Ministry of Higher Education وزارة التعليم العالي والبكث العلمي & Scientific Research تامعة بغداد UNIVERSITY OF BAGHDAD **College of Engineering** كلية المندسة **Quality Assurance and Acadmic** شعبة ضمان الترودة والإداء التامعي **Performance Division** الى/ رئاسة جامعة بغداد قسم ضمان الجودة والاداء الجامعي م/ وصف البرنامج الاكاديمي والمقرر الدراسي تحبة طبية.... اشارة الى كتابكم ذي العد 1012 في 2024/1/28 الخاص بدليل وصف البرنامج الاكاديمي والمقرر الدراسي للعام الدراسي (2023/2022). نرفق لكم طيأ نسخة من وصف البرنامج الاكاديمي للاقسام العلمية كافة والمصادق عليها من قبل السيد عميد كلية الهندسة وعلى قرص مدمج (CD). للتفضل بالاطلاع. مع التقدير. المرفقات/ • قرص مدمج (CD). أدغسان حميد عبد المجيد عميد كلية الهندسة

نسخة منه الى/

- مكتب المعيد العميد/ للتفضل بالاطلاع. مع التقدير.
- شعبة ضمان الجودة وتقويم الاداء/ مع الاوليات.

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NO.: DATE: Ministry of Higher Education & Scientific Research UNIVERSITY OF BAGHDAD College of Engineering



وزارة التعليم العاليَّ والب^ورد العلميَّ ج**امعة بغداج** عمادة محلية المندسة الاقسام العلمية

火ッ///ションの د. د ٢ / ٤ / ٢ : التاريخ : ٢ / ٤

NO.: DATE:

> الى / السيد عميد كلية الهندسة المحترم م / الوصف الاكاديمي

> > تحية طيبة...

نرفق لكم طيأ النسخة الورقية لملف الوصف الاكاديمي لقسم الهندسة المدنية للعام الدراسي ٢٠٢٣/٢٠٢٢ لغرض مصادقة الكلية.

للتفضل بالاطلاع والتنسيب مع التقدير

المرفقات///

النسخة الورقية

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Academic Program Description Form University Name: University of Baghdad. Faculty/Institute: College.of Engineering. Scientific Department: ... Civel. Engineering Department. Academic or Professional Program Name: Civil Engineering Science Final Certificate Name: B.Sc. degree in Civil Engineerin Academic System: Angual Description Preparation Date:01 109 2022. File Completion Date: 01/10/2022 Signature: Signature Head of Department Name: Scientific Associate Name: prof. Dr. Amjad Hamad Albayati Asst. prof. Dr. Dhiag Jasim Kadhim Date: Date: The file is checked by Department of Quality Assurance and University Performance Director of the Quality Assurance and University Performance Department: Asd. prof. Dr. Meenvat Altaire Date: Signature: Approval of the Dean

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TEMPLATE FOR PROGRAMME SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

PROGRAMME SPECIFICATION

This program specification provides a concise summary of the main program features and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It is supported by a specification for each course that contributes to the program.

1. Teaching Institution	College of Engineering <u>University of Baghdad</u>
2. University Department/Centre	Civil Engineering Department (CED)
3. Program Title	Civil Engineering Science
4. Title of Final Award	B. Sc. degree in Civil Engineering
5. Modes of Attendance offered	Annual System; There is only one mode of delivery, which is a "Day Program". The students are full time Students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 30- week regular subjects.
6. Accreditation	Ministry of Higher Education & Scientific Research
7. Other external influences	
8. Date of production/revision of this specification	01/10/2022
9. Aims of the Program	

Preparing scientific and professional distinction engineering cadres with an efficiency that qualifies them to provide comprehensive scientific service for the construction process and engineering project management. This included wide range of specializations in construction and bridge engineering, foundations engineering, roads and transportation, engineering management, materials technology, sanitary engineering, sewage networks, water networks, filtering and treatment units and complexes.

The Program also prepares consultants and contributing to provide scientific and engineering consultations, through various channels, including the Engineering Consulting Office at the University of Baghdad, and the cooperation mechanism at the College of Engineering, in addition to direct consultative work with all state ministries and for a very large number of construction, service and investment projects in Iraq and its various institutions This includes design, supervision and management work.

10. Learning Outcomes, Teaching, Learning and Assessment Methods

A. Cognitive goals

A1. Establishing a significant knowledge base regarding the mathematics concepts, numerical analysis and computer programming.

A2. Learning the basic analysis and design methods for different types of structures.

A3. Educating the modern adopted construction and management method for different types of projects.

A4. Studying the mechanical properties of different constitutive construction materials.

B. The skills goals special to the program.

The program planning to build and modified the following

skills: B1. Construction materials test methods.

B2. Survey field applications.

B3. Analysis and design software.

B4. Site management's controls.

Teaching and Learning Methods

1) Lectures.

2) Tutorials.

3) Homework and Assignments.

4) Lab. Experiments.

5) Tests and Exams.

6) In-Class Questions and Discussions.

7) Connection between Theory and Application.

 8) Field Trips. 9) Extracurricular Activities. 10) Seminars. 11) In- and Out-Class oral conservations. 12) Reports, Presentations, and Posters.
Assessment methods
 Examinations, Tests, and Quizzes. Extracurricular Activities. Student Engagement during Lectures. Responses Obtained from Students, Questionnaire about Curriculum and Faculty Member (Instructor).
 C. Affective and value goals C1. Increasing student's self-confidence to perform his (homework, classwork and assessment) within the corresponding time. C2. Encouraging the teamwork between the students. C3. Cooperating the universal activities. C4. Supporting the extra-curricular university activities and urging students to participate in them.
Teaching and Learning Methods
 Homework and Assignments. In-Class Questions and Discussions. Field Trips. Extracurricular Activities. Seminars. In- and Out-Class oral conservations. Reports, Presentations, and Posters.
Assessment methods
 Extracurricular Activities. Student Engagement during Lectures. Responses Obtained from Students. Questionnaire about Curriculum and Faculty Member (Instructor).
D. Conversioned Transformula Shills (other shills relevant to swerlowshillter

D. General and Transferable Skills (other skills relevant to employability and personal development)
D1. Increasing the ability to use the design and analysis software.
D2. Enhancing the skill to perform any significant lab test for different engineering purposes.
D3. Modifying the engineering drawing aptitude.
D4. Improving site investigation skill.

Teaching and Learning Methods

1) Lectures.
2) Tutorials.
3) Homework and Assignments.
4) Lab. Experiments.
5) Connection between Theory and Application.
6) Field Trips.
7) Extracurricular Activities.
8) Seminars.
9) In- and Out-Class oral conservations.
10) Reports, Presentations, and Posters.
Assessment Methods
1. Examinations, Tests, and Quizzes.

- 2. Extracurricular Activities.
- 3. Student Engagement during Lectures.
- 4. Responses Obtained from Students, Questionnaire about Curriculum and Faculty Member (Instructor).

11. Program	n Structure	12. Awards and Credits		
Level/Year	Course or Module Code	Course or Module Title	Cred it ratin g	
First year	GE101	Mathematics	6	Bachelor Degree
First year	CE102	Engineering Mechanics	6	Requires (161) credits
First year	CE103	Engineering Drawing	6	
First year	CE104	Engineering Geology	4	
First year	CE105	Building Materials	3	
First year	CE108	Engineering Statistics	2	
First year	GE109	Computer Programming	4	
First year	GE107	Workshop	2	
First year	GE111	Technical English	2	
First year	GE113	Arabic Language	2	
Second year	GE201	Mathematics	6	
Second year	CE201	Surveying	6	
Second year	CE203	Mechanics of Materials	6	

Second year	GE204	Computer Programming	4
Second year	CE205	Fluid Mechanics	6
Second year	CE206	Building Constructions	4
Second year	CE207	Concrete Technology	4
Second year	GE211	Technical English	2
Second year	GE206	Freedom & Democracy	2
Third year	CE301	Theory of Structures	6
Third year	CE302	Soil Mechanics	6
Third year	CE303	Reinforced Concrete	6
Third year	CE304	Water Resources	4
Third year	CE305	Engineering Analysis	4
Third year	CE306	Traffic Engineering	4
Third year	CE307	Eng. Management and Economy	4
Third year	CE308	Computer Applications	2
Third year	CE309	Numerical Methods	4
Third year	GE311	Technical English	2
Forth year	CE401	Steel Design	4
Forth year	CE402	Foundation Design	4
Forth year	CE403	Transportation Engineering	6
Forth year	CE404	Sanitary & Environmental Engineering	6
Forth year	CE405	Constructional Methods	2
Forth year	CE407	Quantity Surveying	2
Forth year	CE406	Reinforced Concrete Design	4
Forth year	CE409	Hydrology	4
Forth year	CE410	Selected Topics	4
Forth year	GE411	Technical English	2
Forth year	CE408	Engineering Project	4

13. Personal Development Planning 14. Admission criteria. Adopting the admission requirements of the Ministry of Higher Education and Scientific Research. 15. Key sources of information about the program Ministry of Higher Education and Scientific Research. Presidency of the University of Baghdad. Deanship of Engineering College.

4. Examination committee in the Department of Civil Engineering.

					C	urric	ulum	ı Skil	ls M	ap				
	ple	ease tick in the	relevant boxe	es where individual Program Learning Outcomes are										rel
				Program Learning Outco										
Year / Level	Cour se Code	Course Title	Core (C) Title or Option (O)	Core (C)KnowledgeSubject-spectrumTitle orandskillsOption (O)understanding					t-speci cills	fic	T	ìhinkin	g Sl	
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C
First vear	GE101	Mathematics	С	\checkmark								\checkmark	\checkmark	V
yeur	CE102	Engineeri ng Mechanics	С		\checkmark							\checkmark	\checkmark	\mathbf{v}
	CE103	Engineeri ng Drawing	С									\checkmark	\checkmark	V
	CE104	Engineeri ng Geology	С				\checkmark					\checkmark	\checkmark	V
	CE105	Building Materials	С				\checkmark	\checkmark				\checkmark	\checkmark	~
	CE108	Engineeri ng Statistics	С	\checkmark								\checkmark	\checkmark	V
	GE109	Computer	С	\checkmark						\checkmark		\checkmark	\checkmark	v

	Programming								
GE107	Workshop	С					\checkmark	\checkmark	v
GE111	Technical English	С					\checkmark	\checkmark	V
GE113	Arabic Language	С					\checkmark	\checkmark	V

				-	-	-	-	_	-	-	-	-		-
Second vear	GE201	Mathematics	С	\checkmark								\checkmark	\checkmark	V
ycar	CE201	Surveying	С			\checkmark			\checkmark			\checkmark	\checkmark	V
	CE203	Mechanics of Materials	С				\checkmark					\checkmark	\checkmark	V
	GE204	Computer Programmin g	C	\checkmark						\checkmark		\checkmark	\checkmark	V
	CE205	Fluid Mechanics	С		\checkmark							\checkmark	\checkmark	V
	CE206	Building Constructions	С			\checkmark					\checkmark	\checkmark	\checkmark	v
	CE207	Concrete Technology	С				\checkmark	\checkmark				\checkmark	\checkmark	ν
	GE211	Technical English	С									\checkmark	\checkmark	~
	GE206	Freedom & Democracy	С									\checkmark	\checkmark	~
	CE301	Theory of Structures	С		\checkmark							\checkmark	\checkmark	~
	CE302	Soil Mechanics	С		\checkmark			\checkmark				\checkmark	\checkmark	V
	CE303	Reinforced Concrete	С		\checkmark							\checkmark	\checkmark	V
Third	CE304	Water Resources	С		\checkmark							\checkmark	\checkmark	~
year	CE305	Engineeri ng Analysis	C	\checkmark								\checkmark	\checkmark	~
	CE306	Traffic Engineering	С		\checkmark				\checkmark			\checkmark	\checkmark	V
	CE307	Eng. Manageme	С			\checkmark					\checkmark	\checkmark	\checkmark	V

	nt and Economy								
CE308	Computer	С	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	ν

		Applications											
	CE309	Numerical Methods	С	\checkmark							\checkmark	\checkmark	~
	GE311	Technical English	С								\checkmark	\checkmark	~
Forth vear	CE401	Steel Design	С		\checkmark						\checkmark	\checkmark	٧
jeur	CE402	Foundation Design	С		\checkmark						\checkmark	\checkmark	V
	CE40 3	Transportati on Engineering	C		\checkmark			\checkmark			\checkmark	\checkmark	V
	CE404	Sanitary & Environment al Engineering	C		\checkmark			\checkmark			\checkmark	\checkmark	~
	CE405	Construction al Methods	С			\checkmark				\checkmark	\checkmark	\checkmark	V
	CE407	Quantity Surveying	С			\checkmark				\checkmark	\checkmark	\checkmark	~
	CE406	Reinforced Concrete Design	C		\checkmark						\checkmark	\checkmark	\sim
	CE409	Hydrology	С		\checkmark						\checkmark	\checkmark	ν
	CE410	Selected Topics	С								\checkmark	\checkmark	V
	GE411	Technical English	С								\checkmark	\checkmark	V
	CE408	Engineeri ng Project	C		\checkmark	\checkmark	\checkmark				\checkmark	\checkmark	V

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the program specification.

1. Teaching Institution	College of Engineering University of Baghdad
2. University Department/Centre	Civil Engineering Department (CED)
3. Course title/code	FIRST YEAR Mathematics/GE 101
4. Modes of Attendance offered	Annual System ; There is only one mode of delivery, which is a "Day Program". The students are full time students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 30- week regular subjects.
5. Semester/Year	1 st and 2 nd /Academic Year 2022–2023
6. Number of hours tuition (total)	120 hrs. / 4 hrs. per week
7. Date of production/revision of this specification	01/10/2022
8. Aims of the Course	
1. Introduce basic definition and expl	ain the basic concepts that essential

in connection with function and illustrate these concepts by examples. 2. Explain the purpose of function and their application.

3. Enable the student to solve the integration (finite and definite).

4. Introduce basic definition and explain the basic concepts of complex number. These series are a very powerful tool in connection with various problems.
5. Enable the student to calculate area and volume generated by revolving the area.

9. Learning Outcomes, Teaching, Learning and Assessment Method

A- Cognitive goals.

A1. Definition any function.

A2. Graph any function.

A3. Derivative and integration any function.

A4. Integration and application of integration.

A5. Graph a complex number and determinate the roots.

A6. Calculate the value of determinate.

A7. Solved the system of equation using Crammers rule.

A8. Determinate the dot and cross product.

B. The skills goals special to the course.

Teaching and Learning Methods

1) Lectures.

2) Tutorials.

3) Homework and Assignments.

4) Tests and Exams.

5) Class Questions and Discussions.

6) Connection between Theory and Application.

7) Extracurricular Activities.

8) Seminars.

9) In- and Out-Class oral conservations.

10) Reports, Presentations, and Posters.

Assessment methods

- 1. Examinations, Tests, and Quizzes.
- 2. Extracurricular Activities.

3. Student Engagement during Lectures.

4. Responses Obtained from Students, Questionnaire about

Curriculum and Faculty Member (Instructor).

C. Affective and value goals

C1. Increasing student's self-confidence to perform his (homework, classwork and assessment) within the corresponding time.

C2. Encouraging the teamwork between the students.

C3. Cooperating the universal activities.

C4. Supporting the extra-curricular university activities and urging students to participate in them.

Teaching and Learning Methods

1) Homework and Assignments.

2) In-Class Questions and Discussions.

3) Field Trips.

4) Extracurricular Activities.

5) Seminars.

6) In- and Out-Class oral conservations.

7) Reports, Presentations, and Posters.

Assessment methods

1. Extracurricular Activities.

2. Student Engagement during Lectures.

3. Responses Obtained from Students, Questionnaire about Curriculum and Faculty Member (Instructor).

D. General and rehabilitative transferred skills (other skills relevant to employability and personal development)

10. Co	ourse Strue	cture			
Week	Hours	ILOs	Unit/Module or	Teaching	Assessment
			Topic Title	Method	Method
1	4	A1	The interval and	1-10 of	1 - 4 of article (9)
	3the.		equalities	article (9)	
	1tut.				
2	4	A1, A2	Introduction to	1-10 of	1 - 4 of article (9)
	3the.		function	article (9)	
	1tut.				
3	4	A1, A2	Trigonometric	1-10 of	1 - 4 of article (9)
	3the.		and invers	article (9)	
	1tut.		runetions		
4	4	A1, A2	Domain and	1-10 of	1-4 of article (9)
	3the.		range of	article (9)	
	1tut.		functions		

5	4 3the. 1tut.	A1, A2	Graph of Trigonometric functions	1-10 of article (9)	1 – 4 of article (9)
6	4 3the. 1tut.	A1, A2, A3	Derivative of Trigonometric and functions	1-10 of article (9)	1 – 4 of article (9)
7	4 3the. 1tut.	A1, A2, A4	Integration of Trigonometric functions	1-10 of article (9)	1 – 4 of article (9)
8	4 3the. 1tut.	A1, A2	Exponential functions	1-10 of article (9)	1 – 4 of article (9)

9	4 3the. 1tut.	A1, A2	DomainandrangeofExponentialfunction	1-10 of article (9)	1 – 4 of article (9)
10	4 3the. 1tut.	A1, A2	Graph of Exponential function	1-10 of article (9)	1 – 4 of article (9)
11	4 3the. 1tut.	A1, A2, A3	Derivative of Exponential function	1-10 of article (9)	1 – 4 of article (9)
12	4 3the. 1tut.	A1, A2, A4	Integration of Exponential function	1-10 of article (9)	1 – 4 of article (9)
13	4 3the. 1tut.	A1, A2	Logarithmic functions	1-10 of article (9)	1 – 4 of article (9)
14	4 3the. 1tut.	A1, A2	Domain and range of Logarithmic functions	1-10 of article (9)	1 – 4 of article (9)

15	4 3the. 1tut.	A1, A2	Graph of Logarithmic functions	1-10 of article (9)	1 – 4 of article (9)
16	4 3the. 1tut.	A1, A2, A3	Derivative of Logarithmic functions	1-10 of article (9)	1 – 4 of article (9)
17	4 3the. 1tut.	A1, A2, A4	Integration of Logarithmic functions	1-10 of article (9)	1 – 4 of article (9)

18	4 3the. 1tut.	A1, A2	Hyperbolic Trigonometric and invers functions	1-10 of article (9)	1 – 4 of article (9)
19	4 3the. 1tut.	A1, A2	DomainandrangeofHyperbolicfunctions	1-10 of article (9)	1 – 4 of article (9)
20	4 3the. 1tut.	A1, A2	Graph of Hyperbolic functions	1-10 of article (9)	1 – 4 of article (9)
21	4 3the. 1tut.	A1, A2, A3	Derivative of Hyperbolic functions	1-10 of article (9)	1 – 4 of article (9)
22	4 3the. 1tut.	A1, A2, A4	Integration of Hyperbolic functions	1-10 of article (9)	1 – 4 of article (9)
23	4 3the. 1tut.	A3, A4	Method of integration	1-10 of article (9)	1 – 4 of article (9)
24	4 3the. 1tut.	A3, A4	Method of integration	1-10 of article (9)	1 – 4 of article (9)

25	4 3the.	A1, A3	Application of derivative	1-10 of article (9)	1 – 4 of article (9)
	1tut.				
26	4	A1, A4	The area	1-10 of	1-4 of article (9)
	3the.			article (9)	
	1tut.				

27	4	A1, A4	The volume	1-10 of	1 - 4 of article (9)
	3the.			article (9)	
	1tut.				
28	4	A1,	Complex number	1-10 of	1 - 4 of article (9)
	3the.	A6, A7		article (9)	
	1tut.				
29	4	A1,	The determinate	1-10 of	1 - 4 of article (9)
	3the.	A6, A7	and matrix	article (9)	
	1tut.				
30	4	A1,	Liner system of	1-10 of	1 - 4 of article (9)
	3the.	A6, Δ7 Δ8	equation	article (9)	
	1tut	117,110			

11. Infrastructure						
1. Books Required reading:	Textbook : Calculus by Thomas					
2. Main references (sources)						
A- Recommended books and references (scientific journals, reports).	Textbook : Calculus by Thomas					
B-Electronic references, Internet sites						

1. Teaching Institution	College of Engineering University of Baghdad				
2. University Department/Centre	Civil Engineering Department (CED)				
3. Course title/code	FIRST YEAR Engineering Mechanics / CE 102				
4. Modes of Attendance offered	Annual System; There is only one mode of delivery, which is a "Day Program". The students are full time students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 30-week regular subjects.				
5. Semester/Year	1 st and 2 nd /Academic Year 2022–2023				
6. Number of hours tuition (total)	120 hrs. / 4 hrs. per week				
7. Date of production/revision of this specification	01/10/2022				
8. Aims of the Course					
 Introduce basic definitions and introductory concepts of engineering mechanics/statics Analyze forces and find out the resultant forces in two and three dimension Differentiate between various type of supports and draw free-body-diagram, Compute the reaction force in simple structure (beam, frame, truss) 4. Obtain center of gravity and centroid for deferent engineering shapes & moment of inertia for deferent sections 					

9. Learning Outcomes, Teaching, Learning and Assessment Method

A- Cognitive goals.

A1. Analyze forces and moments in two and three dimensions,

A2. Find out the resultant forces in two and three dimensions

A3. Draw free-body-diagram, Compute the reaction force in simple structure (beam, frame, truss)

A4. Study Mechanism and laws of friction

A5. Obtain and centroid for deferent engineering shapes.

A6. Obtain moment of inertia for deferent engineering shapes

A7. Understand the engineering applications that evolve dynamics. A8.

Solve engineering problems involving objects moving along a linear

path.

A9. Simplify engineering problems involving objects moving along a curved path.

A10. Recognize and deal with projectile problems.

A11. Write the equation of motion of a moving object.

A12. Solve problems involving the force in accelerated bodies.

A13. Apply the theorem of conservation of energy to solve kinetic problems

B. The skills goals special to the course.

Teaching and Learning Methods

1) Lectures.

- 2) Tutorials.
- 3) Homework and Assignments.
- 4) Tests and Exams.
- 5) In-Class Questions and Discussions.
- 6) Connection between Theory and Application.
- 7) Extracurricular Activities.
- 8) Seminars.
- 9) In- and Out-Class oral conservations.

10) Reports, Presentations, and Posters.

Assessment methods

- 1. Examinations, Tests, and Quizzes.
- 2. Extracurricular Activities.
- 3. Student Engagement during Lectures.
- 4. Responses Obtained from Students, Questionnaire about Curriculum
- and Faculty Member (Instructor).

C. Affective and value goals

C1. Increasing student's self-confidence to perform his

(homework, classwork and assessment) within the corresponding time.

C2. Encouraging the teamwork between the students.

C3. Cooperating the universal activities.

C4. Supporting the extra-curricular university activities and urging students to participate in them.

Teaching and Learning Methods

1) Homework and Assignments.

2) In-Class Questions and Discussions.

3) Field Trips.

4) Extracurricular Activities.

5) Seminars.

6) In- and Out-Class oral conservations.

7) Reports, Presentations, and Posters.

Assessment methods

1. Extracurricular Activities.

2. Student Engagement during Lectures.

3. Responses Obtained from Students, Questionnaire about Curriculum

and Faculty Member (Instructor).

D. General and rehabilitative transferred skills (other skills relevant to employability and personal development)

10. Course Structure						
Week	Hours	ILOs	Unit/Module or	Teaching	Assessment	
			Topic Title	Method	Method	
1	4 Static s 3the.	A1	Introduction to engineering mechanics: statics	1-10 of article (9)	1 – 4 of article (9)	

	<i>Dyn.</i> 1the.	A7	Introduction to engineering mechanics: Dynamics		
2	4 Static s 2the. 1tut	A1	Resolution of forces into components(two dimensions)	1-10 of article (9)	1 – 4 of article (9)
	<i>Dyn</i> . 1tut.	A7	General Principles in Engineering Mechanics/ Dynamics		
3	4 Static s 3the.	A1	Resolution of forces into components(two dimensions)	1-10 of article (9)	1 – 4 of article (9)
	Dyn. 1the.	A7	Kinematics of a Particle; Introduction		
4	4 Static s 2the. 1tut	A1	Principle of Moments and Couples	1-10 of article (9)	1 – 4 of article (9)

	Dyn. 1tut.	A8	Kinematics of a Particle; Introduction		
5	4 Static s 3the.	A1	Resolution of forces into components(thr ee dimensions)	1-10 of article (9)	1 – 4 of article (9)

	<i>Dyn</i> . 1the.	A8	Rectilinear Kinematics: Continuous Motion		
6	4 Static s 2the. 1tut	A1	PrincipleofMomentsandCouples(threedimensions)	1-10 of article (9)	1 – 4 of article (9)
	Dyn. 1tut.	A8	Rectilinear Kinematics: Continuous Motion		
7	4 Static s 3the.	A2	Result of coplanar forces system(concurrent, parallel and non- concurrent and non parallel)	1-10 of article (9)	1 – 4 of article (9)
	Dyn. 1the.	A8	Rectilinear Kinematics: Continuous Motion		
8	4 Static s 2the. 1tut	A2	Result of coplanar forces system(concurrent, parallel and non- concurrent and non parallel)	1-10 of article (9)	1 – 4 of article (9)

	Dyn. 1tut.	A8	Rectilinear Kinematics: Erratic Motion		
9	4 Static s 3the.	A2	Result of coplanar forces system(concurrent, parallel and non- concurrent and non parallel)	1-10 of article (9)	1 – 4 of article (9)

	<i>Dyn.</i> 1the.	A8	Rectilinear Kinematics: Erratic Motion		
10	4 Static s 2the. 1tut	A2	Result of Non coplanar forces system (concurrent, parallel and non- concurrent and non parallel)	1-10 of article (9)	1 – 4 of article (9)
	Dyn. 1tut.	A8	Rectilinear Kinematics: Erratic Motion		
11	4 Static s 3the.	A2	Result of Non coplanar forces system (concurrent, parallel and non- concurrent and non parallel)	1-10 of article (9)	1 – 4 of article (9)
	Dyn. 1the.	A8	Rectilinear Kinematics: Erratic Motion		

12	4 Static s 2the. 1tut	A3	Equilibrium and Free Body Diagram	1-10 of article (9)	1 – 4 of article (9)
	Dyn. 1tut.	A9	Curvilinear Motion: Rectangular Components		
13	4 Static s 3the.	A3	Analysis of Frames in the Plane	1-10 of article (9)	1 – 4 of article (9)

	<i>Dyn.</i> 1the.	A9	Curvilinear Motion: Rectangular Components		
14	4 Static s 2the. 1tut	A3	Analysis of Frames in the Plane	1-10 of article (9)	1 – 4 of article (9)
	Dyn. 1tut.	A10	Curvilinear Motion: Motion of a Projectile		
15	4 Static s 3the	A3	Analysis of Frames in the Plane	1-10 of article (9)	1 – 4 of article (9)
	Dyn. 1the.	A10	Curvilinear Motion: Motion of a Projectile		
16	4 Static s	A3	Analysis of Trusses in the Plane	1-10 of article (9)	1 - 4 of article (9)

	2the. 1tut				
	Dyn. 1tut.	A10	Curvilinear Motion: Motion of a Projectile		
17	4	A3	Analysis of Trusses in the Plane	1-10 of article (9)	1 – 4 of article (9)
	Static s				
	3the.				
	<i>Dyn</i> . 1the.	A10	Curvilinear Motion: Motion of a		

			Projectile		
18	4 Static s 2the. 1tut	A3	Analysis of Frames and Truss in the Space	1-10 of article (9)	1 – 4 of article (9)
	Dyn. 1tut.	A11	Kinetics of a Particle Newton's Second Law		
19	4 Static s 3the.	A4	Friction	1-10 of article (9)	1 – 4 of article (9)
	<i>Dyn</i> . 1the.	A11	KineticsofaParticleTheEquation ofMotion		
20	4 Static s 2the. 1tut	A4	Friction	1-10 of article (9)	1 – 4 of article (9)

	<i>Dyn</i> . 1tut.	A11	KineticsofaParticleTheEquation ofMotion		
21	4 Static s 3the.	A4	Friction	1-10 of article (9)	1 – 4 of article (9)
	Dyn. 1the.	A12	Equations of Motion: Rectangular Coordinates		

22	4 Static s 2the.	A5	Centroids by integration	1-10 of article (9)	1 – 4 of article (9)
	Dyn.	A12	Equations of Motion: Rectangular Coordinates		
23	4 Static s 3the.	A5	Centroids by integration	1-10 of article (9)	1 – 4 of article (9)
	<i>Dyn</i> . 1the.	A12	Equations of Motion: Force and Acceleration		
24	4 Static s 2the. 1tut	A5	Centroids of composite areas bodies	1-10 of article (9)	1 – 4 of article (9)
	Dyn.	A12	Equations of Motion: Force and		

	1tut.		Acceleration		
25	4	A6	Centroids of	1-10 of	1 – 4 of
			composite areas	article (9)	article (9)
			bodies		
	Static				
	S				
	3the.				
	Dyn.	A12	Equations of		
	1the		Motion: Force and		
	1 110.		Acceleration		

26	4 Static s 2the. 1tut	A6	Moment of Inertia by integration	1-10 of article (9)	1 – 4 of article (9)
	<i>Dyn</i> . 1tut.	A12	Equations of Motion: Force and Acceleration		
27	4 Static s 3the.	A6	Moment of Inertia by integration	1-10 of article (9)	1 – 4 of article (9)
	<i>Dyn</i> . 1the.	A13	Kinetics of a Particle: the work of a force		
28	4 Static s 2the. 1tut	A6	Moment of Inertia of composite areas bodies	1-10 of article (9)	1 – 4 of article (9)
	<i>Dyn</i> . 1tut.	A13	KineticsofaParticle:Principlesof workand energy		

29	4 Static s 3the.	A6	Moment of Inertia of composite areas bodies	1-10 of article (9)	1 – 4 of article (9)
	<i>Dyn</i> . 1the.	A13	Conservation of Energy		

30	4	A6	Polar Moment of	1-10 of	1-4 of
	Static s		Inertia, and Products of Inertia, Mohr	article (9)	article (9)
	2the.		circle		
	1tut				
	Dyn.	A13	Conservation of		
	1tut.		Energy		

11. Infrastructure	
1. Books Required reading:	 Engineering Mechanics: Statics & Dynamics 13th edition. By R. C. Hibbeler, 2015 Engineering Mechanics: Statics 6th edition by J.L. Meriam & L.G. Kraige, 2007 Engineering Mechanics: Statics & Dynamics 3rd edition. By Archie Highdon & William B. Stiles, 1968
2. Main references (sources)	
A- Recommended books and references (scientific journals, reports).	
B-Electronic references, Internet sites	

	12.	The	development	of the	curricul	lum plar	1
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1. Teaching Institution	College of Engineering University of Baghdad
2. University Department/Centre	Civil Engineering Department

	(CED)			
3. Course title/code	FIRST YEAR Engineering Drawing / CE 103			
4. Modes of Attendance offered	Annual System; There is only one mode of delivery, which is a "Day Program". The students are full time students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 30-week regular subjects.			
5. Semester/Year	1 st and 2 nd /Academic Year 2022–2023			
6. Number of hours tuition (total)	150 hrs. / 5 hrs. per week			
7. Date of production/revision of this specification	01/10/2022			
8. Aims of the Course				
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.				

9. Learning Outcomes, Teaching, Learning and Assessment Method

A- Cognitive goals.

A1. Sketch engineering components.

A2. Interpret engineering drawings that comply with drawing standards.

A3. Produce engineering drawings.

B. The skills goals special to the course.

Teaching and Learning Methods

- 1) Lectures.
- 2) Tutorials.
- 3) Homework and Assignments.
- 4) Lab. Experiments.
- 5) Tests and Exams.
- 6) In-Class Questions and Discussions.

- 7) Connection between Theory and Application.
- 8) Field Trips.
- 9) Extracurricular Activities.
- 10) Seminars.
- 11) In- and Out-Class oral conservations.
- 12) Reports, Presentations, and Posters.

Assessment methods

- 1. Examinations, Tests, and Quizzes.
- 2. Extracurricular Activities.
- 3. Student Engagement during Lectures.
- 4. Responses Obtained from Students, Questionnaire about
- Curriculum and Faculty Member (Instructor).

C. Affective and value goals

C1. Increasing student's self-confidence to perform his (homework, classwork and assessment) within the corresponding

time.

C2. Encouraging the teamwork between the students.

C3. Cooperating the universal activities.

C4. Supporting the extra-curricular university activities and urging

students to participate in them.

Teaching and Learning Methods

1) Homework and Assignments.

2) In-Class Questions and Discussions.

3) Field Trips.

4) Extracurricular Activities.

5) Seminars.

6) In- and Out-Class oral conservations.

7) Reports, Presentations, and Posters.

Assessment methods

1. Extracurricular Activities.

2. Student Engagement during Lectures.

3. Responses Obtained from Students, Questionnaire about Curriculum and Faculty Member (Instructor).

D. General and rehabilitative transferred skills (other skills relevant to employability and personal development)

D1. Modifying the engineering drawing aptitude.

10. Co	10. Course Structure				
Week	Hours	ILOs	Unit/Module or	Teaching	Assessment
			Topic Title	Method	Method
1	5	A1	Introduction	1-12 of	1 - 4 of article (9)
	1the.			article (9)	
	4exp.				
2	5	A1	Geometric Typing	1-12 of	1 - 4 of article (9)
	1the.			article (9)	
	4exp				
3	5	A1	Lines	1-12 of	1 - 4 of article (9)
	1the.			article (9)	
	4exp				
4	5	A1	Lines	1-12 of	1 - 4 of article (9)
	1the.			article (9)	
	4exp				
5	5	A1	Geometric	1-12 of	1 - 4 of article (9)
	1the.		Processing	article (9)	
	4exp				
6	5	A2, A3	Geometric	1-12 of	1 - 4 of article (9)
	1the.		Processing	article (9)	
	4exp				
7	5	A2, A3	Geometric	1-12 of	1 - 4 of article (9)
	1the.		Processing	article (9)	
	4exp				
8	5	A2, A3	Theory of	1-12 of	1 - 4 of article (9)
	1the.		Projection	article (9)	
	4exp				

9	5	A2, A3	Theory of Projection	1-12 of article (9)	1 - 4 of article (9)
	1the.		riojection		
	4exp				
10	5	A2, A3	Theory of	1-12 of	1 - 4 of article (9)
	1the.		Projection	article (9)	
	4exp				
11	5	A2, A3	Theory of	1-12 of	1 – 4 of article (9)
	1the.		Projection	article (9)	
	4exp				
12	5	A2, A3	Theory of	1-12 of	1-4 of article (9)
	1the.		Projection	article (9)	
	4exp				
13	5	A2, A3	Theory of	1-12 of	1 - 4 of article (9)
	1the.		Projection	article (9)	
	4exp				
14	5	A2, A3	Theory of	1-12 of	1 - 4 of article (9)
	1the.		Projection	article (9)	
	4exp				
15	5	A2, A3	Theory of	1-12 of	1 - 4 of article (9)
	1the.		Projection	article (9)	
	4exp				
16	5	A2, A3	Dimensions	1-12 of	1 - 4 of article (9)
	1the.			article (9)	
	4exp				
17	5	A2, A3	Dimensions	1-12 of	1 - 4 of article (9)
	1the.			article (9)	
	4exp				

18	5	A2, A3	Sections	1-12 of	1 - 4 of article (9)
	1the.			article (9)	
	4exp				

19	5	A2, A3	Sections	1-12 of	1 – 4 of article (9)
	1the.			article (9)	
	4exp				
20	5	A2, A3	Sections	1-12 of	1 - 4 of article (9)
	1the.			article (9)	
	4exp				
21	5	A2, A3	Sections	1-12 of	1 - 4 of article (9)
	1the.			article (9)	
	4exp				
22	5	A2, A3	Pictorial Drawing	1-12 of	1 - 4 of article (9)
	1the.			article (9)	
	4exp				
23	5	A2, A3	Pictorial Drawing	1-12 of	1 - 4 of article (9)
	1the.			article (9)	
	4exp				
24	5	A2, A3	Pictorial Drawing	1-12 of	1 - 4 of article (9)
	1the.			article (9)	
	4exp				
25	5	A2, A3	Pictorial Drawing	1-12 of	1 - 4 of article (9)
	1the.			article (9)	
	4exp				
26	5	A2, A3	Pictorial Drawing	1-12 of	1-4 of article (9)
	1the.			article (9)	
	4exp				

27	5 1the. 4exp	A2, A3	Structural Drawing	1-12 of article (9)	1 – 4 of article (9)
28	5 1the. 4exp	A2, A3	Structural Drawing	1-12 of article (9)	1 – 4 of article (9)

29	5 1the. 4exp	A2, A3	Structural Drawing	1-12 of article (9)	1 – 4 of article (9)
30	5 1the. 4exp	A2, A3	Structural Drawing	1-12 of article (9)	1 – 4 of article (9)

11. Infrastructure	
1. Books Required reading:	 "Principle of technical drawing" by Frederick E. Giesecke, Alva Mitchell, Henry Cecil Spencer, Ivan Hill, John Thomas, James E. Novak, 1992. "Graphics Drawing workbook" by Gray R. Bertoline, 2000
2. Main references (sources)	- Engineering drawing by Abed Alrasul Al Khafaf, 1986.
A- Recommended books and references (scientific journals, reports).	
B-Electronic references, Internet sites	

12. The development of the curriculum plan

1. Teaching Institution	College of Engineering University of Baghdad
2. University Department/Centre	Civil Engineering Department (CED)
3. Course title/code	FIRST YEAR Engineering Geology / CE 104

4. Modes of Attendance offered	Annual System ; There is only one mode of delivery, which is a "Day Program". The students are full time students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 30- week regular subjects.
5. Semester/Year	1 st and 2 nd /Academic Year 2022–2023
6. Number of hours tuition (total)	90 hrs. / 3 hours per week
7. Date of production/revision of this specification	01/10/2022
8. Aims of the Course	
 Introduce basic definitions and introductory concepts general geology and engineering geology Explain application of geology in civil engineering as well as the different types of geology Define each type of the given minerals as well as their properties 4.Explanation of the factors that affecting the earth crust Identify the different types of rocks with the structural geology of different rocks Study the physical and mechanical properties of rocks Identify the different factors that affecting the rock properties Calculating the normal stress and strain of rocks and soil samples 9.Identify soils and explain its physical and mechanical properties (Shear strength) To classify the different soil types according to USCS I.Identify all factors that affecting the earth crust and its components (internal and external forces) Calculating the effective stresses, internal stresses and external stresses from footings. To classify earthquake according to Mercalli or Richter scales 16.To understand the concept of geophysical investigations. 	

17.To understand the concept of geological map.

9. Learning Outcomes, Teaching, Learning and Assessment Method

A- Cognitive goals.	
A1.At the end of the class, the student will be able to:	
A2. The student would make a separation between general geology and	
engineering geology	
A3. The student will know the application of geology in civil engineering as	
well as the different types of geology	
A4. The student would be able to define each type of the given minerals as	
A 5. The student would be able to calculate the normal stress and strain of	
rocks and soil samples	
A6. The student would be able to identify soils and explain its physical and mechanical properties (Shear strength)	
A7. To classify the different soil types according to USCS	
A8. Identify all factors that affecting the earth crust and its components	
(internal and external forces)	
A9. Calculating the effective stresses, internal stresses and external stresses	
from footings.	
A10. To understand the concept of ground water	
A11. To understand the concept of geophysical investigations	
A12. To understand the concept of geological map	
B. The skills goals special to the course.	
Teaching and Learning Methods	
1. Lectures.	
2. Tutorials.	
3. Homework and Assignments.	
4. Lab. Experiments.	
5. Tests and Exams.	
6. In-Class Questions and Discussions.	
7. Connection between Theory and Application.	
8. Field Irips.	
9. Extracumcular Activities.	
10. Schillars. 11. In- and Out-Class oral conservations	
12. Reports. Presentations, and Posters.	

Assessment methods

- 1. Examinations, Tests, and Quizzes.
- 2. Extracurricular Activities.
- 3. Student Engagement during Lectures.
- 4. Responses Obtained from Students, Questionnaire about Curriculum and
- Faculty Member (Instructor).
C. Affective and value goals

C1. Increasing student's self-confidence to perform his

(homework, classwork and assessment) within the corresponding time.

C2. Encouraging the teamwork between the students.

C3. Cooperating the universal activities.

C4. Supporting the extra-curricular university activities and urging students to participate in them.

Teaching and Learning Methods

1) Homework and Assignments.

2) In-Class Questions and Discussions.

3) Field Trips.

4) Extracurricular Activities.

5) Seminars.

6) In- and Out-Class oral conservations.

7) Reports, Presentations, and Posters.

Assessment methods

1. Extracurricular Activities.

2. Student Engagement during Lectures.

3. Responses Obtained from Students, Questionnaire about Curriculum and Faculty Member (Instructor).

D. General and rehabilitative transferred skills (other skills relevant to employability and personal development)

D1. Improving site investigation skills that help the students to distinguish the differences among soils and rocks types and properties.

10. Course Structure						
Week	Hours	ILOs	Unit/Module or	Teaching	Assessment	
			Topic Title	Method	Method	
1	3	A2, A3	Introduction to	1-12 of	1 - 4 of article (9)	
	2 the.		geology	article (9)		
	1tut					

2	3	A2, A3	Types of geology	1-12 of	1 - 4 of article (9)
	2 the.			article (9)	
	1tut				
3	3	A2, A3	Engineering	1-12 of	1 - 4 of article (9)
	2 the.		geology	article (9)	
	1tut		applications)		
4	3	A2, A3	Crystallography	1-12 of	1 – 4 of article (9)
	2 the.			article (9)	
	1tut				
5	3	A2, A3	Crystallography	1-12 of	1 - 4 of article (9)
	2 the.		+ types	article (9)	
	1tut				
6	3	A2, A3	Minerals	1-12 of	1 – 4 of article (9)
	2 the.		(definition and occurrence)	article (9)	
	1tut		occurrence)		
7	3	A2, A3	Types of minerals	1-12 of	1-4 of article (9)
	2 the.			article (9)	
	1tut				
8	3	A2, A3	Types of minerals	1-12 of	1-4 of article (9)
	2 the.			article (9)	
	1tut				

9	3 2 the. 1tut	A2, A3	Rocks (definition+ rock cycle)	1-12 of article (9)	1 – 4 of article (9)
10	3 2 the. 1tut	A2, A3	Igneous rocks (Definition and types)	1-12 of article (9)	1 – 4 of article (9)
11	3 2 the. 1tut	A2, A3	Igneous rocks(types	1-12 of article (9)	1 – 4 of article (9)

12	3 2 the. 1tut	A2, A3	Sedimentary rocks (Definition and types)	1-12 of article (9)	1 – 4 of article (9)
13	3 2 the. 1tut	A2, A3	Sedimentary rocks (types)	1-12 of article (9)	1 – 4 of article (9)
14	3 2 the. 1tut	A2, A3	Metamorphic rocks (Definition and types)	1-12 of article (9)	1 – 4 of article (9)
15	3 2 the. 1tut	A2, A3	Metamorphic rocks (types)	1-12 of article (9)	1 – 4 of article (9)
16	3 2 the. 1 tut	A2, A3	Structural Geology (Faults)	1-12 of article (9)	1 – 4 of article (9)
17	3 2 the. 1tut	A2, A3	Structural Geology (folds)	1-12 of article (9)	1 – 4 of article (9)

18	3 2 the.	A2, A3	Weathering of rocks	1-12 of article (9)	1 - 4 of article (9)
	1tut				
19	3	A1,	Erosion of rocks	1-12 of	1 - 4 of article (9)
	2 the.	A2, A3		article (9)	
	1tut				
20	3	A1,	Works of rivers	1-12 of	1 - 4 of article (9)
	2 the.	A2, A3	and water	article (9)	
	1tut				
21	3	A1,	Works of air and	1-12 of	1 - 4 of article (9)
	2 the.	A2, A3	glaciers	article (9)	
	1tut				

22	3 2 the. 1tut	A1, A2, A3	Work of sea and groundwater	1-12 of article (9)	1 – 4 of article (9)
23	3 2 the. 1tut	A1, A2, A3	Work of organics + river	1-12 of article (9)	1 – 4 of article (9)
24	3 2 the. 1tut	A1, A2, A3	Physical properties of rocks (applications)	1-12 of article (9)	1 – 4 of article (9)
25	3 2 the. 1tut	A1, A2, A3	Physical properties of rocks (applications)	1-12 of article (9)	1 – 4 of article (9)
26	3 2 the. 1 tut	A1, A2, A3	Mechanical properties of rocks (applications)	1-12 of article (9)	1 – 4 of article (9)

27	3 2 the. 1 tut	A1, A2, A3	Soil (formation and types)	1-12 of article (9)	1 – 4 of article (9)
28	3 2 the. 1tut	A1, A2, A3	Stresses within soil media and external stresses (point load)	1-12 of article (9)	1 – 4 of article (9)
29	3 2 the. 1tut	A1, A2, A3	Geotechnical and geological maps	1-12 of article (9)	1 – 4 of article (9)
30	3 2 the. 1tut	A1, A2, A3	Geotechnical and geological maps	1-12 of article (9)	1 – 4 of article (9)

1. Books Required reading:	 K. M. BANGAR (1995) :"A textbook of Geology: General and Engineering". Standard Publisher Distributors,Lumos Offset Press, Delhi, India. MUNI BUDHU (2011):" Soil Mechanics and Foundations". 3rd edition, John Wily & Sons, Inc., USA.
2. Main references (sources)	
A- Recommended books and references (scientific journals, reports).	
B-Electronic references, Internet sites	

1. Teaching Institution	College of Engineering University of Baghdad
2. University Department/Centre	Civil Engineering Department (CED)
3. Course title/code	FIRST YEAR Building Materials / CE 105
4. Modes of Attendance offered	Annual System ; There is only one mode of delivery, which is a "Day Program". The students are full time students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 30- week regular subjects.
5. Semester/Year	1 st and 2 nd /Academic Year 2022–2023
6. Number of hours tuition (total)	90 hrs. / 3 hrs. per week
7. Date of production/revision of this specification	01/10/2022

8. Aims of the Course

1. Introduce basic definition and explain the basic concepts that essential in connection with materials and illustrate these concepts by examples and tests.

2. Explain the uses of the materials and their applications.

3. Enable the student to analyze the material (chemically and physically). 4.

Introduce basic definition and explain the basic concepts of materials available in the local market.

5. Enable the student to perform tests on the studied materials

9. Learning Outcomes, Teaching, Learning and Assessment Method

A- Cognitive goals.

A1. Define any building materials.

A2. Graph basic relationships considering materials properties.

A3. Know the raw and ingredients of the materials.

A4. Tests materials for basic and most important experiments.

A5. Know the standards related to the specifications of the

materials. A6. Calculate the mathematic relations for some materials.

A7. Specify the quality of good material theoretically and practically.

B. The skills goals special to the course.

B1. Construction materials test methods.

Teaching and Learning Methods

1) Lectures.

2) Tutorials.

3) Homework and Assignments.

4) Lab. Experiments.

5) Tests and Exams.

6) In-Class Questions and Discussions.

7) Connection between Theory and Application.

8) Field Trips.

9) Extracurricular Activities.

10) Seminars.

11) In- and Out-Class oral conservations.

12) Reports, Presentations, and Posters.

Assessment methods

 Examinations, Tests, and Quizzes. Extracurricular Activities. Student Engagement during Lectures. Responses Obtained from Students. preparing reports about the lab tests
 C. Affective and value goals C1. Increasing student's self-confidence to perform his (homework, classwork and assessment) within the corresponding time. C2. Encouraging the teamwork between the students. C3. Cooperating the universal activities. C4. Supporting the extra-curricular university activities and urging students to participate in them.
Teaching and Learning Methods
 Homework and Assignments. In-Class Questions and Discussions. Field Trips. Extracurricular Activities

Assessment methods
1. Extracurricular Activities.

6) In- and Out-Class oral conservations.

7) Reports, Presentations, and Posters.

5) Seminars.

2. Student Engagement during Lectures.

3. Responses Obtained from Students, Questionnaire about Curriculum and Faculty Member (Instructor).

C. General and rehabilitative transferred skills (other skills relevant to employability and

D. personal development)

D1. Enhancing the skills to perform any significant lab test for different engineering purposes.

Week	hours	ILOs	Unit/Module or Topic Title	Teaching method	Assessment method
1	3 1the. 1tut. 1exp.	A1- A7	Introduction of Construction Materials Science 1. Types of building 2. Mechanical properties of materials 3. Materials properties	1-12 of article (9)	1-5 of article (9)
2	3 1the. 1tut. 1exp.	A1- A7	Bonding Material Gypsum plaster 1. Introduction of Gypsum plaster 2.Manufacture of gypsum plaster 3.Gypsm products : a. Plaster of Paris b.Ordina ry plaster c.Techni cal plaster d.Anhyd rous plaster	1-12 of article (9)	1-5 of article (9)

			e. Keen cement		
3	3 1the. 1tut. 1exp.	A1- A7	Bonding Material Lime 1. Definition and classification a. Quick lime b. Hydrated lime 2. Manufacture of lime - Theory of calcinations 3. Properties of quick lime 4. Properties of hydrated lime	1-12 of article (9)	1-5 of article (9)
4	3 1the. 1tut. 1exp.	A1- A7	Bricks Classification of bricks according to constituent raw material: 1. Clay bricks 1.1 Raw materials 1.2 Composition of good clay brick 1-3 Harmful ingredients in clay bricks 1.4 Manufacture of bricks: 1.5 Classification of clay bricks in	1-12 of article (9)	1-5 of article (9)

			accordance with Iraqi standard No. 25/1988		
5	3 1the. 1tut. 1exp.	A1- A7	Bricks 1.6 Properties of bricks: 1.6.1 Compressive strength 1.6.2 Water absorption 1.6.3 Effloresce	1-12 of article (9)	1-5 of article (9)
6	3 1the. 1tut. 1exp.	A1- A7	 2. Sand - Lime bricks: .2 Mix proportion: 2.3 Manufacture: 2.4 Properties of lime sand brick 3. Concrete bricks 3.2 Properties of concrete bricks 	1-12 of article (9)	1-5 of article (9)
7	3 1the. 1tut. 1exp.	b A1- A7	Blocks 1.Introduction	1-12 of article (9)	1-5 of article (9)
8	3 1the. 1tut. 1exp.	A1- A7	2.Types of blocks	1-12 of article (9)	1-5 of article (9)

9	3 1the. 1tut. 1exp.	A1- A7	3.Manufactures of blocks	1-12 of article (9)	1-5 of article (9)
10	3 1the. 1tut. 1exp.	A1- A7	4.Uses of blocks	1-12 of article (9)	1-5 of article (9)
11	3 1the. 1tut. 1exp.	A1- A7	-solid blocks -hollow blocks	1-12 of article (9)	1-5 of article (9)
12	3 1the. 1tut. 1exp.	A1- A7	-itonic blocks -thermal blocks	1-12 of article (9)	1-5 of article (9)
13	3 1the. 1tut. 1exp.	A1- A7	-glass blocks -hourdy blocks	1-12 of article (9)	1-5 of article (9)
14	3 1the. 1tut. 1exp.	A1- A7	Tiles – Introduction Classification	1-12 of article (9)	1-5 of article (9)
15	3 1the. 1tut.	A1- A7	Types & uses of tiles	1-12 of article (9)	1-5 of article (9)

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16	3 1the. 1tut. 1exp.	A1- A7	Manufacture of Tiles	1-12 of article (9)	1-5 of article (9)
17	3 1the. 1tut. 1exp.	A1- A7	Timber Classification of trees	1-12 of article (9)	1-5 of article (9)
18	3 1the. 1tut. 1exp.	A1- A7	Seasoning in wood	1-12 of article (9)	1-5 of article (9)
19	3 1the. 1tut. 1exp.	A1- A7	Methods of wood seasoning	1-12 of article (9)	1-5 of article (9)
20	3 1the. 1tut. 1exp.	A1- A7	Natural defects in timber	1-12 of article (9)	1-5 of article (9)
21	3 1the. 1tut. 1exp.	A1- A7	Artificial defects in timber	1-12 of article (9)	1-5 of article (9)
22	3 1the.	A1- A7	Mechanical properties of woods	1-12 of article (9)	1-5 of article (9)

1tut.		
1exp.		

23	3 1the. 1tut. 1exp.	A1- A7	Strength and moisture in wood	1-12 of article (9)	1-5 of article (9)
24	3 1the. 1tut. 1exp.	A1- A7	Timber defects -Shrinkage in timber - Warping in timber - Cheking in timber	1-12 of article (9)	1-5 of article (9)
25	3 1the. 1tut. 1exp.	A1- A7	Metal Properties of metals	1-12 of article (9)	1-5 of article (9)
26	3 1the. 1tut. 1exp.	A1- A7	-Classification of steel due to carbon content	1-12 of article (9)	1-5 of article (9)
27	3 1the. 1tut. 1exp.	A1- A7	-high carbon steel -properties &uses	1-12 of article (9)	1-5 of article (9)
28	3 1the. 1tut.	A1- A7	-low carbon steel -properties &uses	1-12 of article (9)	1-5 of article (9)

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29	3 1the. 1tut.	A1- A7	-factors affecting steel properties	1-12 of article (9)	1-5 of article (9)
	1exp.				
30	3 1the.	A1- A7	-heat treatment of steel	1-12 of article (9)	1-5 of article (9)
30	3 1the. 1tut.	A1- A7	-heat treatment of steel	1-12 of article (9)	1-5 of article (9)

11. Infrastructure	
1. Books Required reading:	 Construction materials by zuhair Sakoo - Concrete Technology by Chand Construction materials by Sersem Developed reinforced concrete by R.N. Swamy ACI (American concrete institute),ASTM(American standards for testing methods), BS (British standards
2. Main references (sources)	
A- Recommended books and references (scientific journals, reports).	
B-Electronic references, Internet sites	

1. Teaching Institution	College of Engineering University of Baghdad
2. University Department/Centre	Civil Engineering Department (CED)
3. Course title/code	FIRST YEAR Engineering Statistics /CE 108

4. Modes of Attendance offered	Annual System; There is only one mode of delivery, which is a "Day Program". The students are full time students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 30-week regular subjects.			
5. Semester/Year	1st and 2nd/Academic Year 2022–2023			
6. Number of hours tuition (total)	60 hrs. / 2 hrs. per week			
7. Date of production/revision of this specification	01/10/2022			
8. Aims of the Course				
 Solve some practical problems by statistical methods. Develop their skills in thinking. Analyzing problems from a probabilistic. Statistical point of view. Provide the engineer with both descriptive and analytical methods for dealing with the variability in observed data. How engineers use statistical methodology as part of the engineering problem-solving process. 				

9. Learning Outcomes, Teaching, Learning and Assessment Method

A- Cognitive goals.

A1. Determine measure of central tendency and variation from a data set, and estimate Population parameters.

A2. Identify the distribution of a random variable (discrete or continuous) of interest in an experiment, and calculate the probability that the random variable can take on certain values.

A3. Conduct hypothesis testing and construct confidence intervals for the population mean, variance, or proportion (one sample and two samples). A4. Apply the principles of linear regression to predict the outcomes of certain experiment parameters.

B. The skills goals special to the course.

Teaching and Learning Methods

 Lectures. Tutorials. Homework and Assignments. Tests and Exams. In-Class Questions and Discussions. Connection between Theory and Application. Extracurricular Activities. Seminars. In- and Out-Class oral conservations. Reports, Presentations, and Posters.
Assessment methods
 Examinations, Tests, and Quizzes. Extracurricular Activities. Student Engagement during Lectures. Responses Obtained from Students, Questionnaire about Curriculum and Faculty Member (Instructor).
 C. Affective and value goals C1. Increasing student's self-confidence to perform his (homework, classwork and assessment) within the corresponding time. C2. Encouraging the teamwork between the students. C3. Cooperating the universal activities. C4. Supporting the extra-curricular university activities and urging students to participate in them.
Teaching and Learning Methods
 Homework and Assignments. In-Class Questions and Discussions. Field Trips. Extracurricular Activities. Seminars. In- and Out-Class oral conservations. Reports, Presentations, and Posters.
Assessment methods

1. Extracurricular Activities.

2. Student Engagement during Lectures.

3. Responses Obtained from Students, Questionnaire about Curriculum and Faculty Member (Instructor).

D. General and rehabilitative transferred skills (other skills relevant to employability and personal development)

10. Co	10. Course Structure				
Week	Hours	ILOs	Unit/Module or	Teaching	Assessment
			Topic Title	Method	Method
1	2	A1	The Nature of	1-10 of	1 - 4 of article
	1the.		Probability and Statistics	article (9)	(9)
	1tut.				
2	2	A1	The Nature of	1-10 of	1 - 4 of article
	1the.		Probability and Statistics	article (9)	(9)
	1tut				
3	2	A1	Frequency	1-10 of	1 - 4 of article
	1the.		Distribution and Graphs	article (9)	(9)
	1tut				
4	2	A1	Frequency	1-10 of	1 - 4 of article
	1the.		Distribution and Graphs	article (9)	(9)
	1tut				
5	2	A1	Frequency	1-10 of	1 - 4 of article
	1the.		Graphs	article (9)	(9)
	1tut				
6	2	A1	Data Description	1-10 of	1 - 4 of article
	1the.			article (9)	(9)
	1tut				
7	2	A1	Data Description	1-10 of	1 - 4 of article
	1the.			article (9)	(9)
	1tut				
8	2	A1	Probability and	1-10 of	1 - 4 of article
	1the.		Counting Rules	article (9)	(9)
	1tut				

9	2 1the. 1tut	A1	Probability and Counting Rules	1-10 of article (9)	1 – 4 of article (9)
10	2 1the. 1tut	A1	Discrete Probability Distribution	1-10 of article (9)	1 – 4 of article (9)
п	2 1the. 1tut	A1	Discrete Probability Distribution	1-10 of article (9)	1 – 4 of article (9)
12	2 1the. 1tut	A1	Discrete Probability Distribution	1-10 of article (9)	1 – 4 of article (9)
13	2 1the. 1tut	A1	The Normal Distribution	1-10 of article (9)	1 – 4 of article (9)
14	2 (1the. 1tut)	A1	The Normal Distribution	1-10 of article (9)	1 – 4 of article (9)
15	2 1the. 1tut	A1	The Normal Distribution	1-10 of article (9)	1 – 4 of article (9)
16	2 1the. 1tut	A1	Confidence Intervals and Sample Size	1-10 of article (9)	1 – 4 of article (9)
17	2 1the. 1tut	A1	Confidence Intervals and Sample Size	1-10 of article (9)	1 - 4 of article (9)
18	2	A1	Confidence Intervals and Sample Size	1-10 of article (9)	1 – 4 of article (9)

1the.		
1tut		

19	2 1the. 1tut	A1	Hypothesis Testing	1-10 of article (9)	1 – 4 of article (9)
20	2 1the. 1tut	A1	Hypothesis Testing	1-10 of article (9)	1 – 4 of article (9)
21	2 1the. 1tut	A1	TestingtheDifferencebetweenTwoMeans,TwoProportions,andTwo VariancesFourthead	1-10 of article (9)	1 – 4 of article (9)
22	2 1the. 1tut	A1	TestingtheDifferencebetweenTwoMeans,TwoProportions,andTwo VariancesFrank	1-10 of article (9)	1 – 4 of article (9)
23	2 1the. 1tut	A1	TestingtheDifferencebetweenTwoMeans,TwoProportions,andTwoVariances	1-10 of article (9)	1 – 4 of article (9)
24	2 1the. 1tut	A1	TestingtheDifferencebetweenTwoMeans,TwoProportions,andTwo VariancesFrank	1-10 of article (9)	1 – 4 of article (9)
25	2 1the. 1tut	A1	Correlation and Regression	1-10 of article (9)	1 – 4 of article (9)
26	2 1the. 1tut	A3	Correlation and Regression	1-10 of article (9)	1 – 4 of article (9)
27	2	A3	Correlation and	1-10	1-4 of article

1the.	Regression	article (9)	(9)
1tut			

28	2 1the. 1tut	A4	Other Chi-Square Tests	1-10 of article (9)	1 – 4 of article (9)
29	2 1the. 1tut	A4	Other Chi-Square Tests	1-10 of article (9)	1 – 4 of article (9)
30	2 1the. 1tut	A4	Other Chi-Square Tests	1-10 of article (9)	1 – 4 of article (9)

11. Infrastructure	
1. Books Required reading:	 Elementary Statistics: A step by step approach, by Allan G. Bluman, 6th edition Statistics for Engineering and Sciences, by William Mendenhall and William Mendenhall, 5th edition. Applied Statistics and Probability for Engineers, 3rd Edition, by Douglas C. Montgomery and George C. Runger.
2. Main references (sources)	
A- Recommended books and references (scientific journals, reports).	
B-Electronic references, Internet sites	

1. Teaching Institution	College of Engineering University of Baghdad
2. University Department/Centre	Civil Engineering Department (CED)

3. Course title/code	FIRST YEAR Computer Programming /GE 109
4. Modes of Attendance offered	Annual System ; There is only one mode of delivery, which is a "Day Program". The students are full time students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 30-week regular subjects.
5. Semester/Year	1 st and 2 nd /Academic Year 2022–2023
6. Number of hours tuition (total)	120 hrs./4 hrs. per week
7. Date of production/revision of this specification	01/10/2022
8. Aims of the Course	
 Introduce the History of Computing a bilateral. Introduce the Algorithms and flowcha Explain the Quick Basic programming 1 Constant, variable, input, output. 2 Mathematical expressions and librar 3 Control statements (GOTO, ONG 4 Counters, loops and the FOR - NEX 5 Selected case. 5 Matrices and Arrays 6 Defined Functions, subroutine and s 7 Format statement. Introduce students to the computer's h Windows system. Microsoft Word. Microsoft Power Point. 	nd Decimal numbering systems and rts. g languages as follows: y functions. OTO, IF statement). T statements. ubprogram. ardware

9. Learning Outcomes, Teaching, Learning and Assessment Methods

A-	Cognitive	goals.
	\mathcal{O}	\mathcal{O}

A2. Learnir	ng how to write the algorithms and how to draw the
flowchart sl	xetches.
A3. Learnir	ng how to deal with the numerical and string constant and
variable.	
A4. Learnir	ng the types of input and output statements
A5. Learnir	ng the mathematical expressions and library functions in
the Basic L	anguage.
A6. Learnir	ng how to use the control statements (GOTO, ONGOTO,
IF statemen	ts) to make the conditions in the programs.
A7. Learnir	ng how to use the Counters, loops and the FOR - NEXT
statements	in the series programming.
A9. Learnir	ng how to use the (Selected case) in programming.
AIU. Learn	ing how to create matrix, the mathematical operation and
the properti	es of matrices.
AII. Learn	ing how to arrange the elements of matrix ascending or
descending.	n - h to show the least is us of the westing allowed as a d
A12. Learn	ing now to change the locations of the matrix elements and
operation a	ow to create two-unnensional matrix, the mathematical
A 13 Learn	ing how to use the Defined Functions, subroutine and
subprogram	in the programs
A 1/1 Learn	ing the types of Format statement
$\Delta 15$ Introd	uce students to the computer's hardware
A16 Introd	ucing the student on how to use Microsoft WORD
software A	7 Introducing the student on how to use Microsoft
EXCIL soft	ware A18. Introducing the student on how to use
Microsoft P	OWER POINT software.
. The skills	goals special to the course.
I. Analysis	and design software.
hing and Le	earning Methods
) Lectures.	
Tutorials.	

- 4) Lab. Experiments.5) Tests and Exams.

 6) In-Class Questions and Discussions. 7) Connection between Theory and Application. 8) Extracurricular Activities. 9) Seminars. 10) In- and Out-Class oral conservations. 11) Reports, Presentations, and Posters.
Assessment methods
 Examinations, Tests, and Quizzes. Extracurricular Activities. Student Engagement during Lectures. Responses Obtained from Students, Questionnaire about Curriculum and Faculty Member (Instructor).
 C. Affective and value goals C1. Increasing student's self-confidence to perform his (homework, classwork and assessment) within the corresponding time. C2. Encouraging the teamwork between the students. C3. Cooperating the universal activities. C4. Supporting the extra-curricular university activities and urging students to participate in them.
Teaching and Learning Methods
 Homework and Assignments. In-Class Questions and Discussions. Field Trips. Extracurricular Activities. Seminars. In- and Out-Class oral conservations. Reports, Presentations, and Posters.
Assessment methods
 Extracurricular Activities. Student Engagement during Lectures. Responses Obtained from Students, Questionnaire about Curriculum and Faculty Member (Instructor).

D. General and rehabilitative transferred skills (other skills relevant to employability and personal development)

D1. Increasing the ability to use the design and analysis software.

Week	Hours	ILOs	Unit/Module or	Teaching	Assessment
			Topic Title	Method	Method
1	4 2 the. 2tut	A1, A14	HistoryofComputingandDecimalnumberingsystems andbilateral& computershardware	1-11of article (9)	1 – 4 of article (9)
2	4 2 the. 2tut	A2, A14	Algorithms and flowcharts Windows, start menu	1-11of article (9)	1 – 4 of article (9)
3	4 2 the. 2tut	A3, A14	Basic language programming - variables and constants Desktop, search, screen saver, control panels	1-11of article (9)	1 – 4 of article (9)
4	4 2 the. 2tut	A1, A2, A3	Mathematical expressions and library functions Applications on Quick Basic	1-11of article (9)	1 – 4 of article (9)
5	4 2 the. 2tut	A3, A4	Input statement Quiz Applications on Quick Basic	1-11of article (9)	1 – 4 of article (9)

6	4 2 the. 2tut	A4, A15	Output statements and printing Office-word starting, tools, format, insert Quiz	1-11of article (9)	1 – 4 of article (9)
7	4 2 the. 2tut	A5, A15	CLS, REM sentences Office-word starting, tools, format, insert	1-11of article (9)	1 – 4 of article (9)
8	4 2 the. 2tut	A6, A15	control statements(GOT O, ONGOTO, IF statements) Header, footer, border, paragraph	1-11of article (9)	1 – 4 of article (9)
9	4 2 the. 2tut	A7	Counters Quiz	1-11of article (9)	1 – 4 of article (9)
10	4 2 the. 2tut	A12	Quiz Create Pdf, print	1-11of article (9)	1 – 4 of article (9)
11	4 2 the. 2tut	A7	loops and series Applications on Quick Basic	1-11of article (9)	1 – 4 of article (9)
12	4 2 the.	A7	the FOR - NEXT statements in	1-11of article (9)	1 - 4 of article (9)

	2tut		the series Applications on Quick Basic		
13	4	A7	Quiz	1-11of	1 - 4 of article (9)
	2 the.			article (9)	
	2tut				
14	4	A8	Selected case	1-11of	1 - 4 of article (9)
	2 the.		Applications on Quick Basic	article (9)	
	2tut				
15	4	A7	DOLOOP	1-11of	1 – 4 of article (9)
	2 the.		Applications on	article (9)	
	2tut		Quick Basic		
16	4	A7	Quiz	1-11of	1 – 4 of article (9)
	2 the.			article (9)	
	2tut				
17	4	A12,	Matrices and	1-11of	1 – 4 of article (9)
	2 the.	AI6	Arrays	article (9)	
	2tut		starting,		
			worksheets		
18	4	A10,	Mathematical	1-11of	1 – 4 of article (9)
	2 the.	AI6	operation and the properties of	article (9)	
	2tut		matrices.		
			Equations, functions, graphs		
19	4	A10,	Ascending and	1-11of	1 - 4 of article (9)
	2 the.	A16	descending order	article (9)	
	2tut		Tools properties,		
			insert		

	2 the. 2tut	A16	triangles properties. Tutorials	(9)	
21	4 2 the. 2tut	A11	Change the locations of the matrix elements Quiz	1-11of article (9)	1 – 4 of article (9)
22	4 2 the. 2tut	A11	Applications on Quick Basic	1-11of article (9)	1 – 4 of article (9)
23	4 2 the. 2tut	A11, A17	Operations on Tow dimensional array Office-Power Point- starting new, slides	1-11of article (9)	1 – 4 of article (9)
24	4 2 the. 2tut	A11, A17	Multiplication on Tow dimensional array View types, insert	1-11of article (9)	1 – 4 of article (9)
25	4 2 the. 2tut	A11, A17	Creating the largest and smallest element Tutorials	1-11of article (9)	1 – 4 of article (9)
26	4 2 the. 2tut	A11, A17	Quiz	1-11of article (9)	1 – 4 of article (9)
27	4 2 the. 2tut	A12	Defined Functions Applications on Quick Basic	1-11of article (9)	1 – 4 of article (9)
28	4	A12	Subroutine and	1-11of article	1 - 4 of article (9)

	2 the. 2tut		subprogram in the (9)programs. Applications on Quick Basic		
29	4 2 the. 2tut	A13	Format statement Applications on Quick Basic	1-11of article (9)	1 – 4 of article (9)
30	4 2 the. 2tut	A13	Quiz	1-11of article (9)	1 – 4 of article (9)

11. Infrastructure	
1. Books Required reading:	 1-Programming with Quick Basic –Salah R. Hamza 2-Basic language programming - Mehdi Fadel 3- Basic language programming - Salah Messenger Hamza 4- BASIC practical for personal computers - Aladdin Shamsuddin 5-Basic (Robert L. Albercht) 6- An Introduction to Computer Science and Programming with Basic Language-Salam Al Ammri.
2. Main references (sources)	
A- Recommended books and references (scientific journals, reports).	
B-Electronic references, Internet sites	

1. Teaching Institution	College of Engineering University of Baghdad
2. University Department/Centre	Civil Engineering Department (CED)

3. Course title/code	FIRST YEAR Technical English / GE 111				
4. Modes of Attendance offered	Annual System; There is only one mode of delivery, which is a "Day Program". The students are full time students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 30-week regular subjects.				
5. Semester/Year	1 st and 2 nd /Academic Year 2022–2023				
6. Number of hours tuition (total)	60 hrs./2 hrs. per week				
7. Date of production/revision of this specification	01/10/2022				
8. Aims of the Course					
 A- A great deal of successful language learning comes from experiences in which the learning is largely unconscious. B- This course aimed to make the student's interest in the career information presented will increase his or her ability to communicate more easily in English. 					

9. Learning Outcomes, Teaching, Learning and Assessment Method
A- Cognitive goals.
A1. This Course is to introduce the student to the particular vocational area
in which he or she is involved.
A2. The duties of different kinds of jobs are discussed, as well as the
problems that might be encountered at work.
A3. Different phases of the civil engineering filed are discussed, together
with some of the methods involved in designing structures for a number of
different purposes.
A4. The aptitudes and education that an engineer must have are also
discussed, as well as some of the specific job areas in which he or she may
work.
A5. This course will be an introduction to the different kinds of work in
the field of civil engineering.
B. The skills goals special to the course.

Teaching and Learning Methods

1. Lectures. 2. Tutorials. 3. Homework and Assignments. 4. Lab. Experiments. 5. Tests and Exams. 6. In-Class Questions and Discussions. 7. Connection between Theory and Application. 8. Field Trips. 9. Extracurricular Activities. 10. Seminars. 11. In- and Out-Class oral conservations. 12. Reports, Presentations, and Posters. Assessment methods 1. Examinations, Tests, and Quizzes. 2. Extracurricular Activities. 3. Student Engagement during Lectures. 4. Responses Obtained from Students, Questionnaire about Curriculum and Faculty Member (Instructor). C. Affective and value goals C1. Increasing student's self-confidence to perform his (homework, classwork and assessment) within the corresponding time. C2. Encouraging the teamwork between the students. C3. Cooperating the universal activities. C4. Supporting the extra-curricular university activities and urging students to participate in them. Teaching and Learning Methods 1. Homework and Assignments. 2. In-Class Questions and Discussions. 3. Field Trips. 4. Extracurricular Activities. 5. Seminars. 6. In- and Out-Class oral conservations. 7. Reports, Presentations, and Posters.

Assessment methods

1. Extracurricular Activities.

2. Student Engagement during Lectures.

3. Responses Obtained from Students, Questionnaire about Curriculum and Faculty Member (Instructor).

D. General and rehabilitative transferred skills(other skills relevant to employability and personal development)

10. Coi	10. Course Structure					
Week	Hours	ILOs	Unit/Module or	Teaching	Assessment	
			Topic Title	Method	Method	
1	2 1the. 1tut.	A1, A2	Chapter 1	1-12 of article (9)	1 – 4 of article (9)	
2	2 1the. 1tut	A1, A2	Chapter 1	1-12 of article (9)	1 – 4 of article (9)	
3	2 1the. 1tut	A1, A2	Chapter 2	1-12 of article (9)	1 – 4 of article (9)	
4	2 1the. 1tut	A2, A3, A4, A5	Chapter 2	1-12 of article (9)	1 – 4 of article (9)	
5	2 1the. 1tut	A2, A3, A4, A5	Chapter 3	1-12 of article (9)	1 - 4 of article (9)	
6	2 1the. 1tut	A2, A3, A4, A5	Chapter 3	1-12 of article (9)	1 – 4 of article (9)	

7	2 1the. 1tut	A2, A3, A4, A5	Chapter 4	1-12 of article (9)	1 – 4 of article (9)
8	2 1the. 1tut	A2, A3, A4, A5	Chapter 4	1-12 of article (9)	1 – 4 of article (9)

9	2 1the. 1tut	A2, A3, A4, A5	Chapter 5	1-12 of article (9)	1 – 4 of article (9)
10	2 1the. 1tut	A2, A3, A4, A5	Chapter 5	1-12 of article (9)	1 – 4 of article (9)
11	2 1the. 1tut	A2, A3, A4, A5	Chapter 6	1-12 of article (9)	1 – 4 of article (9)
12	2 1the. 1tut	A2, A3, A4, A5	Chapter 6	1-12 of article (9)	1 – 4 of article (9)
13	2 1the. 1tut	A2, A3, A4, A5	Chapter 7	1-12 of article (9)	1 – 4 of article (9)
14	2 1the. 1tut	A2, A3, A4, A5	Chapter 7	1-12 of article (9)	1 – 4 of article (9)
15	2 1the. 1tut	A2, A3, A4, A5	Presentations	1-12 of article(9)	1 – 4 of article (9)
16	2 1the. 1tut	A2, A3, A4, A5	Presentations	1-12 of article (9)	1 – 4 of article (9)

17	2	A2,	Chapter 8	1-12 of	1 - 4 of article (9)
	1the.	A3, $\Lambda 4$ $\Lambda 5$		article (9)	
	1tut	A4, AJ			

18	2 1the. 1tut	A2, A3, A4, A5	Chapter 8	1-12 of article (9)	1 – 4 of article (9)
19	2 1the. 1tut	A2, A3, A4, A5	Chapter 9	1-12 of article (9)	1 – 4 of article (9)
20	2 1the. 1tut	A2, A3, A4, A5	Chapter 9	1-12 of article (9)	1 – 4 of article (9)
21	2 1the. 1tut	A2, A3, A4, A5	Chapter 10	1-12 of article(9)	1 – 4 of article (9)
22	2 1the. 1tut	A2, A3, A4, A5	Chapter 10	1-12 of article (9)	1 – 4 of article (9)
23	2 1the. 1tut	A2, A3, A4, A5	Chapter 11	1-12 of article (9)	1 – 4 of article (9)
24	2 1the. 1tut	A2, A3, A4, A5	Chapter 11	1-12 of article (9)	1 – 4 of article (9)
25	2 1the. 1tut	A2, A3, A4, A5	Chapter 12	1-12 of article (9)	1 – 4 of article (9)
26	2 1the. 1tut	A2, A3, A4, A5	Chapter 12	1-12 of article (9)	1 – 4 of article (9)

27	2 1the. 1tut	A2, A3, A4, A5	Chapter 13	1-12 of article (9)	1 – 4 of article (9)
28	2 1the. 1tut		Chapter 13	1-12 of article (9)	1 – 4 of article (9)
29	2 1the. 1tut		Chapter 14	1-12 of article (9)	1 – 4 of article (9)
30	2 1the. 1tut		Chapter 14	1-12 of article (9)	1 – 4 of article (9)

11. Infrastructure			
1. Books Required reading:	New Headway Plus (Beginner Student's Book and Student's Workbook with Key), by Liz and John Soars		
2. Main references (sources)			
A- Recommended books and references (scientific journals, reports).			
B-Electronic references, Internet sites			

1. Teaching Institution	College of Engineering University of Baghdad
2. University Department/Centre	Civil Engineering Department (CED)

3. Course title/code	FIRST YEAR Arabic Language /GE 113				
4. Modes of Attendance offered	Annual System; There is only one mode of delivery, which is a "Day Program". The students are full time students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 30-week regular subjects.				
5. Semester/Year	1 st and 2 nd /Academic Year 2022–2023				
6. Number of hours tuition (total)	30 hrs./1 hrs. per week				
7. Date of production/revision of this specification	01/10/2022				
8. Aims of the Course					
إلى ينسأ الطالب على حب اللغة العربية. تعة العران الحريم 1- في االتصال باآلخرين عن طريق-2 أن يكتسب الطالب القدرة على استعمال اللغة استعماالً صحيحاً التحدث والكتابة واالستماع والقراءة. مما ييسر لهم أمور هم ويعينهم على قضاء حوائجه م ومصال					
واالطالع4 أن يكتسب الطلبة القدرة على التعبير عن أنفسهم وما يقع تحت حواسهم نطقا					
وكتابةً -5 أن يتزود الطالب بثروة لغوية عن طريق تزويدهم ببعض األلفاظ والتراكيب أحسبت بالمالة تاتيب مباسات معنية أن مسترونا الماليات المالية الذيبة التراكيب					
ان يكتسب الطلبة القدرة على التعبير عن الفسهم من حال المهارات التعوية المنصلة بــ: التحدت ٥- _ القراءة _ اللستماع _ . الكتابة					
التعرف على مواطن الجمال في اللغة العربية وآدابها 8- [التعرف على مواطن الجمال في اللغة العربية وآدابها 8- []: أن يكتسب الطالب القدرة على دراسة فروع اللغة العربية 9- [النحو _ القراءة _ األناشيد)المحفوظات(_ اإلمالء _ التعبير _ الخط أن يتدرب الطالب على التعبير الصحيح عن معنى ما يقرأ أو يسمع 10-					

9. Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Cognitive goals.

تدريب الطلبة على سالمة النطق وحسن اإللقاء والتعبير بنبرات صوتية واضحة.و تعويدهم على 1-مواجهة المواقف بشجاعة ، وبث فيهم الثقة بالنفس.و غرس القدرة على فهم ما يقرؤون وما يسمعون في سرعة ودقة. و تزويدهم بكثير من األلفاظ والتراكيب والجمل واألساليب وتنمي ثروتهم اللغوية وتزيد ثقافتهم-. وتكسب الطلبة عادة حب القراءة ومصاحبة الكتاب. تنمية الحصيلة اللغوية لدى الطالب وذلك بتزويده بالمفردات والتراكيب والعبارات الجديدة-. وتنمية القدرة على ما يقدم على م

مع فهمه فهما صحيحا ونقده واالنتفاع به

تدريب الطلبة على كتابة الكلمات كتابة صحيحة ، وتثبيت صورها في أذهان الطلبة 2-والقدرة على استعادة تلك الصور عند الكتابة. وتعويدهم على االنتباه وقوة المالحظة والدقة والترتيب والتنسيق. وتدريب حواسهم على اإلجادة واإلتقان وهذه الحواس هي:_ األذن التي تسمع واليد التي تكتب والعين التي تبصر الجواب وهذا يساعد على اختبار معلومات الطلبة وتنمية قدراتهم على التعبير وتنمية المهارة الكتابية غير المنظورة لديهم

تحقيق التكامل في تدريس اللغة العربية بحيث تخدم اإلمــــــالء فروع اللغة العربية 3-األخرى وإثراء الثروة المعرفية لديهم التي تزوده بها النصـوص اإلمالئية الهادفة و تدريبهم .على إدراك الفروق الدقيقة بين الحروف المتقاربة المخارج

تقويم ألسنة الطلبة ،ووقايتهم من الخطأ ، وتكوين عادات لغوية سليمة تمكنهم من 4-استعمال األلفاظ والجمل استعماال صحيحاً خالياًمن األخطاء النحوية التي تذهب بحمال الكالم

وروعته وتعويدهم على دقة المالحظة ،والتمييز بين الخطأ والصواب فيما يسمعون أو يقرؤون وإدراك وظائف الكلمات في الجمل مما يساعد على فهم مواقعها المختلفة فضال عن

إيقاف الطلبة لتلك األوضاع والصيغ وتبينعلى أوضاع اللغة وصيغها ؛ ألن قواعد النحو تعد

وصفا علمياً

. التغيير ات التي تحدث لأللفاظ في مو اقعها المختلفة

القدرة على توضيح األفكار باستخدام الكلمات المناسبة واألسلوب المناسب.و تنمية قدرة 5-

كرة المعبر عنها مما يضفي عليها جمال الطالب على تنسيق عناصر الف وقوةً تؤثر في السامع والقارئ.و تنمية قدرة الطالب على نقل وجهة نظره إلى غيره تنمية التفكير .وتنشيطه وتنظيمه والعمل على تغذية خيال الطالب بعناصر النمو واالبتكار

B. The skills goals special to the course.

Teaching and Learning Methods

- 1) Lectures.
- 2) Tutorials.
- 3) Homework and Assignments.
- 4) Tests and Exams.
- 5) In-Class Questions and Discussions.
- 6) Extracurricular Activities.
- 7) Seminars.
- 8) In- and Out-Class oral conservations.
| 9) Reports, Presentations, and Posters. |
|--|
| Assessment methods |
| Examinations, Tests, and Quizzes. Extracurricular Activities. Student Engagement during Lectures. Responses Obtained from Students, Questionnaire about Curriculum and
Faculty Member (Instructor). |
| C. Affective and value goals C1. Increasing student's self-confidence to perform his (homework, classwork and assessment) within the corresponding time. C2. Encouraging the teamwork between the students. C3. Cooperating the universal activities. C4. Supporting the extra-curricular university activities and urging students to participate in them. |
| Teaching and Learning Methods |
| Homework and Assignments. In-Class Questions and Discussions. Field Trips. Extracurricular Activities. Seminars. In- and Out-Class oral conservations. Reports, Presentations, and Posters. |
| Assessment methods |
| Extracurricular Activities. Student Engagement during Lectures. |
| 3. Responses Obtained from Students, Questionnaire about
Curriculum and Faculty Member (Instructor). |

D. General and rehabilitative transferred skills (other skills relevant to employability and personal development)