Active-learning strategy.
- Brainstorming strategy.
- Team-based learning strategy.
- Discussion strategy.

10. Assessment Methods

- Written examinations and oral and practical tests.
- Preparation of scientific research in the field of specialization.

11. Teaching Staff

Academic Rank & Name	Specialization	Special Skills	Appointment
Asst. Lecturer Ahmed Fadhil Madhi	Business Administration	—	Permanent
Asst. Lecturer Rahma Ghassan Ibrahim	Structural Engineering	—	Visiting Lecturer
Asst. Lecturer Issa Ayyal Salih	Hotel Management	—	Permanent
Prof. Dr. Hussein Muhaisin	Arabic Language	—	Visiting Lecturer
Asst. Lecturer Hala Gharib Muhaisin	Business Administration	—	Permanent
Asst. Lecturer Bilal Abdulrazzaq Abdulaziz	Finance and Banking	—	Permanent
Asst. Lecturer Hasan Ali Kadhim	Finance and Banking	—	Permanent
Asst. Lecturer Ahmed Hamid Hammadi	English Language	—	Visiting Lecturer
Asst. Prof. Dr. Sinan Hatif	Computer Science	—	Visiting Lecturer
Prof. Dr. Muhammad Hassan Rashm	Economics	—	Academic Staff

Appointment: "Permanent" = member of the Department's established staff; "Visiting Lecturer" = lecturer engaged for teaching.

Professional Development

Orientation of new faculty members

- Continue pedagogical training and qualification by enrolling in courses and workshops that develop teaching, assessment, and the use of modern technologies in the educational process.
- Strengthen research and scientific capabilities by producing rigorous research, publishing in scientific journals, and participating in specialized conferences and seminars.
- Continuously develop teaching performance through self-evaluation, drawing on colleagues' experience, and

improving methods of communication and interaction with students.

This process aims to achieve the rapid and effective integration of new faculty members into the academic and administrative work environment, ensuring the quality of teaching, research, and continuous professional development.

Professional development of faculty members

- Developing modern teaching skills — using active learning and e-learning, improving classroom management, motivating student participation, and linking clear study plans to learning outcomes.
- Enhancing scientific research and academic publishing — conducting rigorous research, publishing in peer-reviewed local and international journals, and participating in conferences and seminars.
- Continuous development of personal and professional skills — attending courses and workshops, developing communication and teamwork skills, and keeping abreast of the latest trends in the discipline.

Admission Criterion

The conditions and regulations governing the admission of students to private universities and colleges.

Key Sources of Information about the Program

- Records kept in the Department.
- The curriculum approved by the Ministry of Higher Education and Scientific Research.
- Recommendations of the quality and academic-performance committees.
- The official website of Al-Farabi University.

Program Development Plan

The plan includes reviewing learning outcomes and updating the study plan in line with academic standards and the labor market; developing teaching and assessment methods; strengthening scientific research and community service; and raising the competence of faculty members. It also includes activating the quality-assurance system and preparing the documents and reports required to obtain academic accreditation.

Program Skills Map

Required program learning outcomes mapped to first-year modules. (• indicates that the module contributes to the outcome.)

Code	Module	Type	Knowledge				Skills				Values			
			A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
IM1101	Mathematics	Basic	✓				✓				✓			
IM1102	Engineering Drawing	Basic	✓				✓				✓			
IM1103	Principles of Management	Basic	✓				✓				✓			
IM1104	Principles of Economics	Basic	✓					✓			✓			
UN115	Democracy and Human Rights	Basic		✓			✓				✓			
UN116	Arabic Language	Basic		✓				✓			✓			
IM1201	Environmental Management & Industrial Pollution	Basic		✓			✓				✓			
IM1202	Laboratories and Workshops	Basic	✓				✓					✓		
IM1203	Principles of Statistics	Basic	✓				✓				✓			
IM1204	Principles	Basic	✓				✓				✓			

	of Accou nting													
UN12 5	Funda menta ls of Comp uter Scienc e	Basic												
UN12 6	Englis h Langu age	Basic												

Module Description Forms

The following pages contain the detailed description of each module in the first year of the program.

Module 1: Mathematics (IM1101)

Module Information			
Module Title	Mathematics	Module Delivery Theory ☒ Lecture ☒ Lab ☐ Tutorial ☒ Practical ☒ Seminar ☒	
Module Type	Basic		
Module Code	IM1101		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	1 (First Year)	Semester of Delivery	1
Administering Department	Industrial Management	College	Administration and Economics
Module Leader	Prof. Dr. Awadh Fadhil Ismail	e-mail	awadh.fadhil47@gmail.com
Module Leader's Acad. Title	Professor	Module Leader's Qualification	PhD
Module Tutor	Asst. Lecturer Ahmed Fadhil Madhi	e-mail	ahmad.fadil@alfarabiuc.edu.iq
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	1.0

Relation with Other Modules			
Prerequisite Module	None	Semester	—
Co-requisite Module	None	Semester	—

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	Introduce and train the student in the fundamental principles of mathematics, deepening understanding in preparation for more advanced stages of study.
Module Learning Outcomes	- Employ mathematical knowledge and its applications in practical real-life situations. - Build the student's mathematical knowledge through exploring and solving problems. - Use correct mathematical symbols and terminology. - Grasp the connection between mathematics and other disciplines.
Indicative Contents	- Sets: algebraic operations on sets. - Functions: definition, types, limits, and continuity. - Calculus: study of core mathematical concepts with selected applications. - Vectors and matrices: algebraic operations, addition and subtraction, multiplication, inverse, transpose, and the determinant.

Learning and Teaching Strategies	
Strategies	- Lectures presenting the fundamental concepts and required knowledge. - Interactive discussion sessions among students.

	• Case studies using mathematics to illustrate practical applications and stimulate thinking. • Continuous assessment, including daily tests.
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Student Workload (SWL) — calculated for 15 weeks			
Structured SWL (h/sem)	63	Structured SWL (h/w)	4.2
Unstructured SWL (h/sem)	87	Unstructured SWL (h/w)	5.8
Total SWL (h/sem)	150		

Module Evaluation				
Type	Assessment	Time/Number	Weight (Marks)	Week Due
Formative	Quizzes	2	20% (20)	3 – 10
Formative	Assignments	2	10% (10)	4 – 8
Formative	Projects / Lab	—	0% (0)	—
Formative	Report	1	10% (10)	11
Summative	Midterm Exam	1	10% (10)	13
Summative	Final Exam	1	50% (50)	16
Total Assessment			100% (100)	

Delivery Plan (Weekly Syllabus)	
Week	Material Covered
Week 1	Sets: definitions and basic concepts.
Week 2	Algebraic operations on sets.
Week 3	Algebraic operations on sets (continued).
Week 4	Functions and limits: definition of a function; types of functions.
Week 5	Limits and continuity.
Week 6	Limits and continuity (continued).
Week 7	Examination.
Week 8	Differentiation: the derivative and the rules of differentiation.
Week 9	Differentiation: applied exercises.
Week 10	Application of the derivative in the field of management.
Week 11	Curve analysis: increasing and decreasing functions.
Week 12	Extreme values, concavity and inflection points; applied exercises.
Week 13	Integration: basic integration formulas.
Week 14	Integration: basic integration formulas (continued).
Week 15	Vectors and matrices: algebraic operations, transpose, inverse, determinants; applied exercises.

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Principles of Mathematics for Management Students, Prof. Dr.	

	Dhafer Hussein Rashid, 2011.	
Recommended Texts	Schaum's Outline Series in Mathematics.	
Websites	Various course-related websites.	

Module 2: Democracy and Human Rights (UN115)

Module Information			
Module Title	Democracy and Human Rights	Module Delivery Theory ☒ Lecture ☒ Lab ☐ Tutorial ☐ Practical ☐ Seminar ☒	
Module Type	Basic		
Module Code	UN115		
ECTS Credits	2		
SWL (hr/sem)	30		
Module Level	1 (First Year)	Semester of Delivery	1
Administering Department	Industrial Management	College	Administration and Economics
Module Leader	Prof. Dr. Awadh Fadhil Ismail	e-mail	awadh.fadhil47@gmail.com
Module Leader's Acad. Title	Professor	Module Leader's Qualification	PhD
Module Tutor	Asst. Lecturer Bilal Abdulrazzaq Abdulaziz	e-mail	bilal.abdulrazzaq@alfarabiuc.edu.iq
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	1.0

Relation with Other Modules			
Prerequisite Module	None	Semester	—
Co-requisite Module	None	Semester	—

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	- Acquire knowledge of the nature of human rights. - Establish the foundations of rational democratic thinking. - Apply theory to practical reality in life. - Raise public awareness in order to achieve and guarantee human rights.
Module Learning Outcomes	- Acquire knowledge of the nature of democracy and human rights. - Understand the foundations of rational democratic thinking. - Apply theory to the practical realities of life. - Raise public awareness in order to achieve democracy and protect human rights.
Indicative Contents	Knowledge and understanding: broadening the understanding of democracy and human rights.

Learning and Teaching Strategies	
Strategies	- PowerPoint presentations. - Report writing. - In-class discussions.

Student Workload (SWL) — calculated for 15 weeks

Structured SWL (h/sem)	30	Structured SWL (h/w)	2.2
Unstructured SWL (h/sem)	17	Unstructured SWL (h/w)	1.1
Total SWL (h/sem)	50		

Module Evaluation				
Type	Assessment	Time/Number	Weight (Marks)	Week Due
Formative	Quizzes	2	10% (10)	3 – 10
Formative	Assignments	2	5% (5)	4 – 8
Formative	Seminar	1	5% (5)	11
Formative	Reports	1	10% (10)	12
Summative	Midterm Exam	1	20% (20)	13
Summative	Final Exam	1	50% (50)	16
Total Assessment			100% (100)	

Delivery Plan (Weekly Syllabus)	
Week	Material Covered
Week 1	The emergence of the state and its pillars; authority and its types; the legislative authority and the conditions of parliamentary membership.
Week 2	The bicameral system and the differences between the two chambers, with justifications for its adoption; the unicameral system and its justifications.
Week 3	The executive and judicial authorities; the definition and history of democracy; characteristics of the Islamic ruler.
Week 4	Direct democracy and representative democracy.
Week 5	Semi-direct democracy.
Week 6	Introduction to human rights: characteristics, objectives, and categories.
Week 7	Human rights in Mesopotamia and in Greek and Roman civilizations.
Week 8	Human rights in the Christian and Islamic religions.
Week 9	The Magna Carta, the Petition of Right, and the French Declaration.
Week 10	Historical overview of the recognition of human rights; the United Nations and its six organs.
Week 11	The 30 articles of the Universal Declaration; constitutional, judicial, political, and international guarantees of human rights.
Week 12	The specialized agencies supporting the United Nations.
Week 13	Examination.
Week 14	The four freedoms in the capitalist system: political, economic, intellectual, and personal freedom.
Week 15	The Western conception of political freedom; economic freedom in its capitalist sense; intellectual freedom.

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	1. Abdul-Karim Alwan, Political Systems and Constitutional Law, Dar Al-Thaqafa, 1st ed., Amman, 2010. 2. Riyadh Aziz Hadi, Human Rights: Development, Content, and	

	Protection, Al-Atak, Cairo, 2011. 3. Muhammad Baqir al-Sadr, The Islamic School: Contemporary Man and the Social Problem.	
Recommended Texts	1. Nu'man Ahmad al-Khatib, A Concise Account of Political Systems, Dar Al-Thaqafa, 2nd ed., Amman, 2011. 2. Sami Jamal al-Din, Political Systems and Constitutional Law, Dar Al-Ma'arif, Alexandria, 2005.	
Websites	—	

Module 3: Principles of Management (IM1103)

Module Information			
Module Title	Principles of Management	Module Delivery Theory ☒ Lecture ☒ Lab ☐ Tutorial ☐ Practical ☐ Seminar ☒	
Module Type	Core		
Module Code	IM1103		
ECTS Credits	8		
SWL (hr/sem)	200		
Module Level	UGI (First Year)	Semester of Delivery	1
Administering Department	Industrial Management	College	Administration and Economics
Module Leader	Prof. Dr. Awadh Fadhil Ismail	e-mail	awadh.fadhil47@gmail.com
Module Leader's Acad. Title	Professor	Module Leader's Qualification	PhD
Module Tutor	Asst. Lecturer Issa Ayyal Salih	e-mail	essaayaail158@gmail.com
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	1.0

Relation with Other Modules			
Prerequisite Module	None	Semester	—
Co-requisite Module	None	Semester	—

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	- Introduce students to the basic concepts and principles that underpin the understanding of management as both a science and a practice. - Enhance students' ability to make effective, well-considered decisions in the context of management and organization. - Stimulate critical and creative thinking in solving managerial problems and developing new strategies to achieve institutional goals.
Module Learning Outcomes	- Understand the basic concepts of management and the core terminology of planning, organizing, leading, and controlling. - Be familiar with the functions of management and how each is applied in different work environments. - Be familiar with the major management theories (classical, human relations, and modern) and the evolution of managerial thought. - Understand the internal and external work environment and the impact of organizational culture on performance. - Grasp the characteristics of effective leadership and the stages of the decision-making process.
Indicative Contents	- Commitment to work ethics — developing a deep understanding of professional ethics and applying it in daily managerial decisions, and promoting integrity and transparency. - Commitment to justice and equality — treating employees, colleagues, and clients fairly and without discrimination, and entrenching equality of opportunity within the work

	environment. • Respect and appreciation — respecting colleagues, clients, and stakeholders, and valuing individual and collective effort. • Teamwork — encouraging cooperation to achieve common goals and promoting mutual trust and respect among team members.
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Learning and Teaching Strategies	
Strategies	• Lectures delivered by the instructor to guide students and present the fundamental concepts and required knowledge. • Interactive group discussions that encourage the exchange of ideas and deepen students' understanding. • Case studies used to illustrate the practical application of theoretical concepts and to stimulate analytical thinking and decision-making. • Continuous assessment using a variety of tools to measure students' progress and understanding.

Student Workload (SWL) — calculated for 15 weeks			
Structured SWL (h/sem)	—	Structured SWL (h/w)	—
Unstructured SWL (h/sem)	—	Unstructured SWL (h/w)	—
Total SWL (h/sem)	200		

Module Evaluation				
Type	Assessment	Time/Number	Weight (Marks)	Week Due
Formative	Quizzes	2	10% (10)	3 – 10
Formative	Assignments	2	10% (10)	4 – 8
Formative	Projects / Lab	—	0% (0)	—
Formative	Report	1	10% (10)	11
Summative	Midterm Exam	1	20% (20)	13
Summative	Final Exam	1	50% (50)	16
Total Assessment			100% (100)	

Delivery Plan (Weekly Syllabus)	
Week	Material Covered
Week 1	Introduction to management and the functions of the organization: the concept of management and the manager; approaches to studying management; the challenges facing contemporary management.
Week 2	The manager's role and duties: the manager's tasks, skills, roles, and functions.
Week 3	The evolution of managerial thought: the classical school, scientific management, the administrative-division school, and the bureaucratic school.
Week 4	The human-relations school: the Hawthorne studies and Elton Mayo; Follett; Chester Barnard; McGregor's Theory X and Theory Y.
Week 5	The modern approach to management: the contemporary school, open-organization theory, quantitative management, and Japanese management.

Week 6	Management in a changing environment: the general and specific environments, their components, and the mutual impact between the organization and its environment.
Week 7	Investigating the organization's boundaries: environmental scanning, dynamic and stable environments, and adaptive management.
Week 8	Organizational objectives and managerial planning: purpose and mission, goals, types of objectives, and the requirements for setting them.
Week 9	Management by objectives (MBO): the basic steps and the advantages and disadvantages of the approach.
Week 10	Strategic planning: the concept of strategy, the factors in determining it, and the components of the establishment's strategy.
Week 11	The steps of strategic decision-making and the levels of strategy.
Week 12	Preparing operational plans: the nature of planning and the types of operational plans (activity-based and time-based).
Week 13	Types of plans by function: tactical, standing, and single-use plans.
Week 14	Organizing the planning function: planning premises, obstacles to planning and their treatment, and contingency planning.
Week 15	Midterm examination.

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Principles of Management with a Focus on Business Administration, Dr. Khalil Al-Shammaa, 2010.	
Recommended Texts	Iraqi academic journals.	
Websites	Research, periodicals, and information technology accessed online according to the course topics.	

Module 4: Principles of Accounting (IM1204)

Module Information			
Module Title	Principles of Accounting	Module Delivery Theory ☒ Lecture ☒ Lab ☐ Tutorial ☐ Practical ☐ Seminar ☒	
Module Type	Basic		
Module Code	IM1204		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGI (First Year)	Semester of Delivery	2
Administering Department	Industrial Management	College	Administration and Economics
Module Leader	Prof. Dr. Awadh Fadhil Ismail	e-mail	awadh.fadhil47@gmail.com
Module Leader's Acad. Title	Professor	Module Leader's Qualification	PhD
Module Tutor	Asst. Lecturer Hasan Ali Kadhim	e-mail	hasan.ali5@alfarabiuc.edu.iq
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	1.0

Relation with Other Modules			
Prerequisite Module	None	Semester	—
Co-requisite Module	None	Semester	—

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	- Introduce students to the basic concepts and principles that underpin the understanding of accounting as a science and a practice. - Enhance students' ability to make effective, well-considered decisions. - Stimulate critical and creative thinking in solving problems and developing new strategies to achieve institutional goals.
Module Learning Outcomes	- Understand advanced concepts in accounting and the development of the fields of financial accounting. - Acquire knowledge of the principles of financial accounting. - Understand the methods specific to the fundamentals of financial accounting.
Indicative Contents	- Recognize the importance of financial accounting and the mechanisms for finding solutions to problems. - Know the tools, means, and applications of financial accounting. - Analyze problems using financial accounting and contribute to solving them.

Learning and Teaching Strategies	
Strategies	- Lectures delivered by the instructor to guide students and present the fundamental concepts and required knowledge. - Interactive group discussions that encourage the exchange of ideas and deepen students' understanding.

	• Case studies used to illustrate the practical application of theoretical concepts and to stimulate analytical thinking and decision-making. • Continuous assessment using a variety of tools to measure students' progress and understanding. • Presentation of material via PowerPoint to support explanation.
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Student Workload (SWL) — calculated for 15 weeks			
Structured SWL (h/sem)	—	Structured SWL (h/w)	—
Unstructured SWL (h/sem)	—	Unstructured SWL (h/w)	—
Total SWL (h/sem)	150		

Module Evaluation				
Type	Assessment	Time/Number	Weight (Marks)	Week Due
Formative	Quizzes	2	10% (10)	3 – 10
Formative	Assignments	2	10% (10)	4 – 8
Formative	Projects / Lab	—	0% (0)	—
Formative	Report	1	10% (10)	11
Summative	Midterm Exam	1	20% (20)	13
Summative	Final Exam	1	50% (50)	16
Total Assessment			100% (100)	

Delivery Plan (Weekly Syllabus)	
Week	Material Covered
Week 1	Introduction to financial accounting: its concept and objectives, the fields of accounting, accounting entities, and the accounting cycle.
Week 2	An overview of accounting concepts, principles, assumptions, and constraints.
Week 3	Foundations and rules for recording financial transactions: the balance-sheet-equation method.
Week 4	The single-entry method.
Week 5	Recording financial transactions: the double-entry method.
Week 6	First examination.
Week 7	The effect of the balance-sheet equation on double entry.
Week 8	The trial balance.
Week 9	Capital financial transactions.
Week 10	Financing operations.
Week 11	Purchase and sale operations.
Week 12	Goods-transport expenses and delivery terms.
Week 13	Accounting treatments for the types of discount.
Week 14	Discussion of questions and exercises.
Week 15	Second examination.

Learning and Teaching Resources

	Text	Available in the Library?
Required Texts	Principles of Financial Accounting, Prof. Dr. Safaa Ahmed Mohammed Al-Ani and Asst. Prof. Dr. Hakim Hammoud Falih Al-Saadi, together with supporting texts and references.	
Recommended Texts	Iraqi academic journals.	
Websites	Research, periodicals, and information technology accessed online according to the course topics.	

Module 5: Principles of Economics (IM1104)

Module Information			
Module Title	Principles of Economics	Module Delivery Theory ☒ Lecture ☒ Lab ☐ Tutorial ☐ Practical ☐ Seminar ☒	
Module Type	Basic		
Module Code	IM1104		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGI (First Year)	Semester of Delivery	1
Administering Department	Industrial Management	College	Administration and Economics
Module Leader	Prof. Dr. Awadh Fadhil Ismail	e-mail	awadh.fadhil47@gmail.com
Module Leader's Acad. Title	Professor	Module Leader's Qualification	PhD
Module Tutor	Asst. Lecturer Hala Gharib Muhaisin	e-mail	hala.gharib@alfarabiuc.edu.iq
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	1.0

Relation with Other Modules			
Prerequisite Module	None	Semester	—
Co-requisite Module	None	Semester	—

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	- Teach students the principles of microeconomics and provide a general economic culture. - Focus examples on aspects of economics and management. - Stimulate students' faculties through analytical and reflective questions. - Link economic laws, analyses, and theories to reality. - Teach students how to make economic decisions.
Module Learning Outcomes	- Understand the basic concepts of economics. - Be familiar with economic theories and the evolution of economic thought. - Be familiar with various economic problems, their causes, and the methods that contribute to solving them.
Indicative Contents	- Commitment to work ethics — developing a deep understanding of professional ethics and applying it in daily managerial decisions, and promoting integrity and transparency. - Commitment to justice and equality — treating employees, colleagues, and clients fairly and without discrimination, and entrenching equality of opportunity within the work environment. - Respect and appreciation — respecting colleagues, clients, and stakeholders, and valuing individual and collective effort. - Teamwork — encouraging cooperation to achieve common goals and promoting mutual trust and respect among team members.

Learning and Teaching Strategies

Strategies	• Lectures delivered by the instructor to guide students and present the fundamental concepts and required knowledge. • Interactive group discussions that encourage the exchange of ideas and deepen students' understanding. • Case studies used to illustrate the practical application of theoretical concepts and to stimulate analytical thinking and decision-making. • Continuous assessment using a variety of tools to measure students' progress and understanding. • Presentation of material via PowerPoint to support explanation.
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Student Workload (SWL) — calculated for 15 weeks

Structured SWL (h/sem)	—	Structured SWL (h/w)	—
Unstructured SWL (h/sem)	—	Unstructured SWL (h/w)	—
Total SWL (h/sem)	150		

Module Evaluation

Type	Assessment	Time/Number	Weight (Marks)	Week Due
Formative	Quizzes	2	10% (10)	3 – 10
Formative	Assignments	2	10% (10)	4 – 8
Formative	Projects / Lab	—	0% (0)	—
Formative	Report	1	10% (10)	11
Summative	Midterm Exam	1	20% (20)	13
Summative	Final Exam	1	50% (50)	16
Total Assessment			100% (100)	

Delivery Plan (Weekly Syllabus)

Week	Material Covered
Week 1	The relationship of economics to other sciences; the definition of economics; the economic problem; micro- vs. macroeconomic analysis; methods of economic analysis; the economic system.
Week 2	Demand: its definition, law, schedule, and curve; the inverse relationship between quantity demanded and price; the determinants and types of demand.
Week 3	Price, income, and cross-price elasticities of demand.
Week 4	Factors affecting elasticity and its importance in economic analysis.
Week 5	Consumer-behavior theory: marginal utility and the modern indifference-curve analysis.
Week 6	Supply: its concept and determinants, the aggregate-supply function, elasticity of supply, and the factors affecting it.
Week 7	Equilibrium price and changes in the equilibrium price.
Week 8	Elasticity and shifts in supply and demand; applied cases.
Week 9	Determining a production function; calculating total revenue.
Week 10	Costs: definition and types; the relationship between output and cost curves; total, average, and marginal revenue.

Week 11	Markets and price determination; perfect competition in the short and long run.
Week 12	Pure monopoly: price and quantity in the short and long run; price discrimination.
Week 13	Oligopoly: its characteristics, equilibrium, and the kinked demand curve.
Week 14	Review of previous chapters.
Week 15	Midterm examination.

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Principles of Economics, Dr. Karim Mahdi Al-Hasnawi; and Principles of Economics (2023), Dr. Jamal Dawood Salman.	
Recommended Texts	Sustainable Development and Poverty Modeling, Wahiba Bourbaain, 2020 (supplementary: poverty eradication as a sustainable-development goal).	
Websites	Research, periodicals, and information technology accessed online according to the course topics.	

Module 6: Fundamentals of Computer Science (UN125)

Module Information			
Module Title	Fundamentals of Computer Science	Module Delivery Theory ☒ Lecture ☒ Lab ☐ Tutorial ☐ Practical ☐ Seminar ☒	
Module Type	Basic		
Module Code	UN125		
ECTS Credits	3		
SWL (hr/sem)	48		
Module Level	UGI (First Year)	Semester of Delivery	1
Administering Department	Industrial Management	College	Administration and Economics
Module Leader	Prof. Dr. Awadh Fadhil Ismail	e-mail	awadh.fadhil47@gmail.com
Module Leader's Acad. Title	Professor	Module Leader's Qualification	PhD
Module Tutor	Asst. Prof. Dr. Sinan Hatif	e-mail	sinan.h.a@ihcoedu.uobaghdad.edu.iq
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	1.0

Relation with Other Modules			
Prerequisite Module	None	Semester	—
Co-requisite Module	None	Semester	—

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	• Enable the student to grasp the basic concepts of using and managing a computer. • Introduce the student to computer hardware and software components. • Equip the student with the skills to use operating systems and application software. • Raise the student's awareness of digital ethics and digital citizenship. • Introduce cyber risks and methods of protection. • Help the student understand the health hazards of computer use and how to prevent them.
Module Learning Outcomes	• Develop effective computer-use skills. • Understand the role of technology in learning and its development. • Be able to diagnose and handle simple computer faults.
Indicative Contents	• Introduction to the computer: operating system, program, algorithm, data and information. • Number systems and data-representation units: the binary system, the bit and the byte and their multiples. • The historical development of the computer and modern computer types (PC, laptop, tablet, wearable, server). • Hardware: input and output devices and the system unit (motherboard, CPU, RAM/ROM, power supply, video card, ports). • Software: operating systems, programming languages, application software, and

	intelligent systems; the concept of a platform. • Digital ethics and digital citizenship; legal violations and cyber risks (viruses, spyware, hacking, malware); cybersecurity and protection. • Health hazards of computer use and methods of prevention.
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Learning and Teaching Strategies	
Strategies	• Promoting effective use of technology in learning. • Lectures delivered by the instructors. • Discussion of the lecture between instructors and students. • Laboratory sessions in which students practice computer skills and diagnose and correct faults. • Continuous assessment through oral and written questions. • Presentation of the material on the board and via PowerPoint.

Student Workload (SWL) — calculated for 15 weeks			
Structured SWL (h/sem)	48	Structured SWL (h/w)	3
Unstructured SWL (h/sem)	27	Unstructured SWL (h/w)	1
Total SWL (h/sem)	75		

Module Evaluation				
Type	Assessment	Time/Number	Weight (Marks)	Week Due
Formative	Quizzes	2	10% (10)	3 – 10
Formative	Assignments	2	10% (10)	4 – 8
Formative	Projects / Lab	—	0% (0)	—
Formative	Report	1	10% (10)	11
Summative	Midterm Exam	1	20% (20)	13
Summative	Final Exam	1	50% (50)	16
Total Assessment			100% (100)	

Delivery Plan (Weekly Syllabus)	
Week	Material Covered
Week 1	Introduction to the computer: the computer, operating system, and program.
Week 2	Algorithms; data and information; the binary system; digital data-representation units.
Week 3	A brief history of the computer (mechanical, electronic digital, personal).
Week 4	Computer types (laptop, tablet, wearable, server) and their manufacturers.
Week 5	Computer components: hardware and software.
Week 6	Hardware: input devices (keyboard, mouse, touchpad, scanner).
Week 7	Examination.
Week 8	Output devices (monitor, speakers, data projector, printer).
Week 9	The system unit: motherboard, CPU, and cooling fan.
Week 10	Memory (ROM, RAM, secondary), power supply, video card, and ports.

Week 11	Software: operating system, programming languages, application software, and intelligent systems.
Week 12	Digital ethics: etiquette of interaction and the digital citizen.
Week 13	Legal violations in the digital world and its risks (viruses, spyware, hacking).
Week 14	Protection in the digital world: protection steps and cybersecurity.
Week 15	Health hazards of computer use and methods of prevention.

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Fundamentals of the Computer and its Office Applications (Part One).	
Recommended Texts	—	
Websites	—	

Module 7: Arabic Language (UN116)

Module Information			
Module Title	Arabic Language	Module Delivery Theory ☒ Lecture ☒ Lab ☐ Tutorial ☐ Practical ☐ Seminar ☒	
Module Type	Support		
Module Code	UN116		
ECTS Credits	2		
SWL (hr/sem)	50		
Module Level	UGI (First Year)	Semester of Delivery	1
Administering Department	Industrial Management	College	Administration and Economics
Module Leader	Prof. Dr. Awadh Fadhil Ismail	e-mail	awadh.fadhil47@gmail.com
Module Leader's Acad. Title	Professor	Module Leader's Qualification	PhD
Module Tutor	Prof. Dr. Hussein Muhaisin	e-mail	hassin.mohaisen@alfarabiuc.edu.iq
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	1.0

Relation with Other Modules			
Prerequisite Module	None	Semester	—
Co-requisite Module	None	Semester	—

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	- Improve students' command of the language in both pronunciation and writing. - Diagnose linguistic, morphological, and syntactic errors in order to achieve sound, error-free language. - Explore the secrets of the inimitability of the Qur'anic text through selected exegeses.
Module Learning Outcomes	- Express ideas and feelings in sound, error-free language. - Manage dialogue across different educational, professional, and social levels. - Develop the skills of forming sentences and using vocabulary correctly. - Enrich the lexical repertoire so that the student can select appropriate vocabulary to express ideas and intentions.
Indicative Contents	Selected readings in classical and modern Arabic, grammar, and morphology, supporting accurate written and spoken expression.

Learning and Teaching Strategies	
Strategies	- Lectures presenting the fundamental concepts. - Interactive group discussions. - Study of applied examples to illustrate practical applications. - Continuous assessment through oral and written tests. - Presentation of the material via PowerPoint.

Student Workload (SWL) — calculated for 15 weeks			
Structured SWL (h/sem)	30	Structured SWL (h/w)	2
Unstructured SWL (h/sem)	20	Unstructured SWL (h/w)	1.3
Total SWL (h/sem)	50		

Module Evaluation				
Type	Assessment	Time/Number	Weight (Marks)	Week Due
Formative	Quizzes	2	10% (10)	3 – 10
Formative	Assignments	2	10% (10)	4 – 8
Formative	Projects / Lab	—	0% (0)	—
Formative	Report	1	10% (10)	11
Summative	Midterm Exam	1	20% (20)	13
Summative	Final Exam	1	50% (50)	16
Total Assessment			100% (100)	

Delivery Plan (Weekly Syllabus)	
Week	Material Covered
Week 1	Reading, memorizing, and explaining verses 260–263 of Surat al-Baqarah and the hadith “I was sent only to perfect noble character.”
Week 2	Literature: the life of the pre-Islamic poet and his poem “Ya ‘Abla, where is the escape from death?”
Week 3	Study of selected Arabic poetry.
Week 4	Study of the Mu‘allaqa of Zuhayr ibn Abi Sulma.
Week 5	Morphological measure: verb forms.
Week 6	Morphological measure: noun and adjective forms.
Week 7	Study of plurals in the language.
Week 8	Attaching the verb to pronouns.
Week 9	Examination (electronic).
Week 10	Revision and applied exercises.
Week 11	Study of derivatives.
Week 12	The solar and lunar letters.
Week 13	Punctuation marks.
Week 14	Punctuation marks (continued).
Week 15	Common linguistic errors.

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Jami‘ al-Durus al-‘Arabiyya; al-Nahw al-Wafi; and al-Nahw by Muhammad Makkawi.	
Recommended Texts	The Holy Qur’an; classical Arabic works in poetry and prose; local novels and stories; and Iraqi academic journals.	
Websites	Research, periodicals, and information technology accessed online	

	according to the course topics.	
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Module 8: Environmental Management and Industrial Pollution (IM1201)

Module Information			
Module Title	Environmental Management and Industrial Pollution	Module Delivery Theory ☒ Lecture ☒ Lab ☐ Tutorial ☐ Practical ☐ Seminar ☒	
Module Type	Core		
Module Code	IM1201		
ECTS Credits	7.4		
SWL (hr/sem)	185		
Module Level	UGI (First Year)	Semester of Delivery	2
Administering Department	Industrial Management	College	Administration and Economics
Module Leader	Prof. Dr. Awadh Fadhil Ismail	e-mail	awadh.fadhil47@gmail.com
Module Leader's Acad. Title	Professor	Module Leader's Qualification	PhD
Module Tutor	Asst. Lecturer Issa Ayyal Salih	e-mail	essaayaail158@gmail.com
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	1.0

Relation with Other Modules			
Prerequisite Module	None	Semester	—
Co-requisite Module	None	Semester	—

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	- Teach students about the environment, particularly the industrial environment. - Teach the objectives of environmental protection. - Explain the types of pollutants. - Explain the tools for preserving the environment and reducing pollutants.
Module Learning Outcomes	- Provide a basic introduction to the environment and its types. - Teach the student the tools and methods used in studying the industrial environment. - Teach the methods used to reduce industrial-environment pollutants.
Indicative Contents	- The principal means and tools for preserving the environment and the quality of its performance. - The indicative specifications for applying an environmental quality-management system.

Learning and Teaching Strategies	
Strategies	Teaching students the environmental-management system and green-manufacturing strategies, and how to apply an environmental quality-management system.

Student Workload (SWL) — calculated for 15 weeks

Structured SWL (h/sem)	123	Structured SWL (h/w)	8.2
Unstructured SWL (h/sem)	62	Unstructured SWL (h/w)	4.1
Total SWL (h/sem)	185		

Module Evaluation				
Type	Assessment	Time/Number	Weight (Marks)	Week Due
Formative	Quizzes	2	10% (10)	3 – 10
Formative	Assignments	2	10% (10)	4 – 8
Formative	Projects / Lab	—	0% (0)	—
Formative	Report	1	10% (10)	11
Summative	Midterm Exam	1	20% (20)	13
Summative	Final Exam	1	50% (50)	16
Total Assessment			100% (100)	

Delivery Plan (Weekly Syllabus)	
Week	Material Covered
Week 1	Introduction to the course material; setting strategies to achieve the required objectives; distributing requirements and tasks to students.
Week 2	The concept of the environment and environmental management: ecosystems, their components, and environmental problems and their causes.
Week 3	Management and recycling in industrial organizations.
Week 4	Environmentally friendly technology and green production: concept, importance, and manufacturing dimensions; the relationship of green manufacturing to lean production.
Week 5	The ISO 14001 environmental-management system and requirements, and the green ZIA program.
Week 6	Characteristics of environmental work: natural working conditions.
Week 7	First examination.
Week 8	Functional empowerment and its role in improving the relationship between green human-resource management and environmental performance.
Week 9	The impact of green talent-management practices on industrial organizations.
Week 10	Industrial accidents, industrial security, and occupational safety.
Week 11	The OHSAS 45001 occupational health and safety management system and requirements.
Week 12	The role of lighting in the comfort and satisfaction of workers in industrial organizations.
Week 13	Integration of the ISO 14001 environmental-management system.
Week 14	Applied review and discussion.
Week 15	Presentation and discussion of the final results of the course with the students.

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Human Resource Management with a Focus on Occupational Health and Safety, Dr. Atheer Abdullah Mohammed and Asst. Prof. Dr. Hussein Walid Hussein.	No

Recommended Texts	—	No
Websites	—	

Module 9: English Language (UN126)

Course Information	
Course Name	English Language
Course Code	UN126
Semester / Year	2025 – 2026
Date this Description was Prepared	16 February 2026
Available Forms of Attendance	In-person / theoretical
Total Teaching Hours / Units	21 hours per month / 5 units

Course Supervisor: Asst. Lecturer Ahmed Hamid Hammadi Ali

Course Aims

This module is built around the study of Charles Dickens's novel *Hard Times*. Its aims are to:

- Introduce the student to the novel as a literary genre, with historical background on the Victorian era and its social and economic conditions.
- Provide a general introduction to narrative fiction and its basic elements: plot, characters, time and place, and style.
- Enable the student to understand the novel's main themes, such as industry, social class, education, and Dickens's social criticism.
- Identify the narrative techniques and literary styles used in the novel.
- Train the student to analyze the narrative text and interpret characters, events, and symbols.
- Develop the student's capacity for critical discussion and for extracting main ideas.
- Train the student to write an analysis of the novel or one of its chapters.

Learning and Teaching Strategies

- The lecture method, using the interactive whiteboard to explain the novel's events and its historical and intellectual context.
- Explanation of the basic elements of the novel: plot, characters, time and place, and symbols.
- Provision of the basic concepts and supplementary topics related to narrative analysis and literary criticism.
- Discussion groups within lectures to examine the main ideas, character development, and the novel's social significance.
- Critical-thinking questions during the lesson (why, how, what does this mean, what is the significance) to strengthen analysis and inference.
- Training students to analyze selected passages and relate them to the novel's general themes.
- Homework requiring personal interpretation and analysis of events and characters, supported by textual evidence.

Course Structure (Weekly Plan)			
Week	Hours	Unit / Topic	Required Learning Outcomes
1 + 2	6	Introduction to the Novel and the Victorian Context (<i>Hard Times</i>)	Gain a general knowledge of the novel as a genre and understand the historical and social context of the Victorian era.
3 + 4	6	Book the First: Sowing (Chapters 1–5)	Understand the novel's opening events and analyze the main characters.
5 + 6	6	Book the First: Sowing (Chapters 6–10)	Analyze the development of plot and conflict and

			understand the social ideas presented.
7 + 8	6	Book the Second: Reaping (Selected Chapters)	Understand the shifts in characters and events and strengthen critical-analysis skills.
9	6	Themes and Symbolism in Hard Times	Analyze the intellectual and moral issues and interpret the symbols.
10	3	Examination	—
11 + 12	6	Book the Second: Reaping (continued)	Follow the development of events and study the relationships between characters.
13 + 14	6	Book the Third: Garnering	Understand the novel's conclusion and overall structure and extract its main ideas.
15 + 16	6	Critical Analysis and Character Study	Apply comprehensive critical analysis and develop analytical-writing skills.
17	6	Revision	—
18	3	Examination	—

Teaching method for all units: lecture, questioning, discussion, and brainstorming. Assessment for all units: oral and written tests, homework, and pop quizzes.

Course Evaluation

The grade is distributed out of 100 according to the tasks assigned to the student — daily preparation; daily, oral, monthly, and written examinations; reports; and similar work — comprising written tests, oral examinations, pop quizzes, and homework.

Learning and Teaching Resources

	Text	Available in the Library?
Required Texts	Hard Times – Charles Dickens; and the Norton Critical Edition of Hard Times, ed. George Ford and Sylvère Monod.	No
Recommended Texts	Charles Dickens: A Critical Introduction – Philip Collins.	No
Websites	Google Scholar; ResearchGate; Project Gutenberg.	

Appendix A — Module Description Form (Template)IM1203

A complete worked sample of the official bilingual Module Description Form, transcribed from the template that was embedded as images in the original file (sample course: Engineering Drawing, CE110). It is reproduced here as editable tables so it can be reused as a blank template for new modules.

Module Information			
معلومات المادة الدراسية			
Module Title اسم المادة	Engineering Drawing	Module Delivery ☒ Theory ☐ Lecture ☐ Lab ☐ Tutorial ☐ Practical ☐ Seminar	
Module Type نوع المادة	Support or related learning activity		
Module Code رمز المادة	CE110		
ECTS Credits نظام ECTS	7		
SSWL (hr/sem) الحمل الدراسي المنتظم	108		
USSWL (hr/sem) الحمل الدراسي غير المنتظم	67		
SWL (hr/sem) الحمل الدراسي الكلي	175		
Module Level مستوى المادة	1	Semester of Delivery الفصل الدراسي للتسليم	1
Administering Department القسم	CE	College الكلية	GE
Module Leader مدرس المادة	Alaa Faleh; Ban Fadhil; Ahmed Salman; Ahmed Ibrahim; Rania Sadiq	e-mail البريد الإلكتروني	alaa.faleh@coeng.uobaghdad.edu.iq; a.jswad1901a@coeng.uobaghdad.edu.iq; ahmed.ibrahim@coeng.uobaghdad.edu.iq; rania.s@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title اللقب العلمي	Lecturer; Lecturer; Lecturer; Asst. Lecturer	Module Leader's Qualification المؤهل العلمي	M.Sc; Ph.D; M.Sc; M.Sc
Module Tutor المدرس المساعد	Name (if available)	e-mail البريد الإلكتروني	E-mail
Peer Reviewer Name اسم المراجع النظير	Alaa Faleh	e-mail البريد الإلكتروني	alaa.faleh@coeng.uobaghdad.edu.iq
Scientific Committee Approval Date تاريخ موافقة اللجنة العلمية	11/06/2023	Version Number رقم الإصدار	1.0

Relation with Other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module المتطلبات السابقة	—	Semester الفصل	—

Co-requisites module المتطلبات المصاحبة	None	Semester الفصل	—
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Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة	This unit will enable learners to produce engineering drawings of different components, assemblies, and circuits using a variety of sketching, drawing, and computer-aided drafting techniques.
Module Learning Outcomes مخرجات التعلم	• Apply the basic principles of engineering drawing. • Identify the types of drawing lines. • Draw various curves and understand geometry processes. • Produce projection drawings. • Draw sections and place dimensions on the drawing. • Draw three-dimensional shapes by giving the projections of the body.
Indicative Contents المحتويات الإرشادية	• Part A — Introduction: the principle of engineering drawing and the types and sizes of pens and sheets used, and the drawing tools. [3 hrs] • Part B — Basic principles of engineering drawing; writing letters and numbers. [3 hrs] • Part C — Types of drawing lines. [6 hrs] • Part D — Geometry processes. [6 hrs] • Part E — Projections. [9 hrs] • Part F — Sectional view. [6 hrs] • Part G — Dimensions. [3 hrs] • Part H — Isometric shape. [9 hrs]

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies الاستراتيجيات	The main strategy adopted in delivering this module is to encourage students' participation in the exercises and to refine and expand their critical-thinking skills, comprising: • Lectures. • Tutorials. • Homework and assignments. • Lab experiments. • Tests and exams. • In-class questions and discussions. • Connecting theory and application. • Field trips. • Extracurricular activities. • Seminars. • In- and out-of-class oral conversations. • Reports, presentations, and posters.
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Student Workload (SWL) — calculated for 15 weeks

الحمل الدراسي للطالب محسوب لـ 15 أسبوعاً

Structured SWL (h/sem)	108	Structured SWL (h/w)	7
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Unstructured SWL (h/sem)	67	Unstructured SWL (h/w)	4
Total SWL (h/sem)	175		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative	Quizzes	1	10% (10)	5, 9, 11, 14	LO #2,#3,#4,#5,#6
Formative	Assignments (CW)	1	10% (10)	3–15	All
Formative	Assignments (HW)	1	10% (10)	3–15	All
Formative	Lab (AutoCAD)	1	10% (10)	4, 14, 15	All
Summative	Midterm Exam	2 hr	10% (10)	8	All
Summative	Final Exam	3 hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الأسبوعي النظري	
Week	Material Covered
Week 1	Introduction.
Week 2	Basic principles of engineering drawing.
Week 3	Types of drawing lines.
Week 4	Types of drawing lines.
Week 5	Geometry processes.
Week 6	Geometry processes.
Week 7	Projections.
Week 8	Projections.
Week 9	Projections.
Week 10	Sectional view.
Week 11	Sectional view.
Week 12	Dimensions.
Week 13	Isometric shape.
Week 14	Isometric shape.
Week 15	Isometric shape.
Week 16	Preparatory week before the final exam.

Delivery Plan (Weekly Lab. Syllabus)	
المنهاج الأسبوعي للمختبر	
Week	Material Covered
Week 1	Introduction to AutoCAD software.
Week 2	Control page in AutoCAD software.
Week 3	Types of coordinates.
Week 4	The command line and applications.

Week 5	The modify commands (copy, move) with examples.
Week 6	Drawing aids (Grid, Snap, Polar, Object Tracking).
Week 7	The circle, rectangle, and offset commands with worked examples.
Week 8	Worked examples using polar and Cartesian coordinate options.
Week 9	The array (with types) and ellipse commands with worked examples in AutoCAD.
Week 10	The scale and align commands with a worked house-building example.
Week 11	The arc command with all options.
Week 12	The layers command with worked examples.
Week 13	The polyline command with options.
Week 14	Types of dimensions with applied examples.
Week 15	The text command and its types.
Week 16	Printing and plotting options with examples.

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	“Principles of Technical Drawing,” Frederick E. Giesecke, Alva Mitchell, Henry Cecil Spencer, Ivan Hill, John Thomas, James E. Novak, 1992; and “Graphics Drawing Workbook,” Gray R. Bertoline, 2000.	Yes
Recommended Texts	Engineering Drawing, Abed Alrasul Al-Khafaf, 1986.	Yes
Websites	Electronic references and internet sites.	

Grading Scheme

مخطط الدرجات

Group	Grade	Arabic	Marks %	Definition
Success Group (50–100)	A – Excellent	امتياز	90–100	Outstanding performance
	B – Very Good	جيد جداً	80–89	Above average with some errors
	C – Good	جيد	70–79	Sound work with notable errors
	D – Satisfactory	متوسط	60–69	Fair but with major shortcomings
	E – Sufficient	مقبول	50–59	Work meets the minimum criteria
Fail Group (0–49)	FX – Fail	راسب (قيد المعالجة)	45–49	More work required but credit awarded
	F – Fail	راسب	0–44	Considerable amount of work required

Note: Marks of 0.5 or above are rounded up to the next whole mark and below 0.5 down to the previous whole mark (e.g., 54.5 → 55, 54.4 → 54). The University does not condone “near-pass fails,” so the only adjustment to the original marker’s marks is the automatic rounding described above.