

**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.

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

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

Concepts and terminology:

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

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

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

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

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

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

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

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

Academic Program Description Form

University Name: Diyala

Faculty/Institute: Engineering

Scientific Department: Civil

Academic or Professional Program Name: BSc in Civil Engineering

Final Certificate Name: BSc in Civil Engineering

Academic System: Courses

Description Preparation Date: 15/5/2025

File Completion Date: 15/5/2025

Signature:

Head of Department

Name: Dr. Abbas H. Mohammed

Date: 15/5/2025

Signature:

Scientific Associate

Name: Dr. Jabbar Q. Jabbar

Date: 15/5/2025

The file is checked by: Assist. prof. Dr. Salah N Farhan

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature:

Approval of the Dean

Prof. Dr. Anees A. Khadom

15/5/2025

1. Program Vision

- 1- The department seeks to continuously develop curricula in line with modern scientific developments in the field of civil engineering, in addition to completing all scientific requirements in the department.
- 2- The department strives to improve the teaching staff by sending members of the department for postgraduate studies inside and outside the country and creating appropriate conditions for scientific research in order to obtain the required academic degrees.
- 3- The department aspires to develop the postgraduate studies program by introducing doctoral studies in various civil engineering specializations to support the department in particular and other government departments in general with specialized scientific cadres.
- 4- The department aspires to involve the largest possible number of teaching staff in engineering consulting through the engineering consulting office and the scientific office in the college to gain scientific experience and to provide service to various state institutions.

2. Program Mission

The department is constantly developing curricula to keep pace with modern scientific developments in the field of civil engineering in its various specializations. The department seeks to build advanced scientific laboratories by equipping modern laboratory equipment that contributes significantly to the field of postgraduate studies and scientific research, in addition to seeking to participate in conducting laboratory tests required by engineering projects at the governorate level as a whole.

3. Program Objectives

The educational objectives of the Bachelor of Civil Engineering program are to produce graduates (within a few years of graduation):

1. Prepare specialized engineers capable of meeting the needs of society in all sectors and all branches.
2. Work on developing the cognitive capabilities and technological skills necessary to prepare professional leaders in the field of civil engineering.
3. Build and develop programs that serve the field of continuing education and sustainable development of engineering capabilities through the development of advanced consulting and research capabilities.
4. Vertical expansion through the development of higher academic programs and the activation of productive research programs.
5. Work on achieving international accreditation for accredited academic programs

4. Program Accreditation

Not at the moment

5. Other external influences

No

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
University Requirements	4	9	8%	
College Requirements	5	23	19%	
Department Requirements	17	88	73%	
Summer Training				
Other				

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours		
			Theoretical	Practical	Discussion
1 st Year- 1 st Semester	E101	Mathmatics I	4		1
	CE101	Engineering Mechanics I	3		
	U103	Computer Skills	1	2	2
	CE103	Construction Material I	2	2	
	CE105	Engineering Drawings	2	4	
	U101	Human Right & Democracy	2		1

1 st Year-2 nd Semester	E102	Mathmatics II	4		2
	CE102	Engineering Mechanics II	3		1
	CE107	Engineering Statistics	2		
	U104	English Language	2		
	U102	Arabic Language	2		
	CE104	Construction Material II	2		2
	CE106	Engineering Geology	2		1
2 nd Year-1 st Semester	CE 201	Strength of material I	3		1
	E201	Applied Mathematics I	3		1
	CE205	Engineering Survey I	2	3	
	CE207	Concrete Technology I	2	2	
	CE209	Fluid Mechanics I	2	2	1
	CE211	Building Construction	3		
2 nd Year-2 nd Semester	CE 202	Strength of material II	3		1
	E202	Applied Mathematics II	3		1
	CE203	Computer Application	2	2	
	CE206	Engineering Survey I	2	3	
	CE208	Concrete Technology II	2	2	
	CE210	Fluid Mechanics II	2	2	1
	E203	Albath Crimes	2		

8. Expected learning outcomes of the program

Knowledge

1. The ability to identify, formulate and solve engineering problems in civil engineering by applying the principles of engineering, science and mathematics.
2. The ability to produce engineering designs that meet the required needs within certain constraints by applying the processes of analysis, synthesis and design
3. The ability to create and implement appropriate measurements and tests with quality assurance, analysis and interpretation of the results and the ability to make engineering judgments on them to reach conclusions.

Skills

- 1- The ability to realize the need to continue self-development of professional knowledge and how to find, evaluate, collect and apply it correctly.
- 2- The ability to work effectively within work teams, set goals, plan activities, meet deadlines and manage risks and uncertainty.

Ethics

- 1- The ability to communicate effectively verbally with a group of people and in writing with

different levels of knowledge and for different purposes.

2- The ability to recognize ethical and professional responsibilities in engineering issues and make sound judgments that take into account the consequences arising from them in the financial, environmental, societal and global fields.

9. Teaching and Learning Strategies

- Providing students with the basics and additional topics related to previous educational outcomes and skills to solve practical problems.
- Solving a group of practical examples by the academic staff.
- Students participate during the lecture in solving some practical problems.
- The department's scientific laboratories are monitored by the academic staff.

10. Evaluation methods

- Daily exams with practical and scientific questions.
- Participation marks for difficult competition questions among students.
- Assigning grades to homework assignments and reports assigned to them.
- Monthly exams for the curriculum in addition to the final exam.

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching	
	General	Special			Staff	Lecturer
Prof.	Civil Eng.	Structure			4	
Asst. Prof.	Civil Eng.	Structure			4	
LECT.	Civil Eng.	Structure			1	
Asst. LECT.	Civil Eng.	Structure			4	
Prof.	Civil Eng.	Soil and foundation mechanics			2	
Asst. Prof.	Civil Eng.	Soil and foundation mechanics			1	
Asst. LECT.	Civil Eng.	Soil and foundation mechanics			3	
Prof.	Civil Eng.	Water resources			1	
Asst. Prof.	Civil Eng.	Water resources			1	
LECT.	Civil Eng.	Water resources			1	
Asst. LECT.	Civil Eng.	Water resources			1	
Prof.	Civil Eng.	Project Management			1	
LECT.	Civil Eng.	Project Management			1	
Asst. Prof.	Civil Eng.	Geomatics			1	
LECT.	Civil Eng.	Building Materials			1	

Professional Development

Mentoring new faculty members

Faculty members are instructed to hold regular meetings and review questionnaires received from students with the Scientific Committee.

Professional development of faculty members

The teaching staff undergoes development through training, workshops, and seminars. Progress is evaluated by subject performance.

12. Acceptance Criterion

According to the rules and regulations of Ministry of Higher Education and Scientific Research.

13. The most important sources of information about the program

- ✓ College website.
- ✓ The department's website and contact the department by email.

14. Program Development Plan

- The courses are updated annually to keep up with developments in computer science
- The laboratories are also updated under academic curricula.
- Additionally, postgraduate programs are now being offered.

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
1 st Year- 1 st Semester	E101	Mathmatics I	Basic		√										
	CE101	Engineering Mechanics I	Basic						√						
	U103	Computer Skills	Basic						√						
	CE103	Construction Material I	Basic						√						
	CE105	Engineering Drawings	Basic						√						
	U101	Human Right & Democracy	Basic		√										
1 st Year-2 nd Semester	E102	Mathmatics II	Basic		√										
	CE102	Engineering Mechanics II	Basic		√								√		
	CE107	Engineering Statistics	Basic		√										
	U104	English Language	Basic					√							
	U102	Arabic Language	Basic					√							
	CE104	Construction Material II	Basic										√		
2 nd Year-1 st Semester	CE 201	Strength of material I	Basic	√											
	E201	Applied Mathematics I	Basic	√											
	CE205	Engineering Survey I	Basic	√											

	CE207	Concrete Technology I	Basic	√	√										
	CE209	Fluid Mechanics I	Basic										√		
	CE211	Building Construction	Basic									√			
2 nd Year-2 nd Semester	CE 202	Strength of material II	Basic			√									
	E202	Applied Mathematics II	Basic		√										
	CE203	Computer Application	Basic	√	√										
	CE206	Engineering Survey I	Basic		√										
	CE208	Concrete Technology II	Basic	√	√										
	CE210	Fluid Mechanics II	Basic		√										
	E203	Albath Crimes	Basic			√									

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.



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MODULE DESCRIPTOR

وصف مادة رياضيات 1

Module Information معلومات المادة الدراسية			
Module Title	Mathematics I		Module Delivery
Module Type	Basic		Theory Lecture Tutorial
Module Code	E-101		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGI	Semester (s) offered	
Administering Department	Civil Engineering	College	College of Engineering
Module Leader	Dhamyaa Ali kadhim	e-mail	Dmia_Ali_eng@uodiyala.edu.iq
Module Leader's Acad. Title	Assistant lecturer	Module Leader's Qualification	M.SC.
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Review Committee Approval		Version Number	1.0



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Mathematics I	
Week 1	Cartesian coordinates, slope of lines, angle of inclination, functions, types of functions, graph of the functions, domain and range ,identifying functions, Circles and parabolas
Week 2	Introduction to vectors
Week 3	•Preliminaries Sum, differences, products and quotients of Composite functions, shifting a graph of a function, scaling and reflecting a graph of a function, Absolute value
Week 4	•Review of trigonometric function graph of trigonometric function, range and domain, identities
Week 5	•Limits and Continuity Properties, limits involving infinity, continuity
Week 6	•Transcendental functions Inverse function, graph of inverse function, Logarithmic and exponential functions, trigonometric functions , inverse trigonometric functions, hyperbolic functions, inverse hyperbolic functions
Week 7	•Derivatives Definition, rules of derivative, slopes , tangent lines, chain rule, derivative of trigonometric functions, Implicit differentiation, L hospital's rule
Week 8	derivative of inverse trigonometric functions, derivative of exponential and logarithmic functions
Week 9	•Applications of derivatives Speed and acceleration, Relative maximum and relative minimum
Week 10	Curve sketching with 1st and 2nd derivative
Week 11	Linearization
Week 12	rate of change problems
Week 13	Mean value theorem -Initial value problem
Week 14	Complex numbers: Basic definitions. The geometric representations of the complex numbers, argand diagram
Week 15	Basic operations with complex numbers, Euler's Formula
Week 16	Final Exam



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



MODULE DESCRIPTION

وصف مادة ميكانيك هندسي ا

Module Information			
معلومات المادة الدراسية			
Module Title	Engineering Mechanics I		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory
Module Code	CE101		<input type="checkbox"/> Lecture
ECTS Credits	6		<input type="checkbox"/> Lab
SWL (hr/sem)	150		<input checked="" type="checkbox"/> Tutorial
			<input type="checkbox"/> Practical
			<input type="checkbox"/> Seminar
Module Level	UGI	Semester of Delivery	One
Administering Department	Civil Engineering	College	College of Engineering
Module Leader	Abbas H. Mohammed	e-mail	abbas_mohammed_eng@uodiyala.edu.iq
Module Leader's Acad. Title	Assistance Professor	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Qassem Hamed Jalut	e-mail	qjalut@uodiyala.edu.iq
Scientific Committee Approval Date		Version Number	1.0



Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Engineering Mechanics I

	Engineering Mechanics I
Week 1	Introduction to engineering mechanics: statics
Week 2	Resolution of forces into components(two dimensions)
Week 3	Principle of Moments and Couples
Week 4	Resolution of forces into components(three dimensions)
Week 5	Principle of Moments and Couples (three dimensions)
Week 6	Result of coplanar forces system(concurrent, parallel and non-concurrent and non- parallel)
Week 7	Result of Non coplanar forces system (concurrent, parallel and non-concurrent and non-parallel)
Week 8	Result of Non coplanar forces system (non-concurrent and non- parallel)
Week 9	Equilibrium and Free-Body Diagram
Week 10	Analysis of Frames in the Plane
Week 11	Analysis of Frames in the Plane
Week 12	Analysis of Frames in the Space
Week 13	Analysis of Frames in the Space
Week 14	Analysis of Trusses in the Plane
Week 15	Analysis of Trusses in the Plane
Week 16	Preparatory week before the final Exam



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



MODULE DESCRIPTION

وصف مادة مهارات الحاسوب

Module Information			
معلومات المادة الدراسية			
Module Title	Computer Skills		Module Delivery
Module Type	Basic		<input checked="" type="checkbox"/> Theory
Module Code	U 103		<input type="checkbox"/> Lecture
ECTS Credits	3		<input checked="" type="checkbox"/> Lab
SWL (hr/sem)	75		<input type="checkbox"/> Tutorial
			<input type="checkbox"/> Practical
			<input type="checkbox"/> Seminar
Module Level	UGI	Semester of Delivery	one
Administering Department	Civil Engineering	College	College of Engineering
Module Leader	Mohammed AbdulMohsin	e-mail	mohameed-shareif@uodiyala.edu.iq
Module Leader's Acad. Title	Assistant Lecturer	Module Leader's Qualification	MSc
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date		Version Number	1.0



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Computer Skills

	Computer Skills
Week 1	Overview of computers and their basic components and applications
Week 2	Operating computer using GUI operating systems
Week 3	The basic use of Microsoft Windows operating system
Week 4	Microsoft Office Word: Getting Started with Word
Week 5	Microsoft Office Word: Editing a Document and Formatting Text and Paragraphs
Week 6	Microsoft Office Word: Adding Tables and Inserting Graphic Objects
Week 7	Microsoft Office Word: Controlling Page Appearance and Proofing a Document
Week 8	Microsoft Office Excel: Getting Started with Excel
Week 9	Microsoft Office Excel: Sorting, Selecting and Subtotaling data
Week 10	Microsoft Office Excel: Formulas and Functions
Week 11	Microsoft Office Excel: Worksheet Formatting and Presentation
Week 12	Microsoft Office PowerPoint: Getting Started with PowerPoint
Week 13	Microsoft Office PowerPoint: Developing a PowerPoint Presentation, Adding Graphical Elements to Your Presentation and Modifying Objects in Your Presentation
Week 14	Microsoft Office PowerPoint: Adding Graphical Elements, tables and charts to Your Presentation and Modifying Objects in Your Presentation
Week 15	Microsoft Office PowerPoint: Prepare to deliver your presentation
Week 16	Preparatory week before the final exam



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Computer Skills

	Computer Skills
Week 1	Introduction to the lab and get started with use of computer
Week 2	Basic use of Windows operating system
Week 3	General view of Windows OS tools with a focus on Microsoft Office tools
Week 4	Microsoft Office Word: Getting Started with Word
Week 5	Microsoft Office Word: Editing a Document and Formatting Text and Paragraphs
Week 6	Microsoft Office Word: Adding Tables and Inserting Graphic Objects
Week 7	Microsoft Office Word: Controlling Page Appearance and Proofing a Document
Week 8	Microsoft Office Excel: Getting Started with Excel
Week 9	Microsoft Office Excel: Sorting, Selecting and Subtotaling data
Week 10	Microsoft Office Excel: Formulas and Functions
Week 11	Microsoft Office Excel: Worksheet Formatting and Presentation
Week 12	Microsoft Office PowerPoint: Getting Started with PowerPoint
Week 13	Microsoft Office PowerPoint: Developing a PowerPoint Presentation, Adding Graphical Elements to Your Presentation and Modifying Objects in Your Presentation
Week 14	Microsoft Office PowerPoint: Adding Graphical Elements, tables and charts to Your Presentation and Modifying Objects in Your Presentation
Week 15	Microsoft Office PowerPoint: Prepare to deliver your presentation



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



MODULE DESCRIPTION

وصف مادة مواد البناء

Module Information معلومات المادة الدراسية			
Module Title	Construction Material I		Module Delivery
Module Type	C		xTheory Lecture Lab xTutorial Practical Seminar
Module Code	CE103		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	1	Semester of Delivery	
Administering Department	Civil Engineering	College	College of Engineering
Module Leader	Zainab Hataf Naji	e-mail	zainab-hataf@uodiyala.edu.iq
Module Leader's Acad. Title	Lec.	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date		Version Number	1.0



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Construction Material I	
Week 1	Introduction to building material , Types of bonding
Week 2	Classification of engineering materials, Factors affecting materials properties
Week 3	Mechanical properties of material , stress
Week 4	Mechanical properties of material , ,Deformation, strain, Stress – Strain Relationship
Week 5	Mechanical properties of materials(The tensile test , Stress-strain curve,Modulus of elasticity, Strength , Breaking Strength, Ultimate strength, Reduction of area, Elongation)
Week 6	Mechanical properties of materials(Ductility, Toughness, Brittleness, Resilience, Stiffness , Plasticity, Elasticity , Hardness, Creep, Fatigue)
Week 7	Bricks (characteristics, classification, clay brick, Raw materials,Harmful ingredients in clay bricks
Week 8	Bricks(Composition of good clay brick, manufacture of clay brick,characteristic of clay brick,)
Week 9	Bricks(Properties of bricks)
Week 10	Bricks(Sand – Lime bricks, Raw materials, Concrete bricks
Week 11	Bonding material (Gypsum plaster, Raw materials, Manufacture of gypsum plaster)
Week 12	Bonding material (Gypsum products)
Week 13	Bonding material (lime, Manufacture of lime, Raw materials - Lime stone rocks, Theory of calcinations, Properties of Quick Lime)
Week 14	Bonding material(Process of manufacture, Uses , Properties)
Week 15	Portland cement(Manufacture)



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Construction Material I

	Construction Material I
Week 1	Tensile Test
Week 2	Discussion of the results
Week 3	Test the Shape and Dimensions of the Bricks
Week 4	Test Bricks Absorption for water
Week 5	Discussion of the results
Week 6	Test Of Efflorescence in the Bricks
Week 7	Discussion of the results
Week 8	Determination Of Compressive Strength of the Bricks
Week 9	Discussion of the results
Week 10	Determination Modulus of Rupture for the Bricks
Week 11	Discussion of the results
Week 12	Test Gypsum Fineness
Week 13	Discussion of the results
Week 14	Test Standard Consistency for Gypsum
Week 15	Discussion of the results



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



MODULE DESCRIPTION

وصف مادة الرسم الهندسي

Module Information			
معلومات المادة الدراسية			
Module Title	Engineering Drawings		Module Delivery
Module Type	C		x Theory Lecture Lab x Tutorial Practical x Seminar
Module Code	CE105		
ECTS Credits	7		
SWL (hr/sem)	175		
Module Level	1	Semester of Delivery	
Administering Department	Civil Engineering	College	College of Engineering
Module Leader	Nisreen Jawad Rasheed	e-mail	Nisreen.j.r.h@uodiyala.edu.iq
Module Leader's Acad. Title	Asist. Lecturer	Module Leader's Qualification	M.Sc.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date		Version Number	1.0



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Engineering Drawings

	Engineering Drawings
Week 1	Introduction to engineering drawing
Week 2	Basic Instruments that is used in engineering drawing - Types of lines
Week 3	Engineering Operations
Week 4	Engineering Operations
Week 5	Engineering Operations
Week 6	Pentagonal shape and hexagonal shape
Week 7	Projections
Week 8	Projections
Week 9	Projections
Week 10	Isometric Drawing
Week 11	Isometric Drawing
Week 12	Isometric Drawing
Week 13	Sections
Week 14	Auto-cad drawing
Week 15	Auto-cad drawing
Week 16	Preparatory week before the final Exam



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



MODULE DESCRIPTION

وصف مادة حقوق انسان وديمقراطية

Module Information			
معلومات المادة الدراسية			
Module Title	Human Right & Democracy		Module Delivery
Module Type	B		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	U101		
ECTS Credits	2		
SWL (hr/sem)	50		
Module Level		Semester of Delivery	
Administering Department	جميع اقسام الكلية	College	College of Engineering
Module Leader	ايلاف واثق ابراهيم	e-mail	ilafibraheem@uodiyala.edu.iq
Module Leader's Acad. Title		Module Leader's Qualification	MSc
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date	١٢/06/2023	Version Number	



Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Human Right & Democracy

Week	Topic
Week 1	محاضرة تعريفية عن المادة واهميتها ..
Week 2	تعريف الحق والانسان وحقوق الانسان واهمية حقوق الانسان ,حقوق الانسان في الدين الإسلامي والحضارات القديمة.
Week 3	مصادر حقوق الانسان الدولية والإقليمية والمحلية.
Week 4	ضمانات حقوق الانسان الدستورية والقانونية وضمانات حقوق الانسان على الصعيد الدولي.
Week 5	ضمانات حقوق الانسان في الإسلام
Week 6	دور المنظمات الإقليمية في حماية حقوق الانسان.
Week 7	خصائص حقوق الانسان وتعريف الحريات العامة وانواعه والمقارنة بينها وبين الحقوق القانون الدولي لحقوق الانسان والقانون الدولي الإنساني ومنظمة الصليب الأحمر.
Week 8	مستقبل حقوق الانسان وسبل تطويرها .
Week 9	العولمة وحقوق الانسان .
Week 10	تعريف الديمقراطية وتطورها التاريخي ومبادئها . الديمقراطية بين العالمية والخصوصية . اشكال الديمقراطية / الديمقراطية المباشرة.
Week 11	الديمقراطية شبه المباشرة والديمقراطية التمثيلية / اركان النظام التمثيلي / اشكال النظام التمثيلي.
Week 12	المجلس النيابي وانواعه / الانتخاب وشروطه / هيئة الناخبين.
Week 13	تنظيم عملية الانتخاب / تحديد الدوائر الانتخابية / القوائم الانتخابية / المرشحون/ الحملة الانتخابية / التصويت .
Week 14	نظم الانتخابات.
Week 15	علاقة الديمقراطية بحقوق الانسان وكيفية التأثير والتأثر فيما بينها.
Week 16	الامتحان النهائي



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



MODULE DESCRIPTOR

وصف مادة رياضيات II

Module Information معلومات المادة الدراسية			
Module Title	Mathematics II		Module Delivery
Module Type	Basic		Theory Lecture Tutorial
Module Code	E 102		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGI	Semester (s) offered	
Administering Department	Civil Engineering	College	College of Engineering
Module Leader	Dhamyaa Ali kadhim	e-mail	Dmia_Ali_eng@uodiyala.edu.iq
Module Leader's Acad. Title		Module Leader's Qualification	M.SC.
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Review Committee Approval		Version Number	1.0



Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Mathematics II	
Week 1	Integration: Definition, antiderivative, definite and indefinite integral
Week 2	Integration and transcendental functions: (trigonometric and inverse trigonometric functions, exponential and logarithmic functions)
Week 3	Integration and transcendental functions: Integration and transcendental functions (hyperbolic and inverse hyperbolic functions)
Week 4	<ul style="list-style-type: none">• Numerical integration Introduction, trapezoidal rule and Simpson's rule
Week 5	<ul style="list-style-type: none">• Methods of integration Substitution method, integration by parts
Week 6	<ul style="list-style-type: none">• Methods of integration Trigonometric substitution method
Week 7	<ul style="list-style-type: none">• Methods of integration Integration by partial fraction method.
Week 8	<ul style="list-style-type: none">• Application of definite integrals Areas under the curve, area between curves,
Week 9	<ul style="list-style-type: none">• Application of definite integrals Volume by revolution
Week 10	<ul style="list-style-type: none">• Application of definite integrals Length of curve in the plane, Area of surface of revolution
Week 11	<ul style="list-style-type: none">• Application of definite integrals Center of mass, moment of inertia
Week 12	<ul style="list-style-type: none">• Application of definite integrals Area by polar coordinates
Week 13	<ul style="list-style-type: none">• Matrix Definition, matrix algebra
Week 14	<ul style="list-style-type: none">• Matrix Determinant of matrix, Grammar's rule
Week 15	<ul style="list-style-type: none">• Matrix Inverse of matrix, Gauss Elimination Method
Week 16	Final Exam



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



MODULE DESCRIPTION

وصف مادة ميكانيك هندسي II

Module Information			
معلومات المادة الدراسية			
Module Title	Engineering Mechanics II		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory
Module Code	CE102		<input type="checkbox"/> Lecture
ECTS Credits	6		<input type="checkbox"/> Lab
SWL (hr/sem)	150		<input checked="" type="checkbox"/> Tutorial
			<input type="checkbox"/> Practical
			<input type="checkbox"/> Seminar
Module Level	UGI	Semester of Delivery	2
Administering Department	Civil Engineering	College	Civil Engineering
Module Leader	Assal Tehseen Hussein	e-mail	assal_hussein_eng@uodiyala.edu.iq
Module Leader's Acad. Title	Assistance Professor	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Qassem Hamed Jalut	e-mail	qjalut@uodiyala.edu.iq
Scientific Committee Approval Date		Version Number	1.0



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Engineering Mechanics II

	Engineering Mechanics II
Week 1	Friction
Week 2	Friction
Week 3	Centroids by integration
Week 4	Centroids by integration
Week 5	Centroids of composite areas bodies
Week 6	Centroids of composite areas bodies
Week 7	Moment of Inertia by integration
Week 8	Moment of Inertia by integration
Week 9	Moment of Inertia of composite areas bodies
Week 10	Moment of Inertia of composite areas bodies
Week 11	Polar Moment of Inertia, and Products of Inertia, Mohr circle
Week 12	Polar Moment of Inertia, and Products of Inertia, Mohr circle
Week 13	Kinematics-absolute motion
Week 14	Angular motion
Week 15	Curvilinear motion
Week 16	Preparatory week before the final Exam



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



MODULE DESCRIPTION

وصف مادة الاحصاء الهندسي

Module Information			
معلومات المادة الدراسية			
Module Title	Engineering Statistics		Module Delivery
Module Type	C		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> L Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	CE107		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	UGI	Semester of Delivery	
Administering Department	Civil Engineering	College	College of Engineering
Module Leader	Nahida Hameed Hamza	e-mail	Nahida_mml@uodiyala.edu.iq
Module Leader's Acad. Title	Assistant Lecturer	Module Leader's Qualification	Ph.D.
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date	01/06/2023	Version Number	1.0



Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Engineering Statistics
Week 1	Presentation and Description of Statistical Data (Introduction, Method of presenting data, Frequency distribution)
Week 2	Presentation and Description of Statistical Data (Graphic presentation of frequency distribution, Stem and leaf display, Forms of frequency distribution)
Week 3	Measures of Central Tendency (Arithmetic mean, Median)
Week 4	Measures of Central Tendency (Mode, Comparison between mean, median, and mode)
Week 5	Measures of Central Tendency (Quartiles, Deciles, and Percentiles)
Week 6	Measures of Dispersion (Range, Variance, Standard deviation)
Week 7	Measures of Dispersion (The mean deviation, Coefficient of variation)
Week 8	Measures of Dispersion (Coefficient of quartile variation, Measures of skewness, Kurtosis)
Week 9	Probability (Introduction, Sets, Events)
Week 10	Probability (Probability laws, Counting method, Conditional probability)
Week 11	Probability (Independent events, Baye's theorem)
Week 12	Random Variables, and, Probability Distribution (Random variables, Discrete probability distribution)
Week 13	Random Variables, and, Probability Distribution (Mathematical expectation, Especial probability distribution, Continuous probability distribution)
Week 14	Random Variables, and, Probability Distribution (Normal distribution as an approximate to the binomial distribution, Application on the normal distribution)
Week 15	Random Variables, and, Probability Distribution (Other continuous probability distribution)
Week 16	Preparatory week before the final Exam



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



MODULE DESCRIPTION

وصف مادة اللغة الإنكليزية

Module Information معلومات المادة الدراسية			
Module Title	English language		Module Delivery
Module Type	Basic		<input checked="" type="checkbox"/> Theory Lecture Tutorial Practical Seminar
Module Code	U-104		
ECTS Credits	2		
SWL (hr/sem)	50		
Module Level	UGI	Semester (s) offered	
Administering Department		College	College of Engineering
Module Leader	Inst. Mohammed E. Alwan	e-mail	Essa9781@uodiyala.edu.iq
Module Leader's Acad. Title	Instructor	Module Leader's Qualification	MA
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Review Committee Approval		Version Number	1.0



Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

English language	
Week 1	GRAMMAR, READING , MAIN COURSE SPEAKING, LISTENING , VOCABULARY am/is/are my/your This is... Introduction dialogues, Everyday English dialogues Introductions, Good morning! Practicing introduction dialogues. People meet each other and introduce someone else. How are you? What's this in English? Numbers 1-10 and plurals.
Week 2	He/she/they His/her. Questions Where are they from?, Two people are on holiday in New York. Students ask and answer questions about where people are from. Countries, Numbers 10-20 A set of cities and countries: Brazil, Spain... Adjectives: awful, really good, fantastic, beautiful Nouns: centre, hospital, building, park
Week 3	Verb to be is recycled and extended to include negative and question forms. We're in Las Vegas! Roleplay: in a band. An interview with the band Metro 5. Jobs: a nurse, a doctor.. Personal information: surname, first name, address, married ... Social expressions: I'm sorry, thanks, please...
Week 4	Possessive adjectives. Possessive 's. Has/ have Adjective + noun Irregular Plurals Paddy McNab and his family, My best friend. The alphabet, On the phone, Saying email addresses. Who are they? Listen and identify the people. The family: mother, son.. Describing a friend: very beautiful, really funny...
Week 5	Present Simple: I/you/we/they a/an Adjective + noun Colin Brodie from Dundee. Role play: At a party. Where is Colin? Who is he with? At a party: Flavia and Terry are at a party in London. The lexical set of sports/food/drinks. Languages and nationalities.
Week 6	Present Simple: He/she Question and negatives Adverbs of frequency Prepositions of time Lois Maddox Talking about daily routines, Asking and answering questions about daily routines, Lifestyle questionnaire Listening a phone conversation between Lois and Elliot. Days of the week. The time. Words that go together: watch TV, get up early...
Week 7	Question words Subject pronouns Object pronouns Possessive pronouns This and that A postcard from San Francisco, A holiday postcard. Describing lifestyles, preferences and places, Roleplay: conversations in town. Listening the requests with Can I.....? Adjectives: lovely, terrible, comfortable, friendly... Opposite adjectives: new/old, big/small Places: chemist, post office
Week 8	There is /are Prepositions: in, on, under, next to Vancouver-the best city in the world, What to do and where to go. Talking and asking about rooms and furniture, Giving directions. My home town, Steve talks about living in Vancouver. Rooms and furniture: living room, bedroom ... In and out of town: beach, mountain, sailing,...
Week 9	Was/were born Past simple: irregular verbs It's a Jackson Pollock. Telling a story from pictures, Saying the dates in English. Magalie Dromand, Magalie dromand talks about her family. Saying years People and jobs Irregular verbs Have, do, go: have lunch, do homework, go shopping



Week 10	Past simple: regular and irregular Questions Negatives Ago Dialogues with simple past. Did you have a good weekend? Asking about holidays, A questionnaire, My last holiday, Roleplay: asking and giving directions. Angie and Rick are at work, Jack and Millie's holiday. Weekend activities: go to the cinema, have a meal... Time expressions: on Monday, last night... Sports and leisure: tennis, skiing, windsurfing... Play or go: play tennis, go skiing... Seasons: winter, summer...
Week 11	Can / can't, Adverbs, Adjective + noun Requests and offers The Internet, What can you do on the internet? Talking about what you can do, Talking about everyday problems, Five people talk about what they do on the internet. Verbs: draw, run, drive... Verb+noun: Listen to the radio, chat to friends Adjective+noun: fast car, busy city, dangerous sport Opposite adjectives: dangerous/ safe, old/modern, old/young.
Week 12	I'd like, You are what you eat, Discussion-what is a good diet? Conversation with Adam, Shopping: bread, milk, fruit, Please and thank you Some /any, Like and would like People from different parts of the world describe what they eat. Roleplay: Ordering a meal. Birthday wishes, What people want on their birthday. stamps, cheese, ham... Food: cereal, salad, pasta, fish... In a restaurant: menu, starter, desert, soup, salmon
Week 13	Present continuous, Present simple and present continuous. This week is different, Colin, a millionaire, gives money to homeless teenagers What's the matter? Why don't you? What is Nigel wearing? Nigel is on holiday, What's the matter. Colours: blue, red, green... Clothes: jacket, trousers, shoes and socks... Opposite verbs: buy/sell, love/hate, open/close...
Week 14	Future plans, Revision: question words, tenses. Seven countries in seven days, Life's big events: three people talk about their family, education, work and ambitions. A mini autobiography. Eddie is talking to a friend about his holiday plans, social expressions Transport: travel by bus, coach, motorbike, plane... Revision
Week 15	Irregular verbs, phonetic symbols, consonants and vowels.



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



MODULE DESCRIPTION

وصف مادة مواد البناء

Module Information معلومات المادة الدراسية			
Module Title	Construction Material II		Module Delivery
Module Type	C		x Theory x Lecture Lab x Tutorial Practical Seminar
Module Code	CE104		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	1 1	Semester of Delivery	
Administering Department	Civil Engineering	College	College of Engineering
Module Leader	Zainab Hataf Naji	e-mail	zainab-hataf@uodiyala.edu.iq
Module Leader's Acad. Title	Lec.	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/06/2023	Version Number	1.0



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Construction Material II	
Week 1	(Types of Cement, Types of Portland Cement)
Week 2	Timber(Classification of trees, Structure of wood, Seasoning of Timber)
Week 3	Timber(Defects in Timber, Preservation of Timber)
Week 4	Timber(Mechanical properties of wood)
Week 5	Tiles(Type, Flooring tiles, Roofing tiles, Wall tiles, Drain tiles, Glazed earthenware tiles)
Week 6	Tiles(Cement Tiles)
Week 7	Tiles(Manufacture of tiles, Porcelain vs. Ceramic tile)
Week 8	Metals(Classification, Ferrous metals, Nonferrous metals, cast iron)
Week 9	Metals(Wrought iron, Steel, Low carbon steel – mild steel)
Week 10	Metals(High carbon steel , Factors affecting physical properties of steel)
Week 11	Glass (Characteristics of Glass)
Week 12	Glass(Types of Glass and their Uses in Construction Works)
Week 13	Blocks (Manufacture of blocks, concrete block, Silica blocks)
Week 14	Blocks (Glass block, Silica blocks,lime block,Burned clay block, Hurdy blocks)
Week 15	Bitumen(Introduction, Factors affect on bitumen)



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Construction Material II
Week 1	Test Initial Setting Time for Gypsum
Week 2	Discussion of the results
Week 4	Test Compression for Gypsum
Week 5	Discussion of the results
Week 6	Test the Shape and Dimensions of the Tiles
Week 7	Discussion of the results
Week 8	face Absorption of tiles
Week 9	Discussion of the results
Week 10	Totally Absorption of tiles
Week 10	Discussion of the results
Week 11	Absorbtion of Timber
Week 12	Discussion of the results
Week 13	Perpendicular Compression of Timber
Week 14	Discussion of the results
Week 15	Parallel Compression of Timber



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



MODULE DESCRIPTION

وصف مادة الجيولوجيا الهندسية

Module Information			
معلومات المادة الدراسية			
Module Title	Engineering Geology		Module Delivery
Module Type	C		<input checked="" type="checkbox"/> Theory
Module Code	CE106		<input type="checkbox"/> Lecture
ECTS Credits	4		<input type="checkbox"/> Lab
SWL (hr/sem)	100		<input checked="" type="checkbox"/> L Tutorial
			<input type="checkbox"/> Practical
			<input type="checkbox"/> Seminar
Module Level	UGI	Semester of Delivery	Two
Administering Department	Civil Engineering	College	College of Engineering
Module Leader	Nahida Hameed Hamza	e-mail	Nahida_mml@uodiyala.edu.iq
Module Leader's Acad. Title	Assistant Lecturer	Module Leader's Qualification	Ph.D.
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	1.0



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Engineering Geology
Week 1	Introduction to geology engineering
Week 2	Engineering geology (definition and applications)
Week 3	Crystallography + types
Week 4	Minerals (definition and occurrence)
Week 5	Types of minerals
Week 6	Rocks (definition+ rock cycle)
Week 7	Igneous rocks (Definition and types)
Week 8	Sedimentary rocks (Definition and types)
Week 9	Metamorphic rocks (Definition and types)
Week 10	Weathering of rocks
Week 11	Erosion of rocks
Week 12	Physical properties of rocks (applications)
Week 13	Mechanical properties of rocks (applications)
Week 14	Soil (formation and types)
Week 15	Geotechnical and geological maps
Week 16	Preparatory week before the final Exam



Ministry of Higher Education and
Scientific Research - Iraq
University of Diyala
College of Engineering
Department of Civil Engineering



MODULE DESCRIPTION

وصف مادة اللغة العربية

Module Information			
معلومات المادة الدراسية			
Module Title	اللغة العربية		Module Delivery
Module Type	نظري		<input checked="" type="checkbox"/> Theory
Module Code	UD02		<input checked="" type="checkbox"/> Lecture
ECTS Credits	2		<input checked="" type="checkbox"/> Lab
SWL (hr/sem)	50		<input type="checkbox"/> Tutorial
			<input type="checkbox"/> Practical
			<input type="checkbox"/> Seminar
Module Level	1	Semester of Delivery	2
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Othman Khlan Farhan	e-mail	othaman@uodiyala.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D.
Module Tutor	Name(if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/06/2023	Version Number	1.0



Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

اللغة العربية	
Week 1	توضيح أهمية اللغة العربية وفوائدها بالنسبة للطلاب الجامعي. <u>اللغة</u> ، تفسير وتحليل أول عشرة آيات من سورة الكهف مع بيان فضل السورة وسبب تسميتها وأهم الأوجه البلاغية والنحوية.
Week 2	<u>اللغة</u> ، تفسير وتحليل ثلاثة آيات من سورة الحجرات مع بيان فضل السورة وسبب تسميتها وأهم الأوجه البلاغية والنحوية.
Week 3	<u>الادب</u> ، تحليل ثلاثة عشر سطرًا من قصيدة سفر ايوب في الشعر الحر للشاعر العراقي بدر شاكر السياب مع حياة الشاعر وأهم الأوجه البلاغية والنحوية في القصيدة.
Week 4	<u>الادب</u> ، تحليل ثمانية أبيات في الحماس للشاعر ابي الطيب المتنبي مع حياة الشاعر مع أهم الأوجه البلاغية والنحوية في القصيدة.
Week 5	<u>قواعد اللغة العربية وأهميتها</u> معرفة اقسام الكلام(الاسم والفعل والحرف)وأهم علاماتها.
Week 6	<u>قواعد اللغة العربية</u> :- النكرة والمعرفة، انواع المعارف(العلم) شرح موضوع (اسم العلم والاسم المركب) مع الأمثلة.
Week 7	<u>قواعد اللغة العربية</u> ، (الضمانر)شرح موضوع(ضمانر الرفع والنصب والجر) مع الامثلة.
Week 8	<u>اللغة</u> ، تفسير وتحليل سورة الاعلى مع بيان فضل السورة وسبب تسميتها وأهم الأوجه البلاغية والنحوية.
Week 9	<u>الادب</u> ، تحليل ثمانية أبيات من قصيدة (كن بلسما) للشاعر (اياليا ابي ماضي)مع حياة الشاعر مع اهم الحالات الاعرابية والبلاغية.
Week 10	<u>قواعد اللغة العربية</u> ، شرح موضوع (اسماء الاشارة) مع الأمثلة وحالات الاعراب، شرح موضوع (المعرف بالإضافة) مع الأمثلة وحالات الاعراب.
Week 11	<u>قواعد اللغة العربية</u> ، شرح موضوع (الحال)معرفة الحال وصاحبها وما هي انواع الحال مع الأمثلة وحالات الاعراب.
Week 12	<u>الأملء في اللغة العربية</u> ، علامات الترقيم وأهميتها في اللغة العربية.
Week 13	<u>قواعد اللغة العربية</u> ، شرح موضوع (العدد)معرفة تميز العدد وماهي اقسام العدد مع الأمثلة وحالات الاعراب.
Week 14	<u>الأملء في اللغة العربية</u> ، احكام الهمزة(حمزة الوصل، حمزة القطع، كتابة الهمزة في وسط الكلمة).
Week 15	<u>الأملء في اللغة العربية</u> : احكام كتابة التاء المربوطة والمفتوحة والالف الممدودة والمقصورة.