

Course Description Form

1. Course Name:					
2. Course Code:					
3. Semester / Year:					
4. Description Preparation Date:					
5. Available Attendance Forms:					
6. Number of Credit Hours (Total) / Number of Units (Total)					
7. Course administrator's name (mention all, if more than one name)					
Name:					
Email:					
8. Course Objectives					
Course Objectives			• • •		
9. Teaching and Learning Strategies					
Strategy					
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
					

11. Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)					
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					



Course Description Form

1. Course Name:					
Dynamical Systems					
2. Course Code:					
3. Semester / Year:					
2025-2024					
4. Description Preparation Date:					
1/5/2025					
5. Available Attendance Forms:					
My presence					
6. Number of Credit Hours (Total) / Number of Units (Total)					
120/6 (Units)					
7. Course administrator's name (mention all, if more than one name)					
Name: Sarah Ghanim Mahmood Alkabachee					
Email: sarahghanim@uohamdaniya.edu.iq					
8. Course Objectives					
Course Objectives		• Recognizing the basic characteristics of the nature of scientific material. • Developing his/her analytical abilities to reach logical solutions for various problems. • Ability to evaluate the academic program (Mental skills). • Ability to collect information from different sources. • Ability to make decisions and take responsibility. • Ability to maintain self-discipline and a spirit of motivation.			
9. Teaching and Learning Strategies					
Strategy		• Lectures – Discussion sessions – Solving exercises. • Guiding students to use books and scientific journals independently.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject na	Learning method	Evaluation method
1	2	Theoretical knowledge an applied analysis	Introduction of dynamical system	Discussion and dialogue	Direct questions
2	2	Theoretical knowledge an applied analysis	Some definitions	Discussion and dialogue	Direct questions

3	2	Theoretical knowledge and applied analysis	The iteration	Discussion and dialogue	Direct questions
4	2	Theoretical knowledge and applied analysis	The orbit	Discussion and dialogue	Direct questions
5	2	Theoretical knowledge and applied analysis	Cob web plot	Discussion and dialogue	Direct questions
6	2	Theoretical knowledge and applied analysis	Fixed point	Discussion and dialogue	Direct questions
7	2	Theoretical knowledge and applied analysis	Examples	Discussion and dialogue	Direct questions
8	2	Theoretical knowledge and applied analysis	The existence of fixed point	Discussion and dialogue	Direct questions
9	2	Theoretical knowledge and applied analysis	The unique of fixed point	Discussion and dialogue	Direct questions
10	2	Theoretical knowledge and applied analysis	Monthly Exam	Discussion and dialogue	Direct questions
11	2	Theoretical knowledge and applied analysis	Invariant point	Discussion and dialogue	Direct questions
12	2	Theoretical knowledge and applied analysis	Lipchitz function	Discussion and dialogue	Direct questions
13	2	Theoretical knowledge and applied analysis	Contraction function	Discussion and dialogue	Direct questions
14	2	Theoretical knowledge and applied analysis	Stability of the fixed point	Discussion and dialogue	Direct questions
15	2	Theoretical knowledge and applied analysis	Periodic points	Discussion and dialogue	Direct questions
16	2	Theoretical knowledge and applied analysis	Attracting and repelling 2-cycle	Discussion and dialogue	Direct questions
17	2	Theoretical knowledge and applied analysis	Autonomous D.S.	Discussion and dialogue	Direct questions
18	2	Theoretical knowledge and applied analysis	Stability theory	Discussion and dialogue	Direct questions
19	2	Theoretical knowledge and applied analysis	Chaos theorem	Discussion and dialogue	Direct questions
20	2	Theoretical knowledge and applied analysis	Lyapunov theorem	Discussion and dialogue	Direct questions
21	2	Theoretical knowledge and applied analysis	Investigation for stability of first	Discussion and dialogue	Direct questions
22	2	Theoretical knowledge and applied analysis	approximation	Discussion and dialogue	Direct questions
23	2	Theoretical knowledge and applied analysis	Monthly Exam	Discussion and dialogue	Direct questions
24	2	Theoretical knowledge and applied analysis	Basin of attracting	Discussion and dialogue	Direct questions
25	2	Theoretical knowledge and applied analysis	Stationary points	Discussion and dialogue	Direct questions
26	2	Theoretical knowledge and applied analysis	Examples	Discussion and dialogue	Direct questions
27	2	Theoretical knowledge and applied analysis	Bifurcation points	Discussion and dialogue	Direct questions
28	2	Theoretical knowledge and applied analysis	Examples	Discussion and dialogue	Direct questions
29	2	Theoretical knowledge and applied analysis	Linear dynamical system	Discussion and dialogue	Direct questions
30	2	Theoretical knowledge and applied analysis	Phase portrait	Discussion and dialogue	Direct questions

11.Course Evaluation

- **10 marks** – Monthly exams
- **5 marks** – Attendance and daily quizzes



- **25 marks** – Midterm exam
- **60 marks** – Final exam

- **100 marks** – Total score

12. Learning and Teaching Resources

Required textbooks (curricular books any)	Introduction continuum Mechanics fourth Edition, (W ,Erhard Krempf) January 2009
Main references (sources)	
Recommended books and references (scientific journals, reports...)	النمذجة الماركوفية مع تطبيقات عملية الجزء الاول، أ. د. باسل يونس الخياط، 2011 النمذجة الماركوفية مع تطبيقات عملية الجزء الثاني، أ. د. باسل يونس الخياط، 2011
Electronic References, Websites	



Course Description Form

1. Course Name:	
Measurement and evaluation	
2. Course Code:	
—	
3. Semester / Year:	
2024-2025	
4. Description Preparation Date:	
1/5/2025	
5. Available Attendance Forms:	
Attendance in classrooms	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 hours/4	
7. Course administrator's name (mention all, if more than one name)	
Name: Thakreen Faisal Sultan Email: thakreenfaisal@uohamdaniya.edu.iq	
8. Course Objectives	
Course Objectives	- It aims to prepare teachers who are capable of teaching in schools using all the methods and tests required for teaching. - It also aims to prepare them and enable them to apply these methods and tests in a practical and educational manner. - It also aims to keep pace with practical and technical developments in this field
9. Teaching and Learning Strategies	
Strateg	Use educational discussion (educational dialogue), which relies on exchange of ideas to arrive at facts. Collective notes to involve all students in classroom activities.



Classroom exercises to participate in finding appropriate solutions certain aspects of the assessment.

10. Course Structure

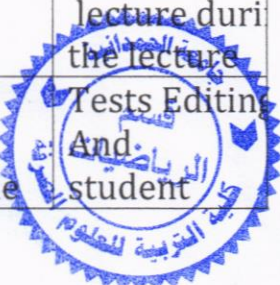
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Theoretical knowledge And applied analysis	Introduction to The subject of measurement and evaluation	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
2	2	Theoretical knowledge And Applied analysis	Overview Measurement and Evaluation Including a brief history and the concepts of test measurement and evaluation. and their importance in the educational process	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
3	2	Theoretical knowledge And applied analysis	Types of calendars According to the standard or test used and categorised	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
4	2	Theoretical knowledge And Applied analysis	Formulation of behavioural goals And their importance evaluation and Bloom's taxonomy	Lecture and Cooperative learning style	Tests Editing And student participation during the lecture during the lecture



			educational goals		
5	2	Theoretical knowledge And Applied analysis	The test map and its importance in the preparation of achievement tests	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
6	2	Theoretical knowledge And Applied analysis	Achievement tests, their concept and types	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
7	2	Theoretical knowledge And Applied analysis	Answer-based test	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
8	2	Theoretical knowledge And Applied analysis	Tests Tests that Require lengthy answers (essay)	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
9	2	Theoretical knowledge And Applied analysis	Tests Tests that require short answers	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
10	2	Theoretical knowledge And Applied analysis	A monthly exam		A monthly exam
11	2	Theoretical knowledge	Tests True /false	Lecture and cooperative	Tests Editing And



		And Applied analysis	tests, advantages, disadvantages and rules for setting them up	learning style	student participation during the lecture during the lecture
12	2	Theoretical knowledge And Applied analysis	Matching test: advantages, disadvantages and preparation rules	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
13	2	Theoretical knowledge And Applied analysis	Multiple Choice Test Advantages, disadvantages And Preparation rules	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
14	2	Theoretical knowledge And Applied analysis	Assembling test paragraphs Preparing test instructions	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
15	2	Theoretical knowledge And Applied analysis	Testing experience Analyse and optimize test passages	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
16	2	Theoretical knowledge And Applied analysis	Muzzling the answer (test correction)	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
17	2	Theoretical knowledge And	Types of correction keys To	Lecture and cooperative learning style	Tests Editing And student



		Applied analysis	Statistically analyse the test items		participation during the lecture during the lecture
18	2	Theoretical knowledge And Applied analysis	To Statistically analyse the test items	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
19	2	Theoretical knowledge And Applied analysis	Extracting the coefficient of difficulty for Essay test paragraphs	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
20	2	Theoretical knowledge And Applied analysis	Extracting the coefficient difficulty for essay test paragraphs	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
21	2	Theoretical knowledge And Applied analysis	A monthly exam		A monthly exam
22	2	Theoretical knowledge And Applied analysis	Extracting the discrimination coefficient of the test items Objective comprehensive theoretical examination in the subject	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
23	2	Theoretical knowledge And	Extracting the coefficient of effectiveness	Lecture and cooperative learning style	Tests Editing And student



		Applied analysis	of false alternatives		participation during the lecture during the lecture
24	2	Theoretical knowledge And Applied analysis	Improve paragraphs according to the indicators analysed	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
25	2	Theoretical knowledge And Applied analysis	Characteristics of a good test	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
26	2	Theoretical knowledge And Applied analysis	Honesty, what it what influences it	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
27	2	Theoretical knowledge And Applied analysis	Honesty Content and honesty outward sincerity Structural honesty and test-related honesty	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
28	2	Theoretical knowledge And Applied analysis	Persistence, what it is, what influences it	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
29	2	Theoretical knowledge And	Stability calculation methods,	Lecture and cooperative learning style	Tests Editing And student

		Applied Analysis	retesting method		participation during the lecture during the lecture
30	2	Theoretical knowledge And Applied analysis	A monthly exam		A monthly exam

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

12. Learning and Teaching Resources

Required textbooks (curricular books any)	Measurement and evaluation
Main references (sources)	-Psychometrics and Educational Evaluation by Prof. Dr Safaa Tariq Habib. -Psychometrics. Authored by Safwat Farag.
Recommended books and references (scientific journals, reports...)	1.Measurement and Evaluation. Dr Sabah Hussein Al-Ajili and others 2.Journal of Psychometrics and Educational Evaluation
Electronic References, Websites	-

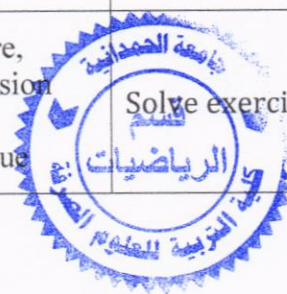


Course Description Form

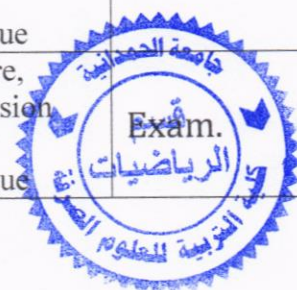
1. Course Name:					
Mathematical Statistics					
2. Course Code:					
3. Semester / Year:					
2024-2025					
4. Description Preparation Date:					
2025/4/10					
5. Available Attendance Forms:					
In-person/online education					
6. Number of Credit Hours (Total) / Number of Units (Total)					
120/6					
7. Course administrator's name (mention all, if more than one name)					
Name: Sarmad Abdulkhaleq Salih Email: sarmadsalih@uohamdaniya.edu.iq					
8. Course Objectives					
Course Objectives		This course aims to provide students with knowledge of the basic principles of mathematical statistics concepts through the study of discrete and continuous probability distributions, as well as the estimation of distribution parameters using traditional methods, such as the maximum likelihood method and the method of moments, and providing some illustrative examples in this regard. These concepts are essential for conducting statistical data analysis, as they are the basis for all scientific research, whether specialized or not.			
9. Teaching and Learning Strategies					
Strategy		1. Gain experience and knowledge in the basic vocabulary of the subject. 2. Connect the concepts of probability and statistics. 3. Lecture, discussion, dialogue, daily assignments, and problem-solving.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method



First	4	Some Spacial Distribution	Uniform dist. Bernolli dist.	Lecture, discussion And dialogue	Direct Questions homework
Second	4	Some Spacial Distribution	Binomial dist. Poisson dist. Geometric dist.	Lecture, discussion And dialogue	Direct questions + daily exam.
Third	4	Some Spacial Distribution	Uniform continous dist. Exponential dist.	Lecture, discussion And dialogue	Direct questions homework
Fourth	4	Some Spacial Distribution	Normal dist. Standard normal dist.	Lecture, discussion And dialogue	Direct Questions homework
Fifth	4	Some Spacial Distribution	Chi- Square dist. Gamma dist. Beta dist.	Lecture, discussion And dialogue	Exam.
Sixth	4	Marginal, Conditional dists., Independence Stochastic	Marginal dist. of discrete dist.	Lecture, discussion And dialogue	Direct questions homework
Seventh	4	Marginal, Conditional dists., Independence Stochastic	Marginal dist. of continuous dist.	Lecture, discussion And dialogue	Direct Questions homework
Eight	4	Marginal, Conditional dists., Independence Stochastic	Moment Generating Function for discrete and continuous dists.	Lecture, discussion And dialogue	daily exam
Ninth	4	Marginal, Conditional dists., Independence Stochastic	Conditional dist. of discrete dists	Lecture, discussion And dialogue	Direct Questions homework
Tenth	4	Marginal, Conditional dists., Independence Stochastic	Conditional dist. of continuous dists	Lecture, discussion And dialogue	Direct Questions homework
Eleventh	4	Marginal, Conditional dists., Independence Stochastic	Independence Stochastic	Lecture, discussion And dialogue	Solve exercises



Twelfth	4	Sampling distributions	Transformations Technique	Lecture, discussion And dialogue	Direct Questions homework
Thirteenth	4	Sampling distributions	T- distribution	Lecture, discussion And dialogue	Direct questions
Fourteenth	4	Sampling distributions	F- distribution	Lecture, discussion And dialogue	Homework
Fifteenth	4	Monthly exam	Monthly exam	Monthly exam	Monthly exam
Sixteenth	4	Order Statistics	Distribution of A single order statistics	Lecture, discussion And dialogue	Direct questions homework
Seventeenth	4	Order Statistics	Joint Distribution of Any Two order statistics	Lecture, discussion And dialogue	Direct questions Exam.
Eighteenth	4	Confidence Interval	Confidence Interval for the mean	Lecture, discussion And dialogue	Direct Questions homework
Nineteenth	4	Confidence Interval	Confidence Interval for the mean	Lecture, discussion And dialogue	Direct questions
Twenty	4	Confidence Interval	Confidence Interval for the difference means	Lecture, discussion And dialogue	Direct questions homework
Twenty-first	4	Confidence Interval	Confidence Interval for the variance and Ratio of two Varance	Lecture, discussion And dialogue	Direct Questions homework
Twenty-second	4	Point Estimation	Methods of finding Estimators	Lecture, discussion And dialogue	Direct questions
Twenty-Third	4	Point Estimation	Moments Method	Lecture, discussion And dialogue	homework
Twenty-Forth	4	Point Estimation	Maximun Likelihood Method	Lecture, discussion And dialogue	Exam.



11. Course Evaluation

1. Written and oral exams and homework (15) marks.
2. Midterm exams (25) mark.
3. Final exam (60) marks.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	.R by ,Statistics Mathematical to Introduction V. Hogg and A. T. Craig. 2007
Main references (sources)	عادل احمد هدو " الاحصاء الرياضي ، الطبعة الاولى كلية الادارة والاقتصاد ، جامعة المستنصرية ، العراق . 2019
Recommended books and references (scientific journals, reports...)	امير حنا هرمز " الاحصاء الرياضي " دار الطباعة للنشر ، جامعة الموصل ، العراق . 1990
Electronic References, Websites	Lakshmikantham, ,ed. by D. Kannan,... V. (2002). Handbook of stochastic analysis and applications. New York: M. Dekker



Course Description Form

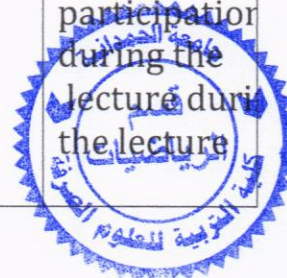
1. Course Name:	
Measurement and evaluation	
2. Course Code:	
—	
3. Semester / Year:	
2024-2025	
4. Description Preparation Date:	
1/5/2025	
5. Available Attendance Forms:	
Attendance in classrooms	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 hours	
7. Course administrator's name (mention all, if more than one name)	
Name: Thakreen Faisal Sultan Email: thakreenfaisal@uohamdaniya.edu.iq	
8. Course Objectives	
Course Objectives	- It aims to prepare teachers who are capable of teaching in schools using all the methods and tests required for teaching. - It also aims to prepare them and enable them to apply these methods and tests in a practical and educational manner. - It also aims to keep pace with practical and technical developments in this field
9. Teaching and Learning Strategies	
Strateg	Use educational discussion (educational dialogue), which relies on the exchange of ideas to arrive at facts. Collective notes to involve all students in classroom activities.



Classroom exercises to participate in finding appropriate solutions certain aspects of the assessment.

10. Course Structure

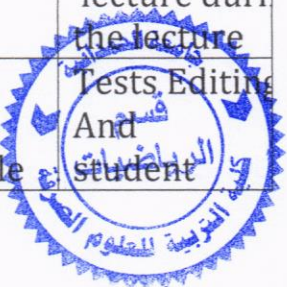
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Theoretical knowledge And applied analysis	Introduction to The subject of measurement and evaluation	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
2	2	Theoretical knowledge And Applied analysis	Overview Measurement and Evaluation Including a brief history and the concepts of test measurement and evaluation. and their importance in the educational process	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
3	2	Theoretical knowledge And applied analysis	Types of calendars According to the standard or test used and categorised	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
4	2	Theoretical knowledge And Applied analysis	Formulation of behavioural goals And their importance evaluation and Bloom's taxonomy	Lecture and Cooperative learning style	Tests Editing And student participation during the lecture during the lecture



			educational goals		
5	2	Theoretical knowledge And Applied analysis	The test map and its importance in the preparation of achievement tests	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
6	2	Theoretical knowledge And Applied analysis	Achievement tests, their concept and types	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
7	2	Theoretical knowledge And Applied analysis	Answer-based test	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
8	2	Theoretical knowledge And Applied analysis	Tests Tests that Require lengthy answers (essay)	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
9	2	Theoretical knowledge And Applied analysis	Tests Tests that require short answers	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
10	2	Theoretical knowledge And Applied analysis	A monthly exam		A monthly exam
11	2	Theoretical knowledge	Tests True /false	Lecture and cooperative	Tests Editing And



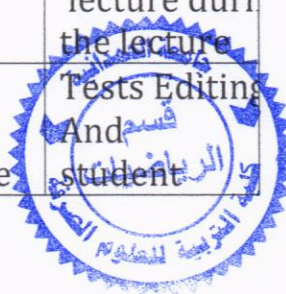
		And Applied analysis	tests, advantages, disadvantages and rules for setting them up	learning style	student participation during the lecture during the lecture
12	2	Theoretical knowledge And Applied analysis	Matching test: advantages, disadvantages and preparation rules	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
13	2	Theoretical knowledge And Applied analysis	Multiple Choice Test Advantages, disadvantages And Preparation rules	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
14	2	Theoretical knowledge And Applied analysis	Assembling test paragraphs Preparing test instructions	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
15	2	Theoretical knowledge And Applied analysis	Testing experiencee Analyse and optimize test passages	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
16	2	Theoretical knowledge And Applied analysis	Muzzle the answer (test correction)	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
17	2	Theoretical knowledge And	Types of correction keys To	Lecture and cooperative learning style	Tests Editing And student



		Applied analysis	Statistically analyse the test items		participation during the lecture during the lecture
18	2	Theoretical knowledge And Applied analysis	To Statistically analyse the test items	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
19	2	Theoretical knowledge And Applied analysis	Extracting the coefficient of difficulty for Essay test paragraphs	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
20	2	Theoretical knowledge And Applied analysis	Extracting the coefficient difficulty for essay test paragraphs	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
21	2	Theoretical knowledge And Applied analysis	A monthly exam		A monthly exam
22	2	Theoretical knowledge And Applied analysis	Extracting the discrimination coefficient of the test items Objective comprehensive theoretical examination in the subject	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
23	2	Theoretical knowledge And	Extracting the coefficient of effectiveness	Lecture and cooperative learning style	Tests Editing And student



		Applied analysis	of false alternatives		participation during the lecture during the lecture
24	2	Theoretical knowledge And Applied analysis	Improve paragraphs according to the indicators analysed	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
25	2	Theoretical knowledge And Applied analysis	Characteristics of a good test	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
26	2	Theoretical knowledge And Applied analysis	Honesty, what it what influences it	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
27	2	Theoretical knowledge And Applied analysis	Honesty Content and honesty outward sincerity Structural honesty and test-related honesty	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
28	2	Theoretical knowledge And Applied analysis	Persistence, what it is, what influences it	Lecture and cooperative learning style	Tests Editing And student participation during the lecture during the lecture
29	2	Theoretical knowledge And	Stability calculation methods,	Lecture and cooperative learning style	Tests Editing And student



		Applied Analysis	retesting method		participation during the lecture during the lecture
30	2	Theoretical knowledge And Applied analysis	A monthly exam		A monthly exam

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

12. Learning and Teaching Resources

Required textbooks (curricular books any)	Measurement and evaluation
Main references (sources)	-Psychometrics and Educational Evaluation by Prof. Dr Safaa Tariq Habib. -Psychometrics. Authored by Safwat Farag.
Recommended books and references (scientific journals, reports...)	1.Measurement and Evaluation. Dr Sabah Hussein Al-Ajili and others 2.Journal of Psychometrics and Educational Evaluation
Electronic References, Websites	-



Course Description Template

1. Course Title	
Complex Analysis	
2. Course Code	
3. Semester / Academic Year	
Fourth Year / 2025-2026	
4. Date of Preparation of this Description	
12 / 4 / 2025	
5. Available Attendance Modes	
Face-to-Face Instruction	
6. Total Study Hours / Total Credit Units	
120 hours / 6 units	
7. Name of Course Coordinator (If more than one, list all)	
Lecturer Dr. Hikmat Sharif Mustafa Email hekmat78@uohamdaniya.edu.iq	
8. Course Objectives	
Subject Learning Objectives	• This course aims to study the topological properties of complex numbers. • Provide an introduction to analytic functions, complex integration, and important integral formulas. • Provide an introduction to complex



	integration and integral formulas.
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9. Teaching and Learning Strategies

Strategy	Lecture, discussion, dialogue, applied analysis, brainstorming
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method
1-5	20	Theoretical Knowledge and Applied Analysis	complex numbers Algebraic property Cartesian coordinate Polar coordinate Regions in the complex plane The extended complex plan	Lecture, discussion and dialogue	Direct questions
6-10	20	Theoretical Knowledge and	Analytic functions 2 Functions in one variable Multiple	Lecture, discussion and dialogue	Direct questions



		Applied Analysis	valued function Application ,Limits ,Continuity ,Derivatives CauchyRieman equations andanalytic functions CauchyRieman equations in polar form Harmonic functions		
11-13	12	Theoretical Knowledge and Applied Analysis	Elementary Function 3 Exponential functions Logarithmic functions Trigonometri c functions Hyperbolic functions	Lecture and discussion, brainstorming	Direct questions
14-18	20	Theoretical Knowledge and Applied Analysis	Mapping by elementary functions 4 Linear functions transformations The transformation $w=1/z$ The transformatio n $w=z$	Lecture and discussion	Monthly exam
19-24	24	Theoretical Knowledge and Applied Analysis	Integrations and Applications 5 Definite integrals Line integrals CauchyGoursat theorem Simply connected and multiply connected domains Indefinite integrals The cuachy integrals formula Morera's Theorem Liouvell's Theorem	Lecture, discussion and dialogue	Direct questions



			the fundamental Theorem of algebra		
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11.Course Assessment

15 marks / Monthly Exams
25 marks / Midterm Exam
60 marks / Final Exam

12.Learning Resources

Required Textbooks (Methodology, if available)	Complex Analysis, Joseph – Back, 2010 Complex Variables and – Application (8 edition), Ruel V. Churchill & 2008 James Brown,
Primary References (Sources)	Main Reference/ Complex Variables and Their Applications Authored by R. Churchill, G. Brown, R. Ferry Translated by Yahya Abdul Saeed, Samir Bashir Hadid. Ministry of Higher Education and Scientific Research/University of Mosul/19
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	Introduction to Nodal Analysis, Dr. Hassan Jassim Muhammad, University of Mosul.
Electronic References, Websites	YouTube



1. Course Name: Topology

2. Course Code: HAEPSMA25F401

3. Semester / Year: First and Second Semesters of the Academic Year 2024-2025

4. Date of preparation of this description: 1-4-2025

5. Available Attendance Forms: attend

6. ∞ Number of Credit Hours (Total) / Number of Units (Total) :120/6

7. Course administrator's name (mention all, if more than one name)

Name: Lecturer Dr. Wafaa Younis Yahya

Email: rwafa1993@uohamdaniya.edu.iq

8. Course Objectives

Course Objectives

The study of Topology aims to provide a deep understanding of the basic concepts in Topology and their applications in mathematics and other sciences. Developing students' skills in analytical and creative thinking, and one of the main objectives of studying this subject.

1. **Understand the basic concepts:** the definition of distances, geometric shapes, similarities and differences between them.
2. **Studying structures:** Understanding the structures that can be present on different spaces, such as surfaces and shapes of different dimensions.
3. **Mathematical analysis:** The use of topological tools and concepts to analyze geometric shapes and other spaces in an accurate manner.
4. **Practical applications:** Understand how to apply the concepts of topology in solving mathematical and engineering problems, including applications in physics, engineering, and computational sciences.
5. **Creative Thinking:** Developing students' abilities to think creatively and use topological concepts in finding new solutions to mathematical and scientific problems.



9. Teaching and learning strategies

Strategy	1. Discovery learning: Encouraging students to infer concepts through practical examples or open-ended problems. Use activities that require critical thinking and reasoning. 2. Cooperative learning: dividing students into small groups to work on complex issues in the biology. Promote discussion among students to exchange ideas and solutions. 3. Problem-solving strategy: posing mathematical problems related to topology and encouraging students to find innovative solutions. Focus on applying theoretical concepts in practical situations. 4. Mind maps : The use of mind maps to clarify relationships between different concepts in the biology. Help students organize ideas and connect them to each other
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First Divorce	4	Theoretical knowledge and applied analysis	Tebologic space (Definition and Theorems)	UNTRANSLATED_CONTENT_START UNTRANSLATED_CONTENT_END	Direct questions.
Second	4	Theoretical knowledge and applied analysis	Tebologic space (Theorems)	Practical Application	Direct questions.
The third	4	Theoretical knowledge and applied analysis	Neighbors and their properties	UNTRANSLATED_CONTENT_START UNTRANSLATED_CONTENT_END	Direct questions.
Fourth	4	Theoretical knowledge and applied analysis	Open set with its own properties and reward	UNTRANSLATED_CONTENT_START UNTRANSLATED_CONTENT_END	Direct questions.
Fifth	4	Theoretical knowledge and applied analysis	Open set with its own properties and reward	UNTRANSLATED_CONTENT_START UNTRANSLATED_CONTENT_END	Direct questions.
Sixth	4	Theoretical knowledge and applied analysis	Foundation, Partial Foundation and Open Neighbour	UNTRANSLATED_CONTENT_START UNTRANSLATED_CONTENT_END	Direct questions.



			ood System		
The seventh	4	Theoretical knowledge and applied analysis	Derivative set	UNTRANSLATED_CONTENT_START UNTRANSLATED_CONTENT_END	Direct questions.
Eighth	4	Theoretical knowledge and applied analysis	External points of a group	UNTRANSLATED_CONTENT_START UNTRANSLATED_CONTENT_END UNTRANSLATED_CONTENT_START UNTRANSLATED_CONTENT_END	Direct questions.
Ninth	4		Resolve exercises with an exam		
tenth	4	Theoretical knowledge and applied analysis	The Relationship of Metric Space and Tabological Space	Plenary discussion / brainstorming	Direct questions.
11th Grade	4	Theoretical knowledge and applied analysis	Continuity in the Tebologic Space (Definition and Examples)	Lecture and Discussion , Brainstorming	Direct questions.
twentieth	4	Theoretical knowledge and applied analysis	Continuity in the Topological Space(Theo rems)	Brainstorming	Direct questions.
Thirteenth	4	Theoretical knowledge and applied analysis	Continuity Rewards	Lecture and Discussion	Direct questions.
Fourteenth	4	Theoretical knowledge	The open function and	Lecture and Discussion	Direct questions.



		and applied analysis	the closed function and their relationship to each other and to the continuous function		
Fifteenth	4	Theoretical knowledge and applied analysis	The open function and the closed function and their relationship to each other and to the continuous function	Lecture and Discussion	Direct questions.
Week 6	4	Theoretical knowledge and applied analysis	Construct Continuous, Open and Closed Functions	Lecture and Discussion	Direct questions.
Week 7	4	Theoretical knowledge and applied analysis	Multiplication Tabology	Lecture and Discussion	Direct questions.
Week 8	4	Theoretical knowledge and applied analysis	Tabology T_0	Lecture and Discussion	Direct questions.
Week 9	4	Theoretical knowledge and applied analysis	Tabologic - T_1 - T_2	UNTRANSLATED_CONTENT_START UNTRANSLATED_CONTENT_END	Direct questions.
Week 20	4		Resolve exercises with an		



			exam		
Week 21	4	Theoretical knowledge and applied analysis	Equivalents, properties and relationship between different types T_0 - T_1 - T_2	Lecture and Discussion	Direct questions.
Week Two	4	Theoretical knowledge and applied analysis	Equivalents, properties and relationship between different types T_0 - T_1 - T_2	Lecture and Discussion	Direct questions.
Week 23	4	Theoretical knowledge and applied analysis	Tabology T_3 - T_4	Brainstorming	Direct questions.
Week Four	4	Theoretical knowledge and applied analysis	Equivalents, properties and the relationship between different types T_3 - T_4 - T_0 - T_1 - T_2	Brainstorming	Direct questions Direct questions
Week 5	4	Theoretical knowledge and applied analysis	Equivalents, properties and the relationship between different types T_3 - T_4 - T_0 - T_1 - T_2	Brainstorming	Direct questions.
Week 26	4	Theoretical knowledge	Convergence in	Brainstorming	Direct questions.



		and applied analysis	Tebologic Spaces		
Week 7	4	Theoretical knowledge and applied analysis	Convergence in Tebologic Spaces	Brainstorming	Direct questions.
Week 8	4	Theoretical knowledge and applied analysis	Stacked Space (Definition and Proofs)	Brainstorming	Direct questions.
Week 9	4	Theoretical knowledge and applied analysis	Stacked Space (Definition and Proofs)	Brainstorming	Direct questions.
Week 30	4	Theoretical knowledge and applied analysis	Hein-Borel theorem	Lecture and Discussion	Direct questions.

11. Course Evaluation

- 1- Daily preparation, daily examinations and reports: 5 marks.
- 2- Monthly exams: 10 marks.
- 3- Mid-year exam: 25 marks.
- 4- End of year exam: 60 marks.

1. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Nouri Farhan Al-Mayahi, Tebology, Qadisiyah University, 2021
Main references (sources)	1. Mohammed Jawad Saad Eddin et al., General Tebology, University of Baghdad, First Edition, 1987 2. William Pervin, Fundamentals of General Topology, trans. Atallah Thamer Al-Ani, First Edition, University of Baghdad 1986
Recommended books and references (scientific journals, reports...)	1. Abd Rabbo Mohammed Salim, Jurisprudence of Tebology, Palestine First Edition, 1999



	2. Samir Bashir Hadid, Introduction to General Topology, University of Mosul, 1988 3. Ahmed Abdel Qader Ramadan and Taha Morsi Al-Adawi, General Topology, King Saud University. 4. Ghaffar Hussein Musa, Introduction to Topology, Dar Al-Masirah for Publishing, Distribution and Printing.
Electronic References, Websites	YouTube

Suggestions : Draw diagrams that illustrate topology concepts. Using mathematical software (e.g. Mathematica or GeoGebra) to

simulate topological concepts



Course Description Form

1. Course Name: Rings algebra	
2. Course Code: -----	
3. Semester / Year: year	
2025-2024	
4. Description Preparation Date: 1/5/2025	
5. Available Attendance Forms: attend	
6. Number of Credit Hours (Total) / Number of Units (Total) : 90/5	
7. Course administrator's name (mention all, if more than one name)	
Name: Sahbaa Abd alsttar	
Email: Sahbaa1977@uohamdaniya .edu.iq	
8. Course Objectives	
Course Objectives	Understanding the fundamentals of ring theory subrings, and ideals along with their conditions as well as comprehending fields and their interrelations. Developing students' skills in connecting ring theory with the fundamentals of algebra..... The skill-based objectives of the <i>Ring Theory</i> course in the third stage may include: The skill of connecting ring theory with abstract algebra. The ability of students to understand that rings are essentially algebraic structures defined with addition and multiplication operations, similar to those of



9. Teaching and Learning Strategies

Strategy

- Lecture
- Discussion
- Dialogue
- Applied Analysis
- Brainstorming

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Theoretical Knowledge Applied Analysis	Definition of Binary Operations	• Lecture - Discussion • Dialogue	Direct Question
2		Theoretical Knowledge	Definitions of R and Examples	Lecture Discussion Dialogue	Direct Question
3		Applied Analysis	Some Theorems Ring Properties	Lecture Discussion Dialogue	
4		Theoretical Knowledge	Definitions of Special Rings	Lecture Discussion Dialogue	
5		Applied Analysis	Definitions Subrings and Subexamples	Lecture	



				Discussion Dialogue	
6		Theoretical Knowledg	Characteristic of Ring and So Examples	Lecture Discussion Dialogue	
7		Applied Analysis	Ideals	Lecture Discussion Dialogue	
8		Theoretical Knowledg	Properties of Id and Examples	Lecture Discussion Dialogue	
9		Applied Analysis	Theorems on Ideals	Lecture Discussion Dialogue	
10		Theoretical Knowledg	Ring Homomorphisms	Lecture Discussion Dialogue	
11		Applied Analysis	Kernel of a Ring Some Examples	Lecture Discussion Dialogue	
12		Theoretical Knowledg	Fundamental Theorems on Ring	Lecture Discussion	



			Homomorphisms	Dialogue	
13		Applied Analysis	Solving Problems Ring Homomorphisms	Lecture Discussion Dialogue	
14		Theoretical Knowledg	Solving Chapter Exercises	Lecture Discussion Dialogue	
15		Applied Analysis	Definition of a Field	Lecture Discussion Dialogue	
16		Theoretical Knowledg	Examples of Fields	Lecture Discussion Dialogue	
17		Applied Analysis	Connecting Fields with Rings	Lecture Discussion Dialogue	
18		Theoretical Knowledg	Connecting Fields, Ideals, and Integral Rings	Lecture Discussion Dialogue	
19		Applied Analysis	Theorems on Relationship Between Fields and Rings	Lecture Discussion Dialogue	



20		Theoretical Knowledg	Examples of the Above	Lecture Discussion Dialogue	
21		Applied Analysis	Types of Ideals	Lecture Discussion Dialogue	
22		Theoretical Knowledg	Relationship Between Ty of Ideals	Lecture Discussion Dialogue	
23		Applied Analysis	relationship Betw Regular Ideals Regular Rings	Lecture Discussion Dialogue	
24		Theoretical Knowledg	Radical of an Ide	Lecture Discussion Dialogue	
25		Applied Analysis	Theorems on the Radical of Rings and Ideals	Lecture Discussion Dialogue	
26		Theoretical Knowledg	Connecting Radical of an I with Their	Lecture Discussion Dialogue	



27		Applied Analysis	Examples of Finding the Radical of Ideal	Lecture Discussion Dialogue	
28		Theoretical Knowledge	Definition of Decomposable and Essential	Lecture Discussion Dialogue	
28		Applied Analysis	Connecting Decomposable Ideals with Regular Ideals	Lecture Discussion Dialogue	
29		Theoretical Knowledge	Definition of Decomposable and Essential	Lecture Discussion Dialogue	
30		Applied Analysis	General Review with Monthly Exam	Lecture Discussion Dialogue	

11. Course Evaluation

Monthly Quizzes :15 marks
Midterm Exam :25 marks
Final Exam :60 marks

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Book: Ring Theory / Burton
Main references (sources)	Introduction to Ring Theory
Recommended books and references (scientific journals, reports...)	Introduction to Ring Theory / Safwan
Electronic References, Websites	YouTube



Course Description Form

1- Course name:	
Guidance & Psychological Health	
2-Course code:	
3-Chapter/Year:	
2025-2024	
4- Date of preparation of this description:	
09/5/2025	
5- Available attendance for	
In-person education	
6- Number of study hours (total) / Number of units (total)	
60 hour / 4 units	
7- Course Supervisor Name (if more than one name is mentioned)	
name: Ibrahim Mamiq Sultan Email: Ibrahim 1977 @uohamdaniya.edu.iq	
8- Course objectives	
1-With the concepts of guidance and mental health from (the goals of guidance and mental health, its terminology and the most important theories). 2-The field of the teacher-guide and educational counselor and his role in helping the student achieve psychological, educational and social harmony. 3-Means of collecting information, their importance, advantages and disadvantages of each. 4-Parent-teacher councils and their role in educational guidance.	Course objectives
9- Teaching and learning strategies	
The lecture.	



Discussion. Brainstorming. Cooperative groups. Self-learning. Homework and its submission in class by students Use of educational tools Science books, blackboard, colored pencils, slide projector (PowerPoint).	
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10- Course structure

Evaluation method	Teaching method	Unit name/topic	Required learning outcomes	hours	week
Feedback via direct questions	Lecture, discussion and dialogue	Guidance, the meaning of educational guidance, the origin and development of guidance and its concepts	Theoretical knowledge and practical educational application	2	the first
Feedback via direct questions	Lecture, discussion and dialogue	Justifications for guidance, its objectives, principles of guidance and direction	Theoretical knowledge and practical educational application	2	the second
Feedback via direct questions	Lecture, discussion and dialogue	The relationship between counseling and other sciences, areas of counseling	Theoretical knowledge and practical educational application	2	the third
Feedback via direct questions	Lecture, discussion and dialogue	Guidance methods (individual guidance, group guidance))	Theoretical knowledge and practical educational application	2	Fourth
Feedback via direct	Lecture, discussion	Foundations of guidance,	Theoretical knowledge and	2	Fifth



questions	and dialogue	philosophical, social	practical educational application		
Feedback via direct questions	Lecture, discussion and dialogue	Foundations of guidance, moral, religious, psychological	Theoretical knowledge and practical educational application	2	Sixth
Feedback via direct questions	Lecture, discussion and dialogue	Counseling theories	Theoretical knowledge and practical educational application	2	Seventh
Feedback via direct questions	Lecture, discussion and dialogue	Psychoanalytic theories	Theoretical knowledge and practical educational application	2	The eighth
Feedback via direct questions	Lecture, discussion and dialogue	behavioral theories	Theoretical knowledge and practical educational application	2	Ninth
Extracurricular activities	Lecture, discussion and dialogue	Existential and humanistic theories	Theoretical knowledge and practical educational application	2	tenth
Feedback via direct questions	Lecture, discussion and dialogue	Information needed for guidance, importance of information, types of information	Theoretical knowledge and practical educational application	2	eleventh
Feedback via direct questions	Lecture, discussion and dialogue	Information collection methods (cumulative record, case	Theoretical knowledge and practical educational application	2	twelfth



		study, narrative record, autobiography))			
Feedback via direct questions	Lecture, discussion and dialogue	Methods of collecting information (tests and measures, observation, interview))	Theoretical knowledge and practical educational application	2	thirteenth
Feedback via direct questions	Lecture, discussion and dialogue	Guidance and counseling in school, the counselor teacher - his duties and preparation, the educational counselor - his duties and preparation	Theoretical knowledge and practical educational application	2	fourteenth
Feedback via direct questions	Lecture, discussion and dialogue	Parent-Teacher Councils and their role in guidance, the need for guidance programs in schools	Theoretical knowledge and practical educational application	2	fifteenth
Feedback via direct questions	Lecture, discussion and dialogue	Problems addressed by educational guidance, meaning of mental health - its objectives - its importance	Theoretical knowledge and practical educational application	2	Week 16
Feedback via direct questions	Lecture, discussion and dialogue	Normal and abnormal person, normal and abnormal	Theoretical knowledge and practical educational	2	Seventeenth week



		personality standards	application		
Feedback via direct questions	Lecture, discussion and dialogue	Features of normal and abnormal behavior, personality integration	Theoretical knowledge and practical educational application	2	Eighteenth week
Feedback via direct questions	Lecture, discussion and dialogue	Personal crises	Theoretical knowledge and practical educational application	2	Nineteenth week
Feedback via direct questions	Lecture, discussion and dialogue	The meaning of crisis, the causes and sources of psychological crises	Theoretical knowledge and practical educational application	2	Week 20
Feedback via direct questions	Lecture, discussion and dialogue	Proper ways to solve psychological crises, frustration, and psychological disorders	Theoretical knowledge and practical educational application	2	Week twenty-one
Feedback via direct questions	Lecture, discussion and dialogue	Defensive mechanisms (defensive methods))	Theoretical knowledge and practical educational application	2	Week twenty-two
Feedback via direct questions	Lecture, discussion and dialogue	Origin of defensive behavior, development of defense mechanisms	Theoretical knowledge and practical educational application	2	Week twenty-three
Feedback via direct questions	Lecture, discussion and dialogue	Its types (compensation, reincarnation, reverse	Theoretical knowledge and practical educational	2	Week twenty-four



		formation, projection, justification and its phenomenon))	application		
Feedback via direct questions	Lecture, discussion and dialogue	Results of defensive behavior, escape methods (suppression, withdrawal, daydreaming, sleep dreams))	Theoretical knowledge and practical educational application	2	Week twenty-five
Feedback via direct questions	Lecture, discussion and dialogue	Escape methods, regression, cancellation, compensation	Theoretical knowledge and practical educational application	2	Week twenty-six
Feedback via direct questions	Lecture, discussion and dialogue	Pathological, defensive, and escape symptoms	Theoretical knowledge and practical educational application	2	Week twenty-seven
Feedback via direct questions	Lecture, discussion and dialogue	Compatibility, meaning of compatibility, nature of compatibility, types of compatibility	Theoretical knowledge and practical educational application	2	Week twenty-eight
Feedback via direct questions	Lecture, discussion and dialogue	Characteristics of a compatible person, adaptation, compatibility and the relationship between them	Theoretical knowledge and practical educational application	2	Week twenty-nine
Feedback via direct questions	Lecture, discussion and		Theoretical knowledge and practical	2	Week 30



	dialogue		educational application		
11- Course Evaluation					
The grade is distributed out of 100 based on the tasks assigned to the student, such as daily preparation, daily, oral, monthly and written exams, reports, etc.					
12- Learning and teaching resources					
Principles of Guidance and Psychological Counseling, Sami Muhammad Malham, 2010, Amman, Dar Al Masirah Publishing and Distribution. - Zahran, Hamed Abdel Salam, 1980, Guidance and Psychological Counseling, Alam Books, Cairo.			Required textbooks (methodology if available)		
- Psychological Guidance and Educational Guidance, Mustafa Mahmoud Al-Imam (1991) University of Baghdad Principles of psychological counseling for psychological counselors, Muhammad Ahmad Mashaqa (2008) Amman - Dar Al Manahj for Publishing and Distribution. - Guidance and Psychological Counseling, Hamed Zahran (2005) Cairo The world of books			Primary References (Sources)		
- Personality Psychology, Dawood Aziz Hanna, and Nazim Hashim Al-Obaidi, 1990, University of Baghdad			Recommended mainstream books and references (scientific journals, reports)		
- Al Noor Library (electronic library) is free on the search engine. Google contains a variety of specialized sources.			Electronic references, websites		



Course Description Form

1. Course Name :
Curricula and teaching methods
2. Course Code :
HAEPSMA25M305
3. Semester/year
2025-2024
4. Description Preparation Data :
1/5/2025
5. Available Attendance Forms :
Classroom Attendance
6. Number of Credit Hours (Total) / Number of Units (Total) :
60 / 4
7. Course administrator's name (mention all, if more than one name) :
Name: Assistant teacher Hajir Hayder Abdullah Email : hajarhayder@uohamdaniya.edu.iq

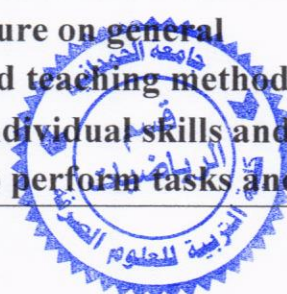
8. Course Objectives

Course Objectives	
	- Demonstrate the student's ability to distinguish between teaching theory and learning theory and between teaching methods and teaching methods, strategies and models. - Adjust the concept of teaching skills and the components of teaching skills that are planning skill, implementation skill and evaluation skill. - The ability to find the difference between effective teaching and creative teaching and to understand the principles of



creative teaching.

- Distinguish between an effective teacher and an ineffective teacher, identify the diversification of teaching strategies, identify the psychological and educational foundations for diversifying teaching, and mention the things that should be avoided while applying teaching diversification strategies.
- Give the student practical examples of the lecture method, the method of discussion and the method of interrogation .
- Adjusting teaching methods that are based on research and adjusting the methods of cooperative and individual learning.
- Making the student able to distinguish between teaching methods of mastery and creativity .
- To solve some of the questions addressed to him regarding how to apply modern teaching methods
- The student is excited about the practical application associated with some concepts in the course
- The student should be keen to attend a lecture on general curricula and teaching methods
- Acquiring individual skills and the ability to perform tasks and



	build the student's personality • Developing the student's ability to deal with technical means • Developing the student's ability to employ means of communication for scientific and research purposes • Developing the student's ability to dialogue and group discussion • Developing the student's ability to explain some concepts related to modern teaching methods • The skill of analyzing the content of the scientific material
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9. Teaching and Learning Strategies

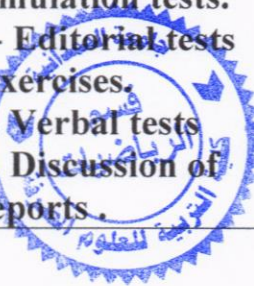
Strategy	1- Learning through cooperation between students . 2- Lectures accredited by reliable sources. 3- Participation of students in the lecture by asking some questions that have priorities already raised. 4- Provide part of the lecture time for the questions. 5- Giving some privileges to outstanding students when answering questions. 6. The goal should be clear and specific . 7-The goal should be simplified and uncomplicated. 8-The objective should include the standard or the level of expected performance. 9- Managing the lecture in a way that indicates the importance of time . 10- Assigning students some group duties. 11- Assigning students to collect sources and references and write a report on the title of the lecture .
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10.Course Structure

Week	Hours	Required learning outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Defining theory,	Introduction to Teaching	According to the	1- Weekly tests.



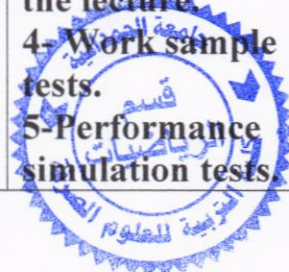
		teaching theory and teaching methods and identifying the criteria for determining the appropriate teaching method.	Methods, The Concept of Teaching Theory.	above education strategies	Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9- Applied tests.
2	2	Defining theory, teaching theory and teaching methods and identifying the criteria for determining the appropriate teaching method.	Teaching Theory Interests.	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
3	2	Defining theory, teaching theory and teaching methods and identifying the criteria for determining the appropriate teaching method.	The importance of teaching theory.	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports .



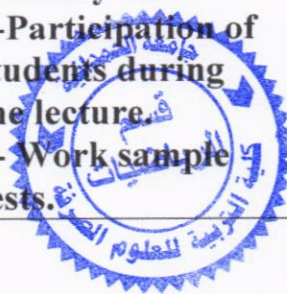
					9. Applied tests
4	2	Defining theory, teaching theory and teaching methods and identifying the criteria for determining the appropriate teaching method.	The relationship between teaching theory and learning theory.	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
5	2	Defining theory, teaching theory and teaching methods and identifying the criteria for determining the appropriate teaching method.	Examples of teaching theory.	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
6	2	Defining theory, teaching theory and teaching methods and identifying the criteria for determining the	Teaching methods, the importance of the teacher's knowledge of teaching methods.	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises.



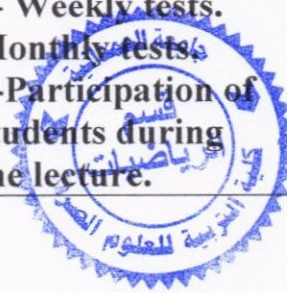
		appropriate teaching method.			7. Verbal tests 8. Discussion of reports . 9. Applied tests
7	2	Defining theory, teaching theory and teaching methods and identifying the criteria for determining the appropriate teaching method.	Criteria for determining the appropriate teaching method.	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
8	2	Defining theory, teaching theory and teaching methods and identifying the criteria for determining the appropriate teaching method.	Teaching methods, forms of teaching methods.	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
9	2	Defining theory, teaching theory and teaching methods and identifying the criteria for	Teaching strategies, teaching models.	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests.



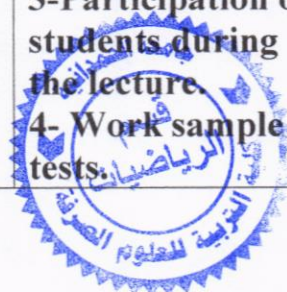
		determining the appropriate teaching method.			6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
10	2	Defining theory, teaching theory and teaching methods and identifying the criteria for determining the appropriate teaching method.	Teaching Design + Half Course Exam	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
11	2	Adjust the concept of teaching skills and the components of teaching skills that are planning skill, implementation skill and evaluation skill.	teaching skills	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
12	2	Adjusting the concept of teaching skills and the components of teaching skills that	Components of Teaching Skills Planning Skill, Implementation Skill, Evaluation	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests.



		are planning skill, implementat ion skill and evaluation skill	Skill		5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
13	2	Adjusting the concept of teaching skills and the components of teaching skills that are planning skill, implementat ion skill and evaluation skill	Effective teaching, effective teacher.	Accordin g to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
14	2	The ability to find the difference between effective teaching and creative teaching and to understand the principles of creative teaching	Creative teaching	Accordin g to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
15	2	- The ability to find the difference between effective	Principles of creative teaching (the principle of suggestion ,	Accordin g to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture.



		teaching and creative teaching and to understand the principles of creative teaching	the principle of confrontation , the principle of treatment , the principle of rooting)		4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
16	2	Enabling the student to define the diversification of teaching and its strategies and mentioning the psychological foundations for diversifying teaching and the justifications for diversifying teaching while mentioning effective strategies in diversifying teaching	Diversification of teaching , psychological and educational foundations to diversify teaching	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
17	2	Enabling the student to define the diversification of teaching and its strategies	Justifications for diversifying teaching , effective strategies for diversifying	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests.



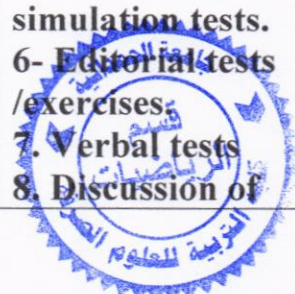
		and mentioning the psychological foundations for diversifying teaching and the justifications for diversifying teaching while mentioning effective strategies in diversifying teaching .	teaching .		5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
18	2	Enabling the student to define the diversification of teaching and its strategies and mentioning the psychological foundations for diversifying teaching and the justifications for diversifying teaching while mentioning effective strategies in	Important skills for applying teaching diversification strategies.	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests



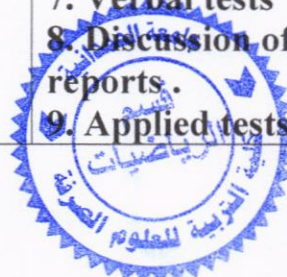
		diversifying teaching .			
19	2	Enabling the student to define the diversification of teaching and its strategies and mentioning the psychological foundations for diversifying teaching and the justifications for diversifying teaching while mentioning effective strategies in diversifying teaching .	Things to avoid while applying teaching diversification strategies.	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
20	2	Giving the student practical examples of the lecture method, and the method of interrogation	Commonly used teaching methods (lecture method, interrogation method)	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests



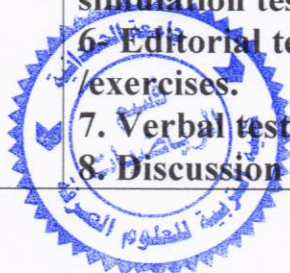
21	2	Giving the student practical examples of the method of discussion and the method of induction and measurement	Commonly used teaching methods (discussion method, induction and measurement method)	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
22	2	Giving the student practical examples of the method of investigation and the method of solving problems	Teaching methods based on researching and organizing knowledge (investigation method, problem-solving method)	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
23	2	Give the student practical examples of the modular method and the project method	Teaching methods based on researching and organizing knowledge (modular method, project method)	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of



					reports . 9. Applied tests
24	2	Giving the student practical examples of the method of appointments	Teaching methods based on researching and organizing knowledge (recruitment method)	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
25	2	Adjusting teaching methods that are based on research and adjusting cooperative and individual learning methods	Collaborative Learning Method + Half Course Exam	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests



26	2	Adjusting teaching methods that are based on research and adjusting cooperative and individual learning methods	طريقة التعلم	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
27	2	Making the student able to distinguish between teaching methods of mastery and creativity	Teaching methods for mastery and creativity (learning method for mastery)	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
28	2	Making the student able to distinguish between teaching methods of mastery and creativity	Teaching Methods for Empowerment and Creativity (Role play)	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of



					reports . 9. Applied tests
29	2	Making the student able to distinguish between teaching methods of mastery and creativity	Teaching Methods for Empowerment and Creativity Brainstorming	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests
30	2	Making the student able to distinguish between teaching methods of mastery and creativity	Teaching methods for empowerment and creativity(inte rdependence and integration in teaching methods)	According to the above education strategies	1- Weekly tests. Monthly tests. 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests. 6- Editorial tests /exercises. 7. Verbal tests 8. Discussion of reports . 9. Applied tests

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

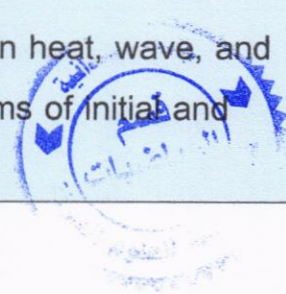


12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Textbook of Teaching Methods of Mathematics for the Fourth Stage/Teacher Training Institutes
Main references (sources)	Teaching methods used by faculty members in the corresponding departments of some faculties of the University of Mosul 1997 .
Recommended books and references (scientific journals, reports...)	The theoretical foundations of some of the educational methods used in teaching history 1997 .
Electronic References, Websites	-



Cours Description Template

1. Course Name	
Partial Differential Equations	
2. Code/No.	
3. Semester/year	
Year 2025-2024	
4. date of preparation This description	
1/5/2025	
5. Available Attendance Modes	
In person Learning	
6. Number of study hours (total) / Number of units (total)	
90 (hours) / 5 units	
7. Course instructor name	
Name: Raed Sabeeh Wafaa Salih Ramadan Email: raedsabeeh@uohamdaniya.edu.iq Email: wafamath@uohamdaniya.edu.iq	
8. Cours Aims	
Course objectives	1. This course aims to study partial differential equations, their origin, classification, and methods of solving the 2. Enabling the student to solve partial differential equations of order (n). 3. Studying some physical applications of second-order partial differential equations 4. Using partial differential equations in heat, wave, and Laplace equations, as well as problems of initial and boundary values.

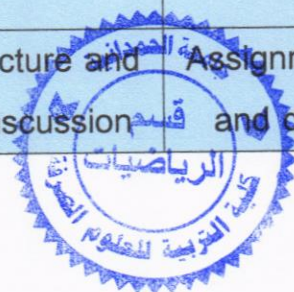


9.Teaching and learning strategies	
Strategy	1.Lecture, discussion, dialogue, and daily assignments . 2.Daily surprise tests and ongoing weekly quizzes 3.Classroom exercises and activities . 4.Guiding students to resources containing examples and exercises for their benefit.

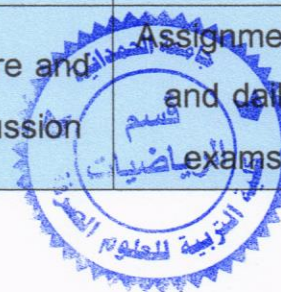
10 . Course Structure					
week	Credits hours	Intended learning outcomes	Unit Name / or Course	Learning method	Assessment Method
1	3	Theoretical Knowledge and applied Analysis	Classification of partial Differential Equations	Lecture and Discussion	Assignments and daily exams
2	3	Theoretical Knowledge and applied Analysis	Solving Exercises	Lecture and Discussion	Assignments and daily exams
3	3	Theoretical Knowledge and applied Analysis	Elimination of Arbitrary Constants	Lecture and Discussion	Assignments and daily exams
4	3	Theoretical Knowledge and applied	Solving Exercises	Lecture and Discussion	Assignments and daily exams



		Analysis			
5	3	Theoretical Knowledge and applied Analysis	Elimination of Arbitrary Functions	Lecture and Discussion	Assignments and daily exams
6	3	Theoretical Knowledge and applied Analysis	Solving Exercises	Lecture and Discussion	Assignments and daily exams
7	3	Theoretical Knowledge and applied Analysis	Solving First – Order Linear partial Differential Equations	Lecture and Discussion	Assignments and daily exams
8	3	Theoretical Knowledge and applied Analysis	Solving Exercises	Lecture and Discussion	Assignments and daily exams
9	3	Theoretical Knowledge and applied Analysis	Solving First – Order Non–Linear partial Differential Equations	Lecture and Discussion	Assignments and daily exams
10	3	Theoretical Knowledge and applied Analysis	Charpit's Method for Solving Non – Linear Equations	Lecture and Discussion	Assignments and daily exams
11	3	Theoretical Knowledge	Solving Exercises	Lecture and Discussion	Assignments and daily



		and applied Analysis			exams
12	3	Theoretical Knowledge and applied Analysis	Solving Equations with Constant Coefficients	Lecture and Discussion	Assignments and daily exams
13	3	Calculation and classifying Extreme values	Solving Exercises	Lecture and Discussion	Assignments and daily exams
14	3	Theoretical Knowledge and applied Analysis	Solving Non- Factorizable + Exercises	Lecture and Discussion	Assignments and daily exams
15	3	Theoretical Knowledge and applied Analysis	Finding the particular solution of Equations with Constant Coefficients	Lecture and Discussion	Assignments and daily exams
16	3	Theoretical Knowledge and applied Analysis	Solving Exercises	Lecture and Discussion	Assignments and daily exams
17	3	Theoretical knowledge and applied analysis	Differential Equations Similar to Euler's Equation	Lecture and Discussion	Assignments and daily exams
18	3	Theoretical Knowledge and applied	Solving Exercises	Lecture and Discussion	Assignments and daily exams



		Analysis			
19	3	Theoretical Knowledge and applied Analysis	Partial Differential Equations with Variable Coefficients + Exercises	Lecture and Discussion	Assignments and daily exams
20	3	Theoretical Knowledge and applied Analysis	Second –Order partial Differential Equations	Lecture and Discussion	Assignments and exams
21	3	Theoretical Knowledge and applied Analysis	Monthly Exam		
22	3	Theoretical Knowledge and applied Analysis	Fourier Series	Lecture and Discussion	Assignments and daily exams
23	3	Theoretical Knowledge and applied Analysis	Solving Exercises	Lecture and Discussion	Assignments and daily exams
24	3	Theoretical Knowledge and applied Analysis	Boundary Value Problems	Lecture and Discussion	Assignments and daily exams
25	3	Theoretical Knowledge and applied Analysis	Solving Exercises	Lecture and Discussion	Assignments and daily exams



26	3	Theoretical Knowledge and applied Analysis	Wave Equation	Lecture and Discussion	Assignments and daily exams
27	3	Theoretical Knowledge and applied Analysis	Monthly Exam		
28	3	Theoretical Knowledge and applied Analysis	Heat Equation	Lecture and Discussion	Assignments and daily exams
29	3	Theoretical Knowledge and applied Analysis	Laplace Transforms and Their Applications	Lecture and Discussion	Assignments and daily exams
30	3	Theoretical Knowledge and applied Analysis	Solving Exercises	Lecture and Discussion	Assignments and daily exams

11.Evaluation of the Course

Monthly Quizzes :15 marks

Midterm Exam :25 marks

Final Exam: 60 marks

12.Resources for Teaching and Learning



Required textbooks (if any)	1.Jhon.F. / Partial differential Equations 2. Partial Differential Equations / Dr. Atta Allah Thamer Al-Ani
Main References	
Supporting Books and References Recommended (Scientific Journals , Reports,....)	The most important books and resources on partial differential equations available in the Central Library
Electronic Refernces,Internet Sites	-Reliable websites - Virtual library



Course Description Form

1. Course Name:	Probability
2. Course Code:	
3. Semester / Year:	2025-2024
4. Description Preparation Date:	1/5/2025
5. Available Attendance Forms:	In-person learning
6. Number of Credit Hours (Total) / Number of Units (Total)	120 hours / 6 units
7. Course administrator's name (mention all, if more than one name)	
Name: Waleed AbdulMajeed Sard	
Email: waleedhajo@uohamdaniya.edu.iq	

8. Course Objectives	
Course Objectives	- To introduce students to the concepts of statistics and probability and their applications. - To develop students' skills in conducting statistical operations and broadening their understanding of its application to large populations. - To enable students to master the principles of counting. - To develop students' skills in applying probability theory and its laws.

9. Teaching and Learning Strategies	
Strategy	The instructor has full control over the teaching and learning environment, including planning, implementation, and follow-up. The learner is a passive recipient, and the focus is on the cognitive aspects of the science, such as facts, concepts, and theories. Examples include lectures, using theoretical and practical textbooks, and solving problems

10. Course Structure					
Week	H ou rs	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	4	Theoretical Knowledge and Applied Analysis	Nature of Statistics - Population - Sample	Lecture, discussion, and dialogue	Direct questions
Second	4	Theoretical Knowledge and Applied Analysis	Data tabulation and creating a distribution table	Lecture, practical application	Direct questions
Third	4	Theoretical Knowledge and Applied Analysis	Graphical analysis and measures of central tendency, correlation	Lecture, discussion, and dialogue	Direct questions
Fourth	4	Theoretical Knowledge and Applied Analysis	Measures of dispersion	Lecture, discussion, and dialogue	Direct questions

Fifth	4	Theoretical Knowledge and Applied Analysis	Variance and standard deviation, coefficient of variation, and standard score	Lecture, discussion, and dialogue	Direct questions
Sixth	4	Theoretical Knowledge and Applied Analysis	Correlation	Lecture, discussion, and dialogue	Direct questions
Seventh	4	Theoretical Knowledge and Applied Analysis	Regression - Monthly exam	Lecture, discussion, and dialogue	Direct questions
Ninth	4	Theoretical Knowledge and Applied Analysis	Probability - Counting methods	Lecture, discussion, and dialogue	Direct questions
Tenth	4	Theoretical Knowledge and Applied Analysis	Permutations and combinations	Lecture, practical application	Direct questions
Eleventh	4	Theoretical Knowledge and Applied Analysis	Samples, random experiment, event and its types	Discussion, brainstorming	Direct questions
Thirteenth	4	Theoretical Knowledge and Applied Analysis	Definition of probability and its axioms	Lecture, discussion, brainstorming	Direct questions
Fifteenth	4	Theoretical Knowledge and Applied Analysis	Finite and infinite probability space and conditional probability	Lecture, brainstorming	Direct questions
Seventeenth	4	Theoretical Knowledge and Applied Analysis	Multiplication theorem in conditional probability	Lecture and discussion	Direct questions
Eighteenth	4	Theoretical Knowledge and Applied Analysis	Random processes	Lecture and discussion	Direct questions
Nineteenth	4		Monthly exam		
Twentieth	4	Theoretical Knowledge and Applied Analysis	Bayes' Theorem	Lecture discussion and	Direct questions
Twenty-first	4	Theoretical Knowledge and Applied Analysis	Independence and repeated processes	Lecture discussion and	Direct questions
Twenty-second	4	Theoretical Knowledge and Applied Analysis	Independent or repeated trials	Lecture discussion and	Direct questions
Twenty-third	4	Theoretical Knowledge and Applied Analysis	Random variables and their types	Lecture discussion and	Direct questions
Twenty-fourth	4	Theoretical Knowledge and Applied Analysis	Discrete probability distributions	Lecture discussion and	Direct questions
Twenty-fifth	4	Theoretical Knowledge and Applied Analysis	Continuous distributions and probability function	Lecture, discussion, and dialogue	Direct questions
Twenty-sixth	4		Monthly exam		
Twenty-seventh	4	Theoretical Knowledge and Applied Analysis	Mathematical expectation for discrete variables	Lecture, discussion, and dialogue	
Twenty-eighth	4	Theoretical Knowledge and Applied Analysis	Mathematical expectation for continuous variables	Lecture, practical application	
Twenty-ninth	4	Theoretical Knowledge and Applied Analysis	Variance and standard deviation	Lecture, discussion, and dialogue	
Thirtieth	4	Theoretical Knowledge and Applied Analysis	Joint probability distribution, conditional expectation	Lecture, discussion, and dialogue	

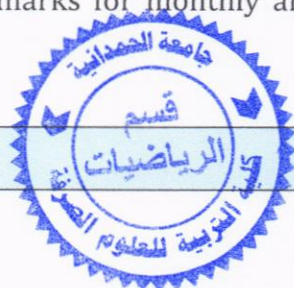
11. Course Evaluation

Mid-term exam: 25 marks.

Instructor assessment: 15 marks (5 marks for student attendance + 10 marks for monthly and daily exams).

Final exam: 60 marks.

12. Learning and Teaching Resources

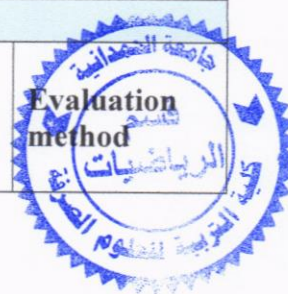


Required textbooks (curricular books, if any)	Probability Theory, Schaum's series
Main references (sources)	Probability Theory
Recommended books and references (scientific journals, reports...)	Schaum's series.
Electronic References, Websites	YouTube.



Course Description Form

1. Course Name:					
Numerical Analysis					
2. Course Code:					
3. Semester / Year:					
2024-2025					
4. Description Preparation Date:					
1/4/2025					
5. Available Attendance Forms:					
My presence					
6. Number of Credit Hours (Total) / Number of Units (Total)					
120/ 6 (Units)					
7. Course administrator's name (mention all, if more than one name)					
Name: Sarah Ghanim Mahmood Alkabachee					
Email: sarahghanim@uohamdaniya.edu.iq					
8. Course Objectives					
Course Objectives			Introducing students to the study of numerical mathematical methods for finding approximate solutions to some mathematical problems that arise when applying mathematics in its various directions in pure and applied sciences, and their comparability, accuracy, and stability. Numerical analysis is a branch of faculty active in the field of approximation work. It includes methods for using approximate but accurate numerical solutions, which is useful in cases where a magic solution is not available or is too expensive to calculate.		
9. Teaching and Learning Strategies					
Strategy		• Lectures – Discussion sessions – Solving exercises. • Guiding students to use books and scientific journals independently.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject na	Learning method	Evaluation method



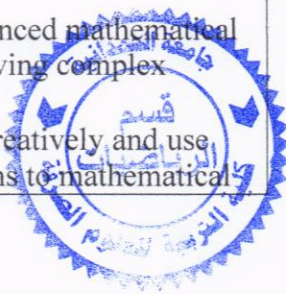
1	4	Theoretical knowledge and applied analysis	Introduction to Numerical Analysis	Discussion and dialogue	Direct questions
2	4	Theoretical knowledge and applied analysis	Types of Errors	Discussion and dialogue	Direct questions
3	4	Theoretical knowledge and applied analysis	Introduction to Solving Nonlinear Equations	Discussion and dialogue	Direct questions
4	4	Theoretical knowledge and applied analysis	Graphical Method	Discussion and dialogue	Direct questions
5	4	Theoretical knowledge and applied analysis	Analytical Method	Discussion and dialogue	Direct questions
6	4	Theoretical knowledge and applied analysis	Introduction to Numerical Methods for Solving Nonlinear Equations	Discussion and dialogue	Direct questions
7	4	Theoretical knowledge and applied analysis	Bisection Method	Discussion and dialogue	Direct questions
8	4	Theoretical knowledge and applied analysis	Pseudolocus Method	Discussion and dialogue	Direct questions
9	4	Theoretical knowledge and applied analysis	Cstant Method	Discussion and dialogue	Direct questions
10	4	Theoretical knowledge and applied analysis	Stable Point Method	Discussion and dialogue	Direct questions
11	4	Theoretical knowledge and applied analysis	Newton-Raphson Method	Discussion and dialogue	Direct questions
12	4	Theoretical knowledge and applied analysis	Solving Systems of Nonlinear Equations	Discussion and dialogue	Direct questions
13	4	Theoretical knowledge and applied analysis	Numerical Solution of Systems of Linear Equations	Discussion and dialogue	Direct questions
14	4	Theoretical knowledge and applied analysis	Monthly Exam	Discussion and dialogue	Direct questions
15	4	Theoretical knowledge and applied analysis	Iterative Methods	Discussion and dialogue	Direct questions
16	4	Theoretical knowledge and applied analysis	Direct Methods	Discussion and dialogue	Direct questions
17	4	Theoretical knowledge and applied analysis	Introduction to Inclusion	Discussion and dialogue	Direct questions
18	4	Theoretical knowledge and applied analysis	Applied Examples	Discussion and dialogue	Direct questions
19	4	Theoretical knowledge and applied analysis	Finite Differences	Discussion and dialogue	Direct questions
20	4	Theoretical knowledge and applied analysis	Forward Differences	Discussion and dialogue	Direct questions
21	4	Theoretical knowledge and applied analysis	Examples	Discussion and dialogue	Direct questions
22	4	Theoretical knowledge and applied analysis	Central Differences	Discussion and dialogue	Direct questions
23	4	Theoretical knowledge and applied analysis	Examples	Discussion and dialogue	Direct questions
24	4	Theoretical knowledge and applied analysis	Regressive Differences	Discussion and dialogue	Direct questions
25	4	Theoretical knowledge and applied analysis	Examples	Discussion and dialogue	Direct questions
26	4	Theoretical knowledge and applied analysis	Finite Differences	Discussion and dialogue	Direct questions
27	4	Theoretical knowledge and applied analysis	Relative Differences	Discussion and dialogue	Direct questions
28	4	Theoretical knowledge and applied analysis	Introduction to Numerical Integration	Discussion and dialogue	Direct questions
29	4	Theoretical knowledge and applied analysis	Trapezoidal Method	Discussion and dialogue	Direct questions

30	4	Theoretical knowledge applied analysis	Simpson's Method	Discussion and dialogue	Direct questions
11.Course Evaluation					
• 20 marks – Monthly exams • 10 marks – Attendance and daily quizzes • 20 marks – Midterm exam • 50 marks – Final exam					
• 100 marks – Total score					
12.Learning and Teaching Resources					
Required textbooks (curricular books any)		1- التحليل العددي المعادلة اللاخطية، الأنظمة الخطية، الاندراج، التفاضل والتكامل العددي. 2- التحليل العددي وطرق حسابه العددية.			
Main references (sources)					
Recommended books and references (scientific journals, reports...)		3- <i>Numerical Analysis Using MATLAB® and Excel®, Steven T. Karris</i> , Third Edition. 4- <i>Numerical Methods Using MATLAB®</i> Fourth Edition			
Electronic References, Websites					



Course Description Template for the Academic Year 2025–2024

1. Course Name	
Mathematical Analysis	
2. Course Code	
HAEPSMA25F300	
3. Semester/ Year	
First and Second Semesters, Academic Year 2025–2024	
4. Description Preparation Date	
01-05-2025	
5. Available Attendance Forms	
In-person learning	
6. Number of Credit Hours (Total) / Number of Units (Total)	
120 Hours/6	
7. Course administrator's name (mention all, if more than one name)	
Name: Lecturer Dr. Wafaa Younis Yahya Email: rwafa1993@uohamdaniya.edu.iq	
8. Course Objectives	
Course Objectives	Understanding Fundamental Mathematical Concepts: Identifying the core concepts of mathematical analysis such as limits, differentiation and integration, sequences, infinite series, and others. Developing Analytical Skills: Enhancing students' ability to critically analyze mathematical problems and use appropriate methods to solve them. Applications of Mathematics in Other Fields: Demonstrating how mathematical analysis can be applied in fields such as physics, engineering, and economics. Advancing Computational Skills: Developing advanced mathematical computation skills and understanding their use in solving complex mathematical problems. Creative Thinking: Encouraging students to think creatively and use mathematical imagination in developing new solutions to mathematical problems.



	problems. • Preparation for Higher Levels: Equipping students to comprehend advanced mathematical subjects in higher academic levels, such as real analysis and differential algebra. • Enhancing Communication Skills: Improving mathematical communication skills, including the ability to explain mathematical ideas and present solutions logically and clearly. • Building Self-Confidence: Strengthening students' confidence in their ability to solve complex mathematical problems and effectively apply analytical concepts. These objectives aim to foster positive interaction between students and the subject, and to facilitate effective learning of mathematical analysis.
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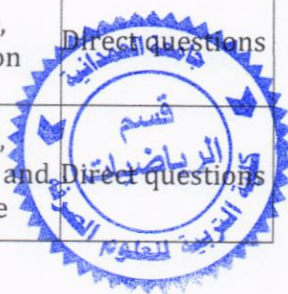
9. Teaching and Learning Strategies

Strategy	• Discovery Learning: Encouraging students to derive concepts through practical examples or open-ended problems, using activities that require critical thinking and inference. • Cooperative Learning: Dividing students into small groups to work on complex problems in topology, promoting discussion among students to exchange ideas and solutions. • Problem-Solving Strategy: Presenting mathematical problems related to topology and encouraging students to find innovative solutions, with a focus on applying theoretical concepts to practical situations. • Mind Maps: Using mind maps to illustrate the relationships between different concepts in topology, helping students organize ideas and connect them to one another.
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Theoretical knowledge and applied analysis	The field of real numbers and its properties	Lecture, discussion, and dialogue	Direct questions
2	4	Theoretical knowledge and applied analysis	The field of real numbers and its properties	Lecture, practical application	Direct questions
3	4	Theoretical knowledge and applied analysis	Absolute value and its properties	Lecture, discussion, and dialogue	Direct questions
4	4	Theoretical knowledge and applied analysis	Density of rational and irrational numbers	Lecture, discussion, and dialogue	Direct questions
5	4	Theoretical knowledge and	Density of rational and irrational numbers	Lecture, discussion, and	Direct questions

		applied analysis		dialogue	
6	4	Theoretical knowledge and applied analysis	Sequences – definition and examples	Lecture, discussion, and dialogue	Direct questions
7	4	Theoretical knowledge and applied analysis	Theorems on sequences	Lecture, discussion, and dialogue	Direct questions
8	4	Theoretical knowledge and applied analysis	Convergent sequences	Lecture, discussion, and dialogue	Direct questions
9	4	-	Solving exercises with an exam	-	-
10	4	Theoretical knowledge and applied analysis	Bounded and fundamental sequences	Discussion, brainstorming	Direct questions
11	4	Theoretical knowledge and applied analysis	Metric space – definition and examples	Lecture, discussion, brainstorming	Direct questions
12	4	Theoretical knowledge and applied analysis	Sequences in metric space	Lecture, brainstorming	Direct questions
13	4	Theoretical knowledge and applied analysis	Fundamental theorems	Lecture, discussion	Direct questions
14	4	Theoretical knowledge and applied analysis	Continuity in metric space	Lecture, discussion	Direct questions
15	4	Theoretical knowledge and applied analysis	Theorems on continuity in metric space	Lecture, discussion	Direct questions
16	4	Theoretical knowledge and applied analysis	Continuous and discontinuous applications	Lecture, discussion	Direct questions
17	4	Theoretical knowledge and applied analysis	Continuous functions on compact spaces	Lecture, discussion	Direct questions
18	4	Theoretical knowledge and applied analysis	Uniform continuity	Lecture, discussion	Direct questions
19	4	Theoretical knowledge and applied analysis	The Mean Value Theorem	Lecture, discussion, and dialogue	Direct questions



20	4	-	Solving exercises with an exam	-	-
21	4	Theoretical knowledge and applied analysis	Integrals – Riemann integral: definition and origin	Lecture, discussion	Direct questions
22	4	Theoretical knowledge and applied analysis	Integrals – Riemann integral: properties and theorems	Lecture, discussion	Direct questions
23	4	Theoretical knowledge and applied analysis	Bounded functions integrable in the Riemann sense	Lecture, brainstorming	Direct questions
24	4	Theoretical knowledge and applied analysis	The linear space of Riemann functions	Lecture, brainstorming	Direct questions
25	4	Theoretical knowledge and applied analysis	Linear applications – examples and properties	Lecture, brainstorming	Direct questions
26	4	Theoretical knowledge and applied analysis	Linear applications – examples and properties	Lecture, brainstorming	Direct questions
27	4	Theoretical knowledge and applied analysis	Lebesgue integral – definition and origin	Lecture, brainstorming	Direct questions
28	4	Theoretical knowledge and applied analysis	Lebesgue integral – definition and origin	Lecture, brainstorming	Direct questions
29	4	Theoretical knowledge and applied analysis	Lebesgue integral – properties	Lecture, brainstorming	Direct questions
30	4	Theoretical knowledge and applied analysis	Additional theorems on Lebesgue integral	Lecture, discussion	Direct questions

11. Course Evaluation

Grade distribution (out of 100), according to the tasks assigned to the student — such as daily preparation, daily and oral quizzes, monthly written exams, reports, etc.

1. Daily Preparation, Quizzes, and Reports: 5 marks.
2. Monthly examinations: 10 marks.
3. Mid-year examination: 25 marks.
4. Final (end-of-year) examination: 60 marks.

12. Learning and Teaching Resources



Required textbooks (curricular books, if any)	Adel Ghassan Naoum, <i>Introduction to Mathematical Analysis</i> , University of Baghdad, Iraq, 1986
Main references (sources)	Noori Farhan Al-Mayahi, <i>Introduction to Mathematical Analysis</i> , University of Al-Qadisiyah, Iraq, 2014
Recommended books and references (scientific journals, reports...)	• Ali Aziz Ali, Abdul-Razzaq Ali Al-Haswan, and Adel Zambal Hussein, <i>Principles of Mathematics: Differential and Integral Calculus</i>, Ministry of Higher Education and Scientific Research, Iraq, 1986. • Apostol, T.M., <i>Mathematical Analysis</i>, 1974. • Ash, R.B., <i>Real Analysis and Probability</i>, 1972.
Electronic References, Websites	YouTube



Course Description Form

1. Course Name	
Secondary Education, Administration Educational and Supervision	
2.Code/No.	
3.Term / Year	
Academic year 2024-2025	
4.Date of preparation of this description	
1/10/2024	
5.Available Attendance Forms	
In person education	
6.Number of study hours (total)/number of units (total)	
60 ours /4 units	
7.Name of course administrator (if more than one name is mentioned)	
Name: Asst.Lect.Shawky Sabah Behnam Email: shawqi.bahnam@uohamdaniya.edu.iq:	
8.Course Objectives	
Objectives of the course	Introducing students of the second stage to additional sections of secondary education and educational supervision such as secondary schools, its system, centralized and decentralized administration, educational administration, educational supervision and the role of the principal in schools, in addition to understanding the basics of the concept of



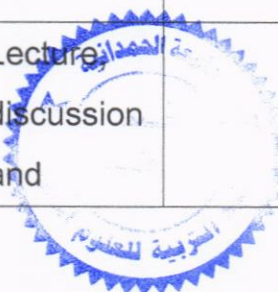
	administration and supervision, which students must know the meaning of secondary education, its objectives, types and importance, and understand the components of school administration, elements of school administration, factors for the success of school planning, which students must be able to understand and know the administrative systems and their importance in the educational process.
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9. Teaching and Learning Strategies

Strategy	Lecture, discussion, collaborative method, dialogue, applied analysis and brainstorming for educational supervision.
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10. Course Structure

Week	Hours	Intended Learning Outcomes	Module Name or Topic	Learning Method	Method of Evaluation
First	2	Theoretical knowledge and applied analysis	Secondary Education, Secondary Education Objectives	Lecture, discussion and dialogue	Direct questions
Second	2	Theoretical knowledge and applied analysis	Types of secondary education schools, experiences of some countries in the world in secondary education	Lecture, discussion and dialogue	
Third	2	Theoretical knowledge and applied	Management, Concept of Management, Schools of Management	Lecture, discussion and	



		analysis		dialogue	
Fourth	2	Theoretical knowledge and applied analysis	The concept of educational administration, centralization and decentralization in educational administration	Lecture, discussion and dialogue	
Fifth	2	Theoretical knowledge and applied analysis	Factors affecting educational administration in terms of centralization and decentralization, the concept of educational administration, and the fields of educational administration.	Lecture, discussion and dialogue	
GRADE 6	2	Theoretical knowledge and applied analysis	The concept of school administration, the importance of school administration, and the objectives of school administration.	Lecture, discussion and dialogue	
Seventh	2	Theoretical knowledge and applied analysis	Components of school administration, elements of school administration, factors for the success of school planning.	Lecture, discussion and dialogue	
Eighth	2	Theoretical knowledge and applied analysis	Organization, the most important principles of good organization, guidance, follow-up and evaluation, the basic conditions	Lecture, discussion and dialogue	



			for good follow-up, areas of evaluation		
Ninth	2	Theoretical knowledge and applied analysis	Qualities of successful school management, school management patterns,	Lecture, discussion and dialogue	
Tenth	2	Theoretical knowledge and applied analysis	The chaotic style, the moderates of the style, the difference between the three school styles, and the characteristics of the school administration.	Lecture, discussion and dialogue	Direct questions
Eleventh	2	Theoretical knowledge and applied analysis	The skills of the school principal, the ethical rules of the school administration profession, the tasks (duties) of the school principal. the school principal's administrative duties,	Lecture, discussion and dialogue	
Twelfth	2	Theoretical knowledge and applied analysis	Leadership and its importance in management, administrative leadership, the difference between management and leadership.	Lecture, discussion and dialogue	
Thirteenth	2	Theoretical knowledge and applied analysis	The importance of administrative leadership, sources of leadership power and influence, skills and methods of selecting	Lecture, discussion and dialogue	



			administrative leadership.		
Fourteenth	2	Theoretical knowledge and applied analysis	Chapter Three: Educational Supervision, The Importance of Educational Supervision	Lecture, discussion and dialogue	
Fifteenth	2	Theoretical knowledge and applied analysis	The development of the concept of educational supervision, criticisms of the inspection process,	Lecture, discussion and dialogue	Direct questions
Week 16	2	Theoretical knowledge and applied analysis	Features of educational supervision, methods of educational supervision, classroom visitation procedures.	Lecture, discussion and dialogue	
Week 17	2	Theoretical knowledge and applied analysis	Supervisory deliberations, mutual visits between teachers, educational operator, supervisory bulletins,	Lecture, discussion and dialogue	
Week 18	2	Theoretical knowledge and applied analysis	Micro-education, foundations of educational supervision, types of educational supervision	Lecture, discussion and dialogue	
Week 19	2	Theoretical knowledge and applied analysis	Corrective Supervision, Democratic Supervision, Advantages of Educational Supervision, Educational Supervision Functions		
Week 20	2	Theoretical	Specifications for the selection of the supervisor,		



		knowledge and applied analysis	conditions for the selection of educational supervision jobs		
Week 21	2	Theoretical knowledge and applied analysis	Chapter Four: Total Quality	Lecture, discussion and dialogue	
Week 22	2	Theoretical knowledge and applied analysis	Total Quality Objectives, Total Quality Leadership	Lecture, discussion and dialogue	Collaborative Examination in Groups
Week 23	2	Theoretical knowledge and applied analysis	Elements of the success of the application of total quality in the school, total quality standards.	Discussion and Dialogue	
Week 24	2	Theoretical knowledge and applied analysis	The role of educational supervision in achieving quality	Discussion and Dialogue	
Week 25	2	Theoretical knowledge and applied analysis	Obstacles to the application of total quality management.	Discussion and Dialogue	
Week 26	2	Theoretical knowledge and applied analysis	Chapter Three: Educational Supervision, The Importance of Educational Supervision	Discussion and Dialogue	
Week 27	2	Theoretical knowledge	The development of the concept of educational supervision, criticisms of the	Discussion and	Daily Exam



		and applied analysis	inspection process,	Dialogue	
Week 28	2	Theoretical knowledge and applied analysis		Discussion and Dialogue	
Week 29	2	Theoretical knowledge and applied analysis		Discussion and Dialogue	
Week 30	2	Theoretical knowledge and applied analysis			Monthly Exam

1. Course Evaluation

1. Written and oral tests and homework (15) marks
2. Giving (25) marks for semi-annual examinations.
3. (60) marks for the final exams.

2. Learning and Teaching Resources

Required textbooks (methodology if any)

Textbook of Secondary Education, Administration and Supervision

Key References (Sources)

Recommended supporting books and references (scientific journals, reports ...)



Electronic references, websites	
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Course Description Form

1.Course Name

Groups Algebra

2.Code/No.

HAEPSMA25F201

3.Term / Year

2024 - 2025

4.Date of preparation of this description

20/9/2024

5.Available Attendance Forms

In person and Online

6.Number of study hours (total)/number of units (total)

Number of Hours 90/Number of Units 5

7.Name of course administrator (if more than one name is mentioned):

Name: Lect.Hadil Hazim

Email:hadeelsami@uohamdaniya.edu.iq

8.Course Objectives

Course objectives

- Understand the structure of the algebraic group during the study of binary processes and associated laws.
- Gain analytical skills to understand the characteristics of groups and classify their types (e.g. commutative groups, finite groups, etc.).
- Employing basic concepts in solving mathematical problems



9. Teaching and Learning Strategies

Strategy

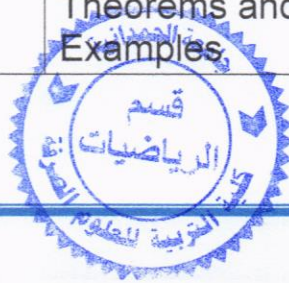
Lecture, discussion, dialogue and applied analysis.

10. Course Structure

Week	Hours	Intended Learning Outcomes	Unit or subject name	Learning Method	Method of Evaluation
First	3	Binary operations	Definitions and Examples	Lecture, discussion and dialogue	Direct questions
Second	3	Semi group, monoid	Definitions and Examples	Lecture, discussion and dialogue	Direct questions, daily+ weekly exam
Third	3	Group	Definitions and Examples	Lecture, discussion and dialogue	Daily + Weekly Exam
Fourth	3	Examples of groups	Miscellaneous Examples	Lecture, discussion and dialogue	Daily + Weekly Exam
Fifth	3	Theorems about the groups	Group Theorems	Lecture, discussion and dialogue	Daily + Weekly Exam
GRADE 6	3	Problem	Resolve Exercises	Lecture, discussion and dialogue	Daily + Weekly Exam
Seventh	3	Symmetric groups	Definitions and theorems	Lecture, discussion and dialogue	Daily + Weekly Exam
Eighth	3	Examples of symmetric group	Examples	Lecture, discussion and	Daily + Weekly Exam



				dialogue	
Ninth	3	Special cases of groups	Examples and theorems	Lecture, discussion and dialogue	Daily + Weekly Exam
Tenth	3	Problem	Resolve Exercises		Daily + Weekly Exam
Eleventh	3	Theorems of integers modulo n	Definitions and theorems	Lecture, discussion and dialogue	Daily + Weekly Exam
Twelfth	3	Examples of integers group modulo n	Examples	Lecture, discussion and dialogue	Daily + Weekly Exam
Thirteenth	3	Subgroups	Definitions and Examples	Lecture, discussion and dialogue	Daily + Weekly Exam
Fourteenth	3	Theorems about subgroups	Theorems and Examples	Lecture, discussion and dialogue	Daily + Weekly Exam
Fifteenth	3	Problems of a subgroup	Questions and theorems	Lecture, discussion and dialogue	Daily + Weekly Exam
Week 16	3	Cyclic group	Definitions and theorems	Lecture, discussion and dialogue	Daily + Weekly Exam
Week 17	3	Examples of a Cyclic group	Examples	Lecture, discussion and dialogue	Daily + Weekly Exam
Week 18	3	The Cosets	Definitions and Examples	Lecture, discussion and dialogue	Daily + Weekly Exam
Week 19	3	Relations between the	Theorems and Examples	Lecture, discussion	Daily + Weekly Exam



		subgroups and the cosets		and dialogue	
Week 20	3	Normal subgroups	Theorems and Examples	Lecture, discussion and dialogue	Daily + Weekly Exam
Week 21	3	Quotient group	Theorems and Examples	Lecture, discussion and dialogue	Daily + Weekly Exam
Week 22	3	Problem	Resolve Exercises	Lecture, discussion and dialogue	Daily + Weekly Exam
Week 23	3	Order of a group and subgroup	Definitions and Examples	Discussion and Dialogue	Daily + Weekly Exam
Week 24	3	Lagrange theorem	Theorems and Examples	Discussion and Dialogue	Daily + Weekly Exam
Week 25	3	Definition of Homomorphisms and Examples	Definitions and Examples	Discussion and Dialogue	Daily + Weekly Exam
Week 26	3	Theorems about Homomorphisms	Theorems and Examples	Discussion and Dialogue	Daily + Weekly Exam
Week 27	3	Isomorphism	Definitions and Examples	Discussion and Dialogue	Daily + Weekly Exam
Week 28	3	Theorems about Homomorphisms and Isomorphism	Theorems and Examples	Discussion and Dialogue	Daily + Weekly Exam
Week 29	3	The Fundamental Theorems of a Ring Homomorphism	Theorems and Examples	Discussion and Dialogue	Daily + Weekly Exam
Week 30	3	Problem	Exercises	Discussion and Dialogue	Daily + Weekly Exam

11.Course Evaluation



Distribution of the score of 100 according to the tasks assigned to the student such as daily preparation, daily, oral, monthly and written examinations and reports ...etc.

1. Learning and Teaching Resources	
Required textbooks (methodology if any)	Abstract Algebra, David M. Burton, 1988, Wm. C. Brown Publishers
Key References (Sources)	Abstract Algebra, David M. Burton, 1988, Wm. C. Brown Publishers
Recommended supporting books and references (scientific journals, reports ...)	Group theory, R-Kumar, U.B. Jawahar Nagar, Delhi, 2006. Group Theory, J. S. Milne, 2010
Electronic references, websites	



Cours Description Form

1. Course Name

Ordinary Differential Equations

2. Code/No.

HAEPSMA25F202

3. Semester/year

2025-2024

4. date of preparation Date

1/05/2025

5. Available Attendance Forms

In person Learning

6. Number of Credit Hours (total) / Number of Units (total)

120 (hours) / 6 units

7. Course administrator's name (mention all, if more than one name)

Name: Lect. Raed Sabeeh Karyakos

Email: raedsabeeh@uohamdaniya.edu.iq

8. Cours objectives

Course objectives

The course aims to enable the student to identify the types of ordinary differential equations and how to choose the appropriate method to solve them.

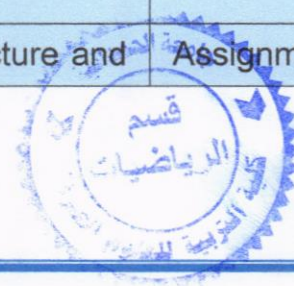


9.Teaching and learning strategies	
Strategy	1.Lecture, discussion, dialogue, and daily assignments . 2.Daily surprise tests and ongoing weekly quizzes 3.Classroom exercises and activities . 4.Guiding students to resources containing examples and exercises for their benefit.

10 . Course Structure					
week	Hours	Required learning outcomes	Unit or subject name	Learning method	Evaluation Method
1	4	Theoretical Knowledge and applied Analysis	Differential equation and Ordinary Differential equation	Lecture and Discussion	Assignments and daily exams
2	4	Theoretical Knowledge and applied Analysis	partial Differential equation and order of Differential equations	Lecture and Discussion	Assignments and daily exams



3	4	Theoretical Knowledge and applied Analysis	Degree of Differential equations , Linear and Non linear Differential equation and Homogenous Differential equations	Lecture and Discussion	Assignments and daily exams
4	4	Theoretical Knowledge and applied Analysis	Intial Value Problems Boundary Value Problems System of Differential equations	Lecture and Discussion	Assignments and daily exams
5	4	Theoretical Knowledge and applied Analysis	General Solution, Particular solution and singular solution	Lecture and Discussion	Assignments and daily exams
6	4	Theoretical Knowledge and applied Analysis	Composition the differential equation from the General solution,	Lecture and Discussion	Assignments and daily exams
7	4	Theoretical	Separable	Lecture and	Assignments



		Knowledge and applied Analysis	equation, Homogenous equation	Discussion	and daily exams
8	4	Theoretical Knowledge and applied Analysis	Exams		
9	4	Theoretical Knowledge and applied Analysis	Existence and uniqueness of the solution	Lecture and Discussion	Assignments and daily exams
10	4	Theoretical Knowledge and applied Analysis	Exact Differential equation	Lecture and Discussion	Assignments and daily exams
11	4	Theoretical Knowledge and applied Analysis	Bernoulli's equations	Lecture and Discussion	Assignments and daily exams
12	4	Theoretical Knowledge and applied Analysis	Equation that is solved using asuitable substitution	Lecture and Discussion	Assignments and daily exams
13	4	Calculation and classifying Extreme values	Growth and Decay of population	Lecture and Discussion	Assignments and daily exams
14	4	Theoretical Knowledge	Cooling problem	Lecture and	Assignments



		and applied Analysis		Discussion	and daily exams
15	4	Theoretical Knowledge and applied Analysis	Exam		
16	4	Theoretical Knowledge and applied Analysis	Linear differential equations of order n (Def and theorem)	Lecture and Discussion	Assignments and daily exams
17	4	Theoretical knowledge and applied analysis	The wronskian determinant	Lecture and Discussion	Assignments and daily exams
18	4	Theoretical Knowledge and applied Analysis	Differential operator	Lecture and Discussion	Assignments and daily exams
19	4	Theoretical Knowledge and applied Analysis	Solution of the linear differential equation of the high order	Lecture and Discussion	Assignments and daily exams
20	4	Theoretical Knowledge and applied Analysis	Solution of the Homogenous differential equation of the high order	Lecture and Discussion	Assignments and exams
21	4	Theoretical Knowledge and applied	Monthly Exam		



		Analysis			
22	4	Theoretical Knowledge and applied Analysis	Laplace Transform	Lecture and Discussion	Assignments and daily exams
23	4	Theoretical Knowledge and applied Analysis	Laplace Transform	Lecture and Discussion	Assignments and daily exams
24	4	Theoretical Knowledge and applied Analysis	Laplace Transform	Lecture and Discussion	Assignments and daily exams
25	4	Theoretical Knowledge and applied Analysis	Laplace Transform	Lecture and Discussion	Assignments and daily exams
26	4	Theoretical Knowledge and applied Analysis	Solving Exercises	Lecture and Discussion	Assignments and daily exams
27	4	Theoretical Knowledge and applied Analysis	Solving Exercises	Lecture and Discussion	Assignments and daily exams
28	4	Theoretical Knowledge and applied Analysis	Power series solution of the linear differential equation	Lecture and Discussion	Assignments and daily exams



29	4	Theoretical Knowledge and applied Analysis	Power series solution of the linear differential equation	Lecture and Discussion	Assignments and daily exams
30	4	Theoretical Knowledge and applied Analysis	Solving Exercises	Lecture and Discussion	Assignments and daily exams

11. Course Evaluation

Monthly Quizzes :15 marks

Midterm Exam :25 marks

Final Exam: 60 marks

12. Learning and Teaching Resources

Required textbooks (if any)

Main References



1.Differential Equations and Their Applications Assistant Professor Marouf Mohammed Hadid and Assistant Professor Rashid Abdul Razzaq
2.Methods for Solving Differential Equations
Professor Khaled Ahmed Al-Samarrai and Assistant Professor Yahya Abdul Saeed

Supporting Books and References Recommended (Scientific Journals , Reports,....)

The most important books and resources on partial differential equations available in the Central

	Library
Electronic Refernces,Internet Sites	-Reliable websites - Virtual library



Course Description Form

1. Course Name	
Research Methodology	
2.Code/No.	
3.Term / Year	
Academic year 2024-2025	
4.Date of preparation of this description	
5/5/2024	
5.Available Attendance Forms	
In person Learning	
6.Number of study hours (total)/number of units (total)	
60/4	
7.Name of course administrator (if more than one name is mentioned)	
Name: Asst.Lect.. Duha Amer Jalil Email: dhuha.am93@uohamdaniya.edu.iq	
8.Course Objectives	
Course objectives	The scientific research curriculum provides skills and methods that help students to research and discover the necessary concepts. They can also learn how to develop clear and correct hypotheses, develop appropriate research plans, collect data correctly, analyze data appropriately, and formulate results and conclusions in a logical and convincing manner. He also taught them how to write research reports and



scientific papers in a way that meets the standards of scientific publishing.

9. Teaching and Learning Strategies

Strategy

1. Lecture, discussion, dialogue and daily duties
2. Using discussions and dialogues to motivate students to think critically and exchange ideas and opinions on research topics.
3. Encourage students to give presentations about their scientific research projects to enhance presentation and communication skills.
4. Placing students in situations that need research solutions to develop their problem-solving and decision-making skills.
5. Provide individual feedback to students and guide them in developing their research and methodological skills.
6. Using continuous assessment tools to assess students' progress and identify their strengths and weaknesses in learning the scientific research approach.

10 . Course Structure

Week	Hours	Intended Learning Outcomes	Unit or subject name	Learning Method	Method of Evaluation
First	2	Acquiring scientific research skills, the ability to apply the concepts	Science and Scientific Research	Lecture, discussion and dialogue	Direct Questions Duty



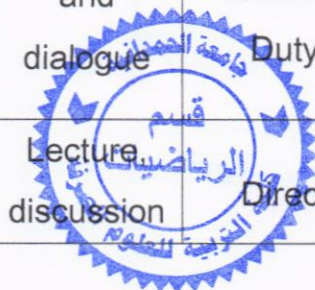
		of science			
Second	2	Acquiring scientific research skills, the ability to apply the concepts of science	Science and Scientific Research	Lecture, discussion and dialogue	Direct questions + daily exam
Third	2	Acquiring scientific research skills, the ability to apply the concepts of science	Science and Scientific Research	Lecture, discussion and dialogue	Direct questions + daily exam
Fourth	2	How to prepare a plan for scientific research and what constitutes scientific research and how to establish the structure of scientific research and	Methodology for preparing the scientific research plan	Lecture, discussion and dialogue	Direct questions + daily exam



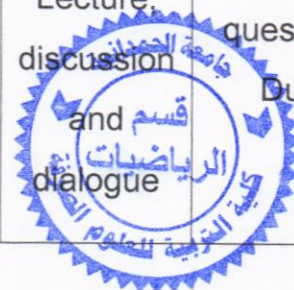
		write a draft for research			
Fifth	2	How to prepare a plan for scientific research and what constitutes scientific research and how to establish the structure of scientific research and write a draft for research	Methodology for preparing the scientific research plan	Lecture, discussion and dialogue	Direct questions + daily exam
GRADE 6	2	How to prepare a plan for scientific research and what constitutes scientific research and how to establish the	Methodology for preparing the scientific research plan	Lecture, discussion and dialogue	Direct questions + daily exam



		structure of scientific research and write a draft for research			
Seventh	2	Ability to understand the stages of writing a research report	How to write a scientific research report	Lecture, discussion and dialogue	Duty
Eighth	2	Monthly Exam			
Ninth	2	Analyze data using appropriate statistical methods	Statistical Method in Scientific Research	Lecture, discussion and dialogue	Direct Questions Duty
Tenth	2	Analyze data using appropriate statistical methods	Statistical Method in Scientific Research	Lecture, discussion and dialogue	Direct Questions Duty
Eleventh	2	Analyze data using appropriate statistical methods	Statistical Method in Scientific Research	Lecture, discussion and dialogue	Direct Questions Duty
Twelfth	2	The ability to identify the	Samples in Scientific	Lecture, discussion	Direct



		types of samples used in the research	Research	and dialogue	Questions Duty
Thirteenth	2	The ability to identify the types of samples used in the research	Samples in Scientific Research	Lecture, discussion and dialogue	Direct questions
Fourteenth	2	The ability to identify the types of samples used in the research	Samples in Scientific Research	Lecture, discussion and dialogue	Direct questions Duty
Fifteenth	2	Monthly Exam			
Sixteenth	2	Ability to use research tools in the library and on the Internet	The electronic library and the Internet and their role in serving scientific research	Lecture, discussion and dialogue	Direct Questions Assignment
Seventeenth	2	Ability to use research tools in the library and on the Internet	The electronic library and the Internet and their role in serving	Lecture, discussion and dialogue	Direct questions Duty



			scientific research		
Eighteenth	2	Understand iterative distributions and how to use them to represent statistical data	Frequency distributions and data presentation methods	Lecture, discussion and dialogue	Direct questions Duty
XIX	2	Understand iterative distributions and how to use them to represent statistical data	Frequency distributions and data presentation methods	Lecture, discussion and dialogue	Direct questions
Twentieth	2	Ability to use metrics in analyzing data and drawing conclusions	Measures of central tendency	Lecture, discussion and dialogue	Direct questions
Twenty-first	2	Ability to use metrics in analyzing data and drawing conclusions	Measures of central tendency	Lecture, discussion and dialogue	Direct questions
Twenty-second	2	Ability to use metrics in analyzing data and drawing conclusions	Measures of central tendency	Lecture, discussion and dialogue	Direct questions



Twenty-third	2	Ability to use metrics in analyzing data and drawing conclusions	Measures of central tendency	Lecture, discussion and dialogue	Direct Questions Assignment
24th	2	Ability to understand the concept of scatterability scales, standard deviation ,variance	Scatterometers	Lecture, discussion and dialogue	Direct questions
25 th	2	Ability to understand the concept of scatterability scales, standard deviation ,variance,.....	Scatterometers	Lecture, discussion and dialogue	Direct questions Duty
Twenty-sixth	2	Ability to understand the concept of scatterability scales, standard deviation ,variance,.....	Scatterometers	Lecture, discussion and dialogue	Direct questions



Twenty-seventh	2	Monthly Exam			
Twenty-eighth	2	Understand the concept of correlation and simple linear regression and the difference between them	Correlation coefficient and regression model	Discussion and Dialogue	Duty
Twenty-ninth	2	Understand the concept of correlation and simple linear regression and the difference between them	Correlation coefficient and regression model	Discussion and Dialogue	Direct questions
Thirty	2	Monthly Exam			

1. Course Evaluation

1. Written and oral tests.
2. Giving grades to students by solving homework and preparing reports on a specific topic.

2. Learning and Teaching Resources



Required textbooks (methodology if any)	
Key References (Sources)	
Recommended supporting books and references (scientific journals, reports ...)	Musab Hashem Ahmed Al-Faki "How to Write a Scientific Research Rules and Foundations" Arab Democratic Center for Strategic, Political and Economic Studies Germany /Berlin. 2023
Electronic references, websites	



Course Description Form

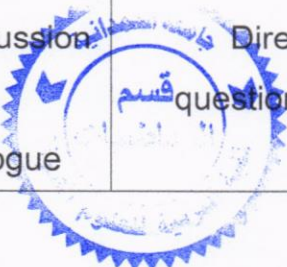
1. Course Name	
Geometrical Systems and Axioms	
2.Code/No.	
HAEPSMA25F203	
3.Term / Year	
2024- 2025	
4.Date of preparation of this description	
1/10/2024	
5.Available Attendance Forms	
In person	
6.Number of study hours (total)/number of units (total)	
120/6	
7.Name of course administrator (if more than one name is mentioned)	
Name: Lect.ILham Matta Yacoob ilhammatta@uohamdaniya.edu.iq Email:	
1. Course Objectives	
Course objectives	- Explain the basics of engineering, engineering systems and axioms - Enabling him to prove the theorems logically and properly, starting with the data that is required to be proven, drawing and then proof - Demonstrates direct and indirect methods of proof
2. Teaching and Learning Strategies	



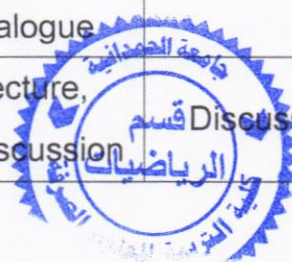
Strategy	1. Discussion. 2. Classroom activities 3. Continuous Quarterly, Daily and Weekly Tests
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10. Course Structure

Week	Hours	Intended Learning Outcomes	Unit or subject name	Learning Method	Method of Evaluation
First	4	Knowledge	Chapter One The Intuitive System	Lecture, discussion and dialogue	Direct questions
Second	4	Knowledge	Specific Engineering (Yonk System and Fano System)	Lecture, discussion and dialogue	Weekly Exam
Third	4	Knowledge	Chapter Two Properties of the Intuitive System	Lecture, discussion and dialogue	Annie Exam
Fourth	4	Knowledge	Examples	Lecture, discussion and dialogue	Assignments
Fifth	4	Knowledge	Chapter Three Euclidean Engineering	Lecture, discussion and dialogue	Direct questions



GRADE 6	4	Knowledge	Chapter Four Foundations of Engineering Halpert System	Lecture, discussion and dialogue	Discussion
Seventh	4	Knowledge	Fragmentation – pieces – Bach axiom	Lecture, discussion and dialogue	Weekly Exam
Eighth	4	Knowledge	Convex Sets	Lecture, discussion and dialogue	General questions and discussion
Ninth	4	Knowledge	Chapter Five Matching and Comparison	Lecture, discussion and dialogue	Assignments
Tenth	4	Knowledge	Chapter Six Primary Engineering		Annie Exam
Eleventh	4	Knowledge	External Angle Theorem	Lecture, discussion and dialogue	Discussion
Twelfth	4	Knowledge	Chapter Seven Measurement	Lecture, discussion and dialogue	Discussion
Thirteenth	4	Knowledge	Chapter 8 Euclid's Fifth	Lecture, discussion	Discussion



			Axiom	and dialogue	
Fourteenth	4	Knowledge	Attempts to Prove the Fifth Axiom of Euclid with Criticism	Lecture, discussion and dialogue	Discussion
Fifteenth	4	Knowledge	Chapter Nine Non-Euclidean Geometry	Lecture, discussion and dialogue	General Questions
Week 16	4	Knowledge	Aligned Triangle	Lecture, discussion and dialogue	Discussion
Week 17	4	Knowledge	Consistency of the abnormal	Lecture, discussion and dialogue	Assignments
Week 18	4	Knowledge	Chapter Ten Civil Engineering	Lecture, discussion and dialogue	Discussion
Week 19	4	Knowledge	Table of comparison between Euclidean and non-Euclidean geometry	Lecture, discussion and dialogue	Discussion
Week 20	4	Knowledge	Chapter Eleven	Lecture,	Discussion



			Structural Projective Engineering	discussion and dialogue	
Week 21	4	Knowledge	Principle of Dualism	Lecture, discussion and dialogue	Annie Exam
Week 22	4	Knowledge	Chapter Twelve Analytical Projective Level	Lecture, discussion and dialogue	Discussion
Week 23	4	Knowledge	Analytical model	Discussion and Dialogue	Weekly Exam
Week 24	4	Knowledge	Chapter Thirteen Conversion Engineering	Discussion and Dialogue	Discussion
Week 25	4	Knowledge	Conversion	Discussion and Dialogue	Discussion
Week 26	4	Knowledge	Projective geometry	Discussion and Dialogue	General Questions
Week 27	4	Knowledge	Subgroups	Discussion and Dialogue	Assignments
Week 28	4	Knowledge	Analytical Corresponding	Discussion and	Weekly Exam



			Level	Dialogue	
Week 29	4	Knowledge	Euclidean level	Discussion and Dialogue	Discussion
Week 30	4	Knowledge	Partial geometry	Discussion and Dialogue	Assignments

1. Course Evaluation

15 marks for daily exams, attendance and participation – 25 marks for mid-year exams – 60 marks for final exams

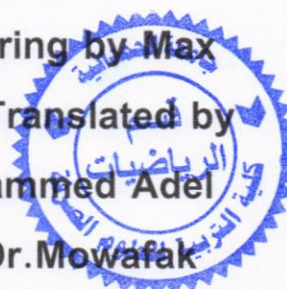
2. Learning and Teaching Resources

Required textbooks (methodology if any)

Basic Concepts in Engineering / Written by Prof. Amal Shihab Al-Mukhtar – Second Edition 2012

Key References (Sources)

Intuitions and Engineering Systems by Abdul Wahab Ahmed Al-Sarraj, Salah Al-Din University, Iraq
Conversion Engineering and Damaged Engineering by Max Geiger Translated by Dr. Mohammed Adel Sudan Dr. Mowafak



	Daboul Dr.Mohammed Saeed Al-Barni
Recommended supporting books and references (scientific journals, reports ...)	Intuitions and Engineering Systems by Abdul Wahab Ahmed Al-Sarraj, Salah Al-Din University, Iraq
Electronic references, websites	www.freecience.info.math



Course Description Form

1. Course Name:	
Crimes of the baath regim in Iraq	
2.Code/No.	
HAEPSMA25F209	
3.Term/ Year:	
2024- 2025	
4.Date of preparation of this description:	
9/4/2025	
5.Available Attendance Forms:	
In person Learning	
6.Number of study hours (total)/number of units (total)	
30 hours/1 unit	
7.Name of course administrator (if more than one name is mentioned)	
Name:Asst.Lect. Ahmed Ismail Jumaa Email: ahmedalrwas@uohamdaniya.edu.iq	
8.Course Objectives	
Course objectives	- The skill objectives of the course of crimes of the Baath regime in Iraq in the second phase may include: Analysis Skill: - Analysis of important facts in Iraq's political history. - The ability of students to understand the differences between the dictatorship and the democratic system. Reading Skill: Understanding the legal texts on human rights in countries governed by a dictatorial regime.



9. Teaching and Learning Strategies

Strategy	1. Understanding the nature of the ruling regime during the period of Baath Party rule in Iraq. 2. Introducing students to the gravity of Baath Party crimes in Iraq. 3. Developing students' information about the darkest period in the history of contemporary Iraq.
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10. Course Structure

Week	Hours	Intended Learning Outcomes	Unit or subject name	Learning Method	Method of Evaluation
WEEK	Hours	Intended Learning Outcomes	Module Name/ or Topic	Teaching Method	Method of Evaluation
First	1	Theoretical knowledge	The concept of crimes and their sections , and the definition of crime in language and terminology	Lecture, discussion and dialogue	Direct questions
Second	1	Theoretical knowledge	Sections of crimes and crimes of the	Lecture, discussion and dialogue	Direct questions



			Baath regime in accordance with the documentation of the Iraqi Supreme Criminal Court Law in 2005		
Third	1	Theoretical knowledge	Types of international crimes	Lecture, discussion and dialogue	Direct questions
Fourth	1	Theoretical knowledge	Decisions issued by the Supreme Criminal Court, and the most prominent cases considered by the court : the crime of the Dujail massacre and the crime of bombing Halabja	Lecture, discussion and dialogue	Direct questions
Fifth	1	Theoretical knowledge	The crime of Anfal operations and the crime of	Lecture, discussion and dialogue	Direct questions



			executing a number of Iraqi traders		
GRADE 6	1	Theoretical knowledge	The crime of suppressing the popular uprising, the crime of the events of Friday prayers, the liquidation of religious and secular parties, and the crime of displacing the Filipino Kurds	Lecture, discussion and dialogue	Direct questions
Seventh	1	Exam			
Eighth	1	Theoretical knowledge	Psychological crimes and their mechanisms	Lecture, discussion and dialogue	Direct questions
Ninth	1	Theoretical knowledge	Effects of Psychological Crimes	Lecture, discussion and dialogue	Direct questions
Tenth	1	Theoretical knowledge	Social Crimes and	Lecture, discussion	Direct questions



			Militarization of Society	and dialogue	
Eleventh	1	Theoretical knowledge	The position of the Baathist regime on religion	Lecture, discussion and dialogue	Direct questions
Twelfth	1	Theoretical knowledge	Continuing to talk about the position of the Baathist regime on religion and the results of the popular uprising	Lecture, discussion and dialogue	Direct questions
Thirteenth	1	Theoretical knowledge	Violations of Iraqi laws and forms of human rights violations and crimes of authority	Lecture, discussion and dialogue	Direct questions
Fourteenth	1	Theoretical knowledge	A review of some of the crimes of the Baath Party against the Iraqi people and talk about	Lecture, discussion and dialogue	Direct questions



			some of the decisions of the political and military violations of the Baath regime		
Fifteenth	1	Exam			
Week 16	1	Theoretical knowledge	Prisons and Detention Places for the Ba 'ath Regime	Lecture, discussion and dialogue	Direct questions
Week 17	1	Theoretical knowledge	Environmental Crimes of the Baath Regime in Iraq : War and Radioactive Contamination	Lecture, discussion and dialogue	Direct questions
Week 18	1	Theoretical knowledge	The use of internationally prohibited weapons such as chemical weapons and their effects in some areas	Lecture, discussion and dialogue	Direct questions
Week 19	1	Theoretical knowledge	Contamination by radioactive	Lecture, discussion	Direct questions



			materials	and dialogue	
Week 20	1	Theoretical knowledge	Destruction of cities and villages (scorched earth policy)	Lecture, discussion and dialogue	Direct questions
Week 21	1	Theoretical knowledge	Drainage of marshes	Lecture, discussion and dialogue	Direct questions
Week 22	1	Theoretical knowledge	Dredging of palm groves, trees and crops	Lecture, discussion and dialogue	Direct questions
Week 23	1	Exam			
Week 24	1	Theoretical knowledge	Genocide cemeteries committed by the Baathist regime in Iraq	Lecture, discussion and dialogue	Direct questions
Week 25	1	Theoretical knowledge	Events from 1979–2003 and their relationship to mass graves	Lecture, discussion and dialogue	Direct questions
Week 26	1	Theoretical knowledge	Temporal classification of mass grave crimes in Iraq for the period	Lecture, discussion and dialogue	Direct questions



			1963–2003		
Week 27	1	Theoretical knowledge	Genocide cemeteries related to the Iran–Iraq war	Lecture, discussion and dialogue	Direct questions
Week 28	1	Theoretical knowledge	Kurdish Genocide Cemeteries and Genocide Cemeteries of the Victims of the Anfal Massacre	Discussion and Dialogue	Direct questions
Week 29	1	Theoretical knowledge	Genocide cemeteries of victims of the 1991 popular uprising	Discussion and Dialogue	Direct questions
Week 30	1	Exam			

11.Course Evaluation

Distribution of (15) marks for daily preparation and daily and monthly examinations, (25)marks for semi–annual examinations and (60) marks for final examinations.

12.Learning and Teaching Resources

Required textbooks (methodology if any)	Ministerial Curriculum "Crimes of the Baath Regime in Iraq"
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Key References (Sources)	The coup d'état of July 17, 1968–2003 , the suspicious beginning and the tragic end of Saifeddine Aldouri. The Knowledge Foundation for the Study of the Crimes of the Baath Party in Iraq by Qais Nasser and Abdulhadi Ma 'touq al-Hatim.
Prevailing recommended books and references (scientific journals, reports)	Following up on electronic and Internet references that include discreet scientific websites and library sites in some international universities
E-References, Websites	Website of the Higher National Authority for Accountability and Justice



Course Description Form

1. Course Name:	
Developmental Psychology	
2.Code/No.	
HAEPSMA25F207	
1. Term/ Year:	
2024 – 2025	
2. Date of preparation of this description:	
10/4/2019	
3. Available Attendance Forms:	
F2F	
4. Number of study hours (total)/number of units (total)	
60 hours/ 4 units	
5. Name of course administrator (if more than one name is mentioned)	
Name: Asst.Lect.Silvana Faris Khader Email: selvanafaris@uohamdaniya.edu.iq	
6. Course Objectives	
Course objectives	- With the concept of developmental psychology and general concepts and principles - the definition of developmental psychology -development for the growth of maturity - General principles of development –factors influencing development and genetic factors Chromosomes –What is transmitted by heredity
7. Teaching and Learning Strategies	
Strategy	/ and educational applications. Lecture Discussion



	- Exploratory self-learning - Extra-curricular duties and activities -Enabling the student to obtain knowledge and understanding of developmental psychology.
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10. Course Structure

Week	Hours	Required Learning outcomes	Unit or subject name	Learning Method	Method of Evaluation
First	2	Theoretical knowledge and practical educational application	General Concepts and Principles - Definition of Developmental Psychology - Evolution for System Growth	Lecture and Discussion	Direct question feedback
Second	2	Theoretical knowledge and practical educational application	General Principles of Growth -Factors Affecting Growth	Lecture , Discussion	Direct question feedback
Third	2	Theoretical knowledge and practical educational application	Chromosomal genetic factors - what is transmitted by heredity	Lecture and Discussion , Brainstorming Techniques	Direct question feedback
Fourth	2	Theoretical knowledge and practical educational application	Biological Factors -Glandular System - Nervous System	Lecture and Discussion	Direct question feedback
Fifth	2	Theoretical knowledge and practical educational application	Maturity- environmental factors- intrauterine environment	Lecture, Discussion and Brainstorming Techniques	Direct question feedback
GRADE 6	2	Theoretical knowledge and practical educational application	Family environment - school environment -	Lecture and discussion ,methods of scientific skepticism	Direct question feedback



			social environment - natural environment		
Seven th	2	Theoretical knowledge and practical educational application	Research Methods in Developmental Psychology	Lecture, Discussion and Brainstorming Techniques	Direct question feedback
Eighth	2	Theoretical knowledge and practical educational application	The aim of the study of children - normal studies - children's biography History of the case of normal observation	Lecture, Discussion and Brainstorming Techniques	Direct question feedback
Ninth	2	Theoretical knowledge and practical educational application	Clinical studies - Therapeutic method - Corresponding non- experimental research methods Longitudinal method Cross- sectional studies Pilot study methods	Lecture and Discussion Brainstorming Techniques	Direct question feedback
Tenth	2	Theoretical knowledge and practical educational application	Growth Theories (Psychoanalysis, P iaget, Arkson)	Discussion Sessions	Extra-curricular activities
Eleven th	2	Theoretical knowledge and practical educational application	Embryonic stages, stages affecting development, heredity Environ mental factors affecting the normal development of	Lecture, discussion and dialogue	Direct question feedback



			the embryo		
Twelfth	2	Theoretical knowledge and practical educational application	Psychological factors, genetic factors	Lecture and Discussion Brainstorming Techniques	Direct question feedback
Thirteenth	2	Theoretical knowledge and practical educational application	The stage of birth, growth and motor development in the child	Lecture and Discussion Collaborative Learning	Direct question feedback
Fourteenth	2	Theoretical knowledge and practical educational application	Manifestations of mental development, nursing care for children of this stage	Lecture and Discussion	Direct question feedback
Fifteenth	2	Theoretical knowledge and practical educational application	Early childhood ,physical and motor development	Lecture and Discussion	Direct question feedback
Week 16	2	Theoretical knowledge and practical educational application	Mental Development Theory of Mind Concept Acquisition, Emotional Development Emotional Characteristics Fear Anxiety Anger Jealousy and Gender	Lecture, discussion and dialogue	Direct question feedback
Week 17	2	Theoretical knowledge and practical educational application	Social and moral development Social characteristics Moral judgment, linguistic development Linguistic characteristics Language	Lecture, discussion and dialogue	Direct question feedback



			development in children		
Week 18	2	Theoretical knowledge and practical educational application	Middle and late childhood, motor development for hand control, cognitive development and retention of weight, size, height, number and area Emotional development	Lecture, discussion and dialogue	Direct question feedback
Week 19	2	Theoretical knowledge and practical educational application	Social development, socialization, institutions, sexual stereotyping, family and social problems of the child, moral development, formation of moral sense, factors affecting it	Lecture, discussion and dialogue	Direct question feedback
Week 20	2	Theoretical knowledge and practical educational application	Teaching (entering school) and adapting to the classroom world	Lecture, discussion and dialogue	Direct question feedback
Week 21	2	Theoretical knowledge and practical educational application	Adolescence, the meaning of adolescence, adolescence and adulthood and factors affecting it, basic trends in the study of adolescence, biological trends,	Methods of Brainstorming , Discussion and Lecture	Direct question feedback



			psychological trends, social trends, growth processes in adolescence, physical development, the impact of physiological variables on the psyche of the adolescent		
Week 22	2	Theoretical knowledge and practical educational application	Cognitive mental development, intelligence development, emergence of abstract thinking, emotional growth, self-concept, shyness, violence, aggression, anxiety, fear	Monthly Exam	Direct question feedback
Week 23	2	Theoretical knowledge and practical educational application	Delinquency Relationship with parents Relationship with comrades Adolescence crisis Adulthood Meaning of adulthood Requirements for advancement in adulthood Psychological conditions of adults according to age and gender	Discussion and Dialogue	Direct question feedback
Week 24	2	Theoretical knowledge and	Learning in adulthood and	Discussion and Dialogue	Direct question feedback



		practical educational application	old age Mentality in men and women Mental characteristics and intelligence in adulthood Emotional manifestations Emotional intelligence Types of intelligence Psychological theories in adulthood Crises and changes		
Week 25	2	Theoretical knowledge and practical educational application	Aging : Ageing in developing countries Changes in the body and psyche Diseases of the nervous system Emotional change Psychological and mental problems Psychological	Discussion and Dialogue	Direct question feedback



			diseases in old age Psychology of death		
Week 26	2	Theoretical knowledge and practical educational application	Mental Cognitive Change Memory Memory Function Factors Affecting Performance Old-age crisis Requirements for advancing in old age	Discussion and Dialogue	Direct question feedback
Week 27	2	Theoretical knowledge and practical educational application	Theories of Aging Biological model Social Model	Discussion and Dialogue	Direct question feedback
Week 28	2	Theoretical knowledge and practical educational application	Psychological Modeling Psychoanalytic Model	Discussion and Dialogue	Direct question feedback
Week 29	2	Theoretical knowledge and practical educational application	Sexual Normalization, Family and Gender Stereotyping	Discussion and Dialogue	Direct question feedback
Week 30	2	Theoretical knowledge and practical educational application	The impact of family relationships is evident in	Discussion and Dialogue	By evaluating a practical session



			adolescent behavior.		
			Other determinants related to the same individual		

1. Course Evaluation

Daily, weekly and monthly exams Daily preparation as well as giving grades to students through the preparation of reports on a specific topic

2. Learning and Teaching Resources

Required textbooks (methodology if any)	–1 Fundamentals of Educational Psychology, Tawq Adass and Abdul Rahma Adass(1983). –2Methods of Learning and Thinking ,Isma Ibrahim Ali, and Wissam Tawfiq Al-Mashhadani(2014)
Key References (Sources)	
Prevailing recommended books and references (scientific journals, reports)	Educational psychology Fadel Erzjawi, Hamed Zahran , Mental Health
E-References, Websites	Psychology Library – Important Books in Psychology and Special Education – Telegram



Course Description Form

1. Course Name

Advanced Calculus

2. Code/No.

HAEPSMA25F200

3. Semester/year

2025-2024

4. date of preparation Date

1/05/2025

5. Available Attendance Forms

In person Learning

6. Number of Credit Hours (total) / Number of Units (total)

150 (hours) / 8 units

7. Course administrator's name (mention all, if more than one name)

Name: Asst.Lect.Zahra Abdul Karim
Asst.Lect.Shahab Ahmed

Email: : zahramath@uohamdaniv.edu.iq

8. Course objectives

Course objectives

- Recognize the concepts and applications of multivariate calculus.
- Learn difficult concepts in analytical geometry, sequences, and series.

9. Teaching and learning strategies

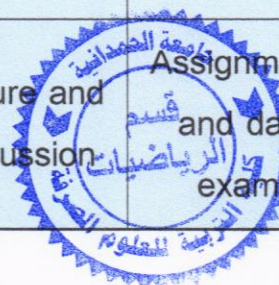
Strategy

Lecture , Discussion , Group Learning



10 . Course Structure

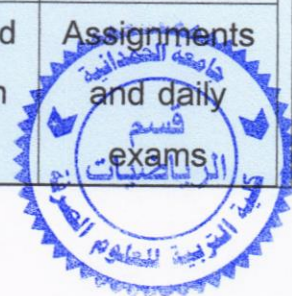
Week	Hours	Required Learning outcomes	Unit or subject name	Learning method	Evaluation Method
1	5	Explain the concept Numerical Sequence and their properties	Numerical Sequences	Lecture and Discussion	Assignments and daily exams
2	5	Apply Convergence Test to Numerical Sequences	Numerical Sequences	Lecture and Discussion	Assignments and daily exams
3	5	Describe the concept of infinite series	infinite series	Lecture and Discussion	Assignments and daily exams
4	5	Perform tests for convergence of numerical series	infinite series	Lecture and Discussion	Assignments and daily exams
5	5	Understand The concept of Power series and apply relevant tests	infinite series	Lecture and Discussion	Assignments and daily exams



6	5	Understanding The concept of Vectors in space	Vector Algebra	Lecture and Discussion	Assignments and daily exams
7	5	Understanding The equation of the line and the plane	Equation of the line and the plan	Lecture and Discussion	Assignments and daily exams
8	5	Understanding The Polar Coordinate system	Polar Coordinates	Lecture and Discussion	Assignments and daily exams
9	5	Draw curves in Polar Coordinates	Polar Coordinates	Lecture and Discussion	Assignments and daily exams
10	5	Calculating arc length and enclosed area	Polar Coordinates	Lecture and Discussion	Assignments and daily exams
11	5	Understanding the concept of Partial and total Derivatives	Advanced Calculus	Lecture and Discussion	Assignments and daily exams
12	5	Understanding types of polar operators	Advanced Calculus	Lecture and Discussion	Assignments and daily exams
13	5	Calculation and classifying Extreme values	Advanced Calculus	Lecture and Discussion	Assignments and daily exams



14	5	Solving optimization problems Lagrange Method	Advanced Calculus	Lecture and Discussion	Assignments and daily exams
15	5	Exam And Solving exercises	Advanced Calculus		
16	5	plotting curves in plan	Advanced Integration	Lecture and Discussion	Assignments and daily exams
17	5	Theoretical knowledge and applied analysis	Advanced Integration	Lecture and Discussion	Assignments and daily exams
18	5	Calculating line integrals	Advanced Integration	Lecture and Discussion	Assignments and daily exams
19	5	Calculating Double integrals	Advanced Integration	Lecture and Discussion	Assignments and daily exams
20	5	Application of line and double integrals	Advanced Integration	Lecture and Discussion	Assignments and exams
21	5	Understanding Creene's Theorem	Advanced Integration	Lecture and Discussion	Assignments and daily exams
22	5	Understanding Creene's Theorem	Analytical Geometry	Lecture and Discussion	Assignments and daily exams



23	5	Plotting Surface in Space	Advanced Integration	Lecture and Discussion	Assignments and daily exams
24	5	Calculating double integrals	Advanced Integration	Lecture and Discussion	Assignments and daily exams
25	5	Calculating triple integrals	Advanced Integration	Lecture and Discussion	Assignments and daily exams
26	5	Calculating surface integrals	Advanced Integration	Lecture and Discussion	Assignments and daily exams
27	5	Understanding applications of triple integrals and surface integrals	Advanced Integration	Lecture and Discussion	Assignments and daily exams
28	5	Understanding Stokes' theorem	Advanced Integration	Lecture and Discussion	Assignments and daily exams
29	5	Understanding Stokes' theorem	Advanced Integration	Lecture and Discussion	Assignments and daily exams
30	5	Exam And Solving exercises	Advanced Integration		



11. Course Evaluation

Monthly Quizzes :15 marks

Midterm Exam :25 marks

Final Exam: 60 marks

12. Learning and Teaching Resources

Required textbooks (if any)

Calculus of Calculus by J.
Purcell (Part Two)

Main References

Calculus, Anton. Bivens. Ian
Davis

Supporting Books and References
Recommended (Scientific Journals ,
Reports,....)

Schaums Outlines

Electronic Refernces,Internet Sites

Websites Related to Calculus and
analytical geometry



Course Description Form

1. Course Name	
Arabic Language	
2.Code/No.	
HAEPSMA25F208	
3.Term / Year	
Academic year 2024-2025	
4.Date of preparation of this description	
1/5/2025	
5.Available Attendance Forms	
In –person education	
6.Number of study hours (total)/number of units (total)	
30	
7.Name of course administrator (if more than one name is mentioned)	
Name: Asst.Lect.Fouad Salem Rasheed Email fouadsalem@uohamdaniya.edu.iq	
8.Course Objectives	
Objectives of the course	Introducing students of the second stage to chapters of grammar, Arabic literature and dictation in addition to a Quranic text. Providing the opportunity to understand the theoretical and applied dimensions of these sections of grammar and some poetic texts. Enabling students to analyze the sentence syntactically,



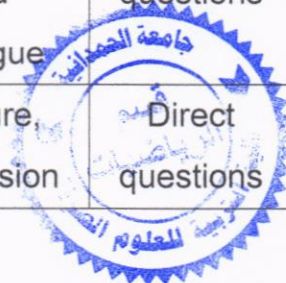
	and to realize the nuances of grammatical and literary structures.
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9. Teaching and Learning Strategies

Strategy	1. Understand the basics of Arabic grammar: Students should understand grammar rules and use them in written and verbal contexts. 2. Developing grammatical and literary expression and analysis skills: Students must be able, in simple and effective ways, to understand the syntactic basis of grammatical sections and the semantic meanings of literary texts. 3. Developing skills for the proper expression of ideas, visions and feelings in the linguistic, rhetorical and literary fields.
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10. Course Structure

Week	Hours	Intended Learning Outcomes	Unit or subject name	Learning Method	Method of Evaluation
First	1	Theoretical knowledge and applied analysis	Thenobody	Lecture, discussion and dialogue	Direct questions
Second	1	Theoretical knowledge and applied analysis	Knowledge (Pronouns)	Lecture, discussion and dialogue	Direct questions
Third	1	Theoretical knowledge and applied analysis	Science	Lecture, discussion and dialogue	Direct questions
Fourth	1	Theoretical knowledge and	Signal Name	Lecture, discussion	Direct questions



		applied analysis		and dialogue	
Fifth	1	Theoretical knowledge and applied analysis	Linked Names	Lecture, discussion and dialogue	Direct questions
GRADE 6	1	Theoretical knowledge and applied analysis	Sweetened with water	Lecture, discussion and dialogue	Direct questions
Seventh	1	Theoretical knowledge and applied analysis	What is added to the knowledge of	Lecture, discussion and dialogue	Direct questions
Eighth	1	Theoretical knowledge and applied analysis	Hamza Medium	Lecture, discussion and dialogue	Direct questions
Ninth	1	Theoretical knowledge and applied analysis	The middle Hamza	Lecture, discussion and dialogue	Direct questions
Tenth	1	Theoretical knowledge and applied analysis	The middle Hamza	Lecture, discussion and dialogue	Direct questions
Eleventh	1	Theoretical knowledge and applied	Taa Al- Marbouta	Lecture, discussion and	Direct questions



		analysis		dialogue	
Twelfth	1	Theoretical knowledge and applied analysis	Al-Ta'al-Masuta	Lecture, discussion and dialogue	Direct questions
Thirteenth	1	Theoretical knowledge and applied analysis	Places of distraction in speech	Lecture, discussion and dialogue	Direct questions
Fourteenth	1	Theoretical knowledge and applied analysis	Alzad and Alzaa and the difference between them	Lecture, discussion and dialogue	Direct questions
Fifteenth	1		Monthly exam		Monthly exam
Week 16	1	Theoretical knowledge and applied analysis	A quick review of the vocabulary of the first chapter	Lecture, discussion and dialogue	Direct questions
Week 17	1	Theoretical knowledge and applied analysis	Cutting Hamza and Link Hamza	Lecture, discussion and dialogue	Direct questions
Week 18	1	Theoretical knowledge and applied analysis	Ages of Arabic Literature (Overview in Theories of	Lecture, discussion and dialogue	Direct questions



			the Division of Literature)		
Week 19	1	Theoretical knowledge and applied analysis	Arabic Literary Era (Pre-Islamic Era, Islamic Era, Abbasid Era)	Lecture, discussion and dialogue	Direct questions
Week 20	1	Theoretical knowledge and applied analysis	The eras of Arabic literature (the era of states and emirates , the modern era or the Renaissance)	Lecture, discussion and dialogue	Direct questions
Week 21	1	Theoretical knowledge and applied analysis	Literature's job or mission in life	Lecture, discussion and dialogue	Direct questions
Week 22	1	Theoretical knowledge and applied analysis	Ka 'b ibn Zuhayr , His Life and Poetry	Lecture, discussion and dialogue	Direct questions
Week 23	1	Theoretical knowledge and applied analysis	Bant Souad's poem, reading and analysis	Lecture, discussion and dialogue	Direct questions
Week 24	1	Theoretical	The artistic	Lecture,	Direct



		knowledge and applied analysis	and objective value of Bant Suad's poem	discussion and dialogue	questions
Week 25	1	Theoretical knowledge and applied analysis	The Sermon of the Holy Prophet in the Farewell Pilgrimage	Lecture, discussion and dialogue	Direct questions
The Twenty-Second Week	1	Theoretical knowledge and applied analysis	The Sermon of the Holy Prophet in the Farewell Pilgrimage	Lecture, discussion and dialogue	Direct questions
Week 27	1	Theoretical knowledge and applied analysis	Inheritance verses from Surat An-Nisa	Lecture, discussion and dialogue	Direct questions
28th week	1	Theoretical knowledge and applied analysis	Inheritance verses from Surat An-Nisa	Lecture, discussion and dialogue	Direct questions
Week 29	1		Monthly Exam		Monthly Exam
Week 30	1	Theoretical knowledge and applied analysis	Final review of Chapter 2 vocabulary	Lecture, discussion and dialogue	Direct questions

1. Course Evaluation



1. Written and oral tests (15) marks 2. Mid-year exams (25) marks 3. Final exams (60) marks	
2. Learning and Teaching Resources	
Required textbooks (methodology if any)	
Key References (Sources)	Sharḥ Ibn Aqīl ' Alī Alfiyyah Ibn M
Recommended supporting books and references (scientific journals, reports ...)	Sufficient grammar: Abbas Hassan Grammar Meanings: Dr. Fadel Al-Samarrai
Electronic references, websites	Alouka website, Wadood Library, Waqf Library –



Course Description

1. Course Name	
Computer	
2. Code/No.	
HAEPSMA25F204	
3. Term / Year	
2024 - 2025	
4. Date of preparation of this description	
2/9/2024	
5. Available Attendance Forms	
Attendance (2 hours per week) – Electronic class	
6. Number of study hours (total)/number of units (total)	
60 /2	
7. Course Admin Name	
Name: Asst.Lect. Noor Hussein Abdulla Email: noorhussain@uohamdaniya.edu.iq	
8. Course Objectives	
Objectives of the course	- Learn Microsoft Office programs. - Learn the MATLAB system .
9. Teaching and Learning Strategies	
Strategy	1. Reading the books and vises of the curriculum.



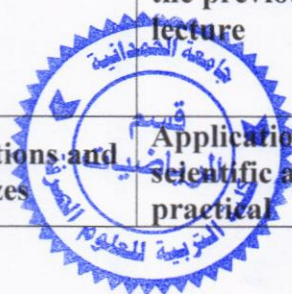
	2. Trainings and activities during and outside the lecture. 3. Presentations on the lecture topics prepared by me. 4. Lecture, discussion, dialogue and applied analysis.
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10. Course Structure

Week	Hours	Intended Learning Outcomes	Unit or subject name	Learning Method	Method of Evaluation
First	2	Acquire knowledge	Definition of Microsoft office word processor software and definition of homepage and existing bars	Explanation and Discussion	Grading of participants
Second	2	Acquiring skills	Practical application	Skills Training	Provide encouragement incentives
Third	2	Acquire knowledge	Review all word commands	Explain, discuss and apply	Giving scores to participants and conducting a daily exam in the previous lecture
Fourth	2	Acquiring skills	Practical application of the whole program	Skills Training	Provide encouragement incentives
Fifth	2	Acquire knowledge	Definition of Presentation Program power point Definition of homepage and existing bars	Explain, discuss and apply	Grading of participants



GRADE 6	2	Acquiring skills	Practical application	Skills Training	Provide encouragement incentives
Sevent h	2	Acquire knowledge	Insert, delete and duplicate slides and slide design	Explain, discuss and apply	Giving scores to participants and conducting a daily exam in the previous lecture
Eighth	2	Acquiring skills	Practical application	Skills Training	Provide encouragement incentives
Ninth	2	Acquire knowledge	Kinematic effects on objects and transitions of slides	Explain, discuss and apply	Giving scores to participants and conducting a daily exam in the previous lecture
Tenth	2	Acquiring skills	Practical application	Skills Training	Provide encouragement incentives
Elevent h	2	Acquire knowledge	Microsoft Excel Definition Definition of homepage and existing bars	Explain, discuss and apply	Grading of participants
Twelfth	2	Acquiring skills	Practical application	Skills Training	Provide encouragement incentives
Thirtee nth	2	Acquire knowledge	Organizing, arranging and coordinatin g tables, their uses and simple mathematic al operations	Explain, discuss and apply	Giving scores to participants and conducting a daily exam in the previous lecture
Fourtee	2	Knowledge Measurement	Theoretical Quarterly Test	Questions and Quizzes	Application of scientific and practical



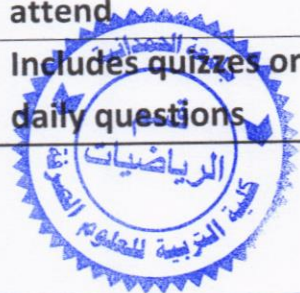
nth					testing standards
Fifteenth	2	UNTRANSLATED_CONTENT_STARTUNTRANSLATED_CONTENT_END	Quarterly Practical Test	Submission of projects	Application of scientific and practical testing standards
Week 16	2	Acquire knowledge	Matlab Software Definition and Software Interface Components	Explain, discuss and apply	Grading of participants
Week 17	2	Acquiring skills	Practical application	Skills Training	Provide encouragement incentives
Week 18	2	Acquire knowledge	Functions in Matlab	Explain, discuss and apply	Giving scores to participants and conducting a daily exam in the previous lecture
Week 19	2	Acquiring skills	Practical application	Skills Training	Provide encouragement incentives
Week 20	2	Acquire knowledge	Drawing on Matlab	Explain, discuss and apply	Giving scores to participants and conducting a daily exam in the previous lecture
Week 21	2	Acquiring skills	Practical application	Skills Training	Provide encouragement incentives
Week 22	2	Acquire knowledge	Calculations and important orders in Matlab	Explain, discuss and apply	Giving scores to participants and conducting a daily exam in the previous lecture
Week 23	2	Acquiring skills	Practical application	Skills Training	Provide encouragement incentives



Week 24	2	Acquire knowledge	Vectors and Matrices in Matlab	Explain, discuss and apply	Giving scores to participants and conducting a daily exam in the previous lecture
Week 25	2	Acquiring skills	Practical application	Skills Training	Provide encouragement incentives
Week 26	2	Acquire knowledge	Basic operations and functions of vectors	Explain, discuss and apply	Giving scores to participants and conducting a daily exam in the previous lecture
Week 27	2	Acquire knowledge	Matlab matrix algebra	Explain, discuss and apply	Giving scores to participants and conducting a daily exam in the previous lecture
Week 28	2	Acquiring skills	Practical application	Skills Training	Provide encouragement incentives
Week 29	2	Knowledge Measurement	Theoretical Quarterly Test	Questions and Quizzes	Application of scientific and practical testing standards
Week 30	2	UNTRANSLATED_CONTENT_START UNTRANSLATED_CONTENT_END	Quarterly Practical Test	Submission of projects	Application of scientific and practical testing standards

11.Course Evaluation

Preparation today	10 degrees	Includes interaction and commitment to attend
Daily exams (oral and written)	UNTRANSLATED_C	Includes quizzes or daily questions



	CONTENT_START	
	15	
Monthly Exams (Theory)	20 degrees	Performed once or twice a month
Monthly exams (practical or practical)	10 degrees	For courses that have a practical aspect
Homework & Reports	15	Includes research, activities, written assignments
Discipline, Behavior, and Classroom Participation	10 degrees	The student's behavior in the classroom and his interaction with the teacher
Written Final Exam (Monthly or Quarterly)	20 degrees	Exam covering a semester
12.Learning and Teaching Resources		
Required textbooks (methodology if any)	Bound by the preparation of the subject tea	
Key References (Sources)	1. "Learning Matlab",Driscoll,Siam, 2009 2. "What Every Engineer Should Know About Matlab 3. and Simulink",Biran Breiner,CRC Press,Inc., 2011.	
Recommended supporting books and references (scientific journals, reports ...)	Ihab Abu Al-Azm, International Computer Driving License, Dar Al-Hikma for Printing, 2018.	
Electronic references, websites	https://download-internet-pdf-ebooks.com/47-1-library-books	

Course Description Form

1. Course Name

Foundations of Mathematics

2. Code/No.

HAEPSMA25F102

3. Semester/year

2024-2025

4. The date of preparing this description

1/12/2024

5- Available forms of attendance

F2F Component:

6. Number of Credit Hours (total) / Number of Units (total)

120-61-6

7. Course administrator's name (mention all, if more than one name)

Name: Dr. Sahbaa Abdul Sattar Younis Email: sahbaa1977@uohamdaniya.edu.iq
Asst. Lect. Waleed Abdul Majeed Saeed

8. Course objectives

Course objectives

Introducing students to the basic principles of mathematics, bilateral and algebraic relations, and their characteristics and some applications

9. Teaching and learning strategies

Strategy

1. Discussion:
2. Classroom activities
3. Giving examples and questions that stimulate the student's thinking

10. Course Structure



Week	Hours	Required Learning outcomes	Unit or subject name	Learning method	Method of Evaluation
1	4	Theoretical knowledge and applied analysis	Mathematical logic	Direct questions	Direct questions.
2	4	Theoretical knowledge and applied analysis	Algebra of Phrases	Direct questions	
3	4	Theoretical knowledge and applied analysis	Open and fenced expressions	Direct questions	
4	4	Theoretical knowledge and applied analysis	Groups and Group Algebra	Direct questions	
5	4	Theoretical knowledge and applied analysis	Relationship Concept	Direct questions	
6	4	Theoretical knowledge and applied analysis	The starting point and stability of the relationship	Direct questions	
7	4	Theoretical knowledge and applied analysis	Types of relationships and their composition	Direct questions	
Eighth	4	Theoretical knowledge and applied analysis	Equivalence Classes + Monthly Exam	Direct questions	
Ninth	4	Theoretical	Specific and	Direct	



		knowledge and applied analysis	private applications	questions	
tenth	4	Theoretical knowledge and applied analysis	Application Specific Theorems		Monthly Exam
11th Grade	4	Theoretical knowledge and applied analysis	Peer Application	Direct questions	
twentieth	4	Theoretical knowledge and applied analysis	Group capacity	Direct questions	
The thirteenth	4	Theoretical knowledge and applied analysis	Ordinal numbers	Direct questions	
Fourteenth	4	Theoretical knowledge and applied analysis	Natural numbers group	Direct questions	
Fifteenth	4	Theoretical knowledge and applied analysis	Creating natural numbers	Direct questions	
Week 16	4	Theoretical knowledge and applied analysis	Countable Groups	Direct questions	
Week 7	4	Theoretical knowledge and applied analysis	Basic numbers	Direct questions	
Week 8	4	Theoretical knowledge and applied analysis	Natural numbers and their properties	Direct questions	



Week 9	4	Theoretical knowledge and applied analysis	Piano Axioms	Direct questions	
Week 20	4	Theoretical knowledge and applied analysis	BINARY OPERATIONS	Direct questions	
Week 21	4	Theoretical knowledge and applied analysis	Nature's Mathematical System	Direct questions	
Week 22	4	Theoretical knowledge and applied analysis	Binary and system theorems	Monthly Exam	Monthly Exam
Week 23	4	Theoretical knowledge and applied analysis	Octal number system	Discussion and dialogue	
Week 24	4	Theoretical knowledge and applied analysis	Some proofs of the numerical system	Discussion and dialogue	
Week 25	4	Theoretical knowledge and applied analysis	Monolithic system	Discussion and dialogue	
Week 26	4	Theoretical knowledge and applied analysis	Definitions of the neutral and peer element and practical examples	Discussion and dialogue	
Week 27	4	Theoretical knowledge and applied analysis	Definition of a Group	Discussion and dialogue	



Week 28	4	Theoretical knowledge and applied analysis	Group Theorems	Discussion and dialogue	
Week 29	4	Theoretical knowledge and applied analysis	Isomerism	Discussion and dialogue	
Week 30	4		Exam		

.1

11. Course Evaluation

15 for daily and monthly exams – 25 for mid-year exams – 60 for final exams

12. Learning and Teaching Resources

Required textbooks (methodology if any)	Fundamentals of Mathematics
Key References (Sources)	Fundamentals of Mathematics book/Hadi Jaber Mustafa
Supporting Books and References Recommended (Scientific Journals , Reports,....)	Origins of Mathematics / Alfred North /1910
Electronic Refernces,Internet Sites	YouTube



Course Description

1. Course Name	
Computer 1	
2. Course Code	
-	
3. Semester/Year	
2025-2024	
4. Date of preparation of this description	
1/5/2025	
5. Available Forms of Attendance	
Physical (2 hours per week) – Electronic class	
6. Number of Hours (Total) / Number of Credits (Total)	
60 /2	
7. Course administrator name	
Name: Eng. Noor Hussain Abdullah Email: noorhussain@uohamdaniya.edu.iq	
8. Course Objectives	
- Learn the basic principles of computers. - Learn operating systems. - Learn Microsoft Office programs .	Course Objectives 

9. Teaching and Learning Strategies					
1. Reading books and lieutenants related to the curriculum. 2. Exercises and activities during and outside the lecture. 3. Presentations on the topics of the lecture prepared by me. 4. Lecture, discussion, dialogue, and applied analysis.				Strategy	
10.Course Structure					
Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Hours	Week
Awarding Degrees to Participants	Explanation and Discussion	Introduction to Computers, Basic Computer Operations and Computer Classifications	Gain knowledge	2	First
Awarding Degrees to Participants	Explanation and Discussion	PC Main Parts, I/O Modules	Gain knowledge	2	Second
Awarding Degrees to Participants	Explanation and Discussion	Main memory, memory units and types of software	Gain knowledge	2	Third
Providing incentives for encouragement	Explanation and Discussion	Software Ownership and Virus Protection	Gain knowledge	2	Fourth
Applying Scientific and Practical	Questions and Quizzes	Daily Theoretical Exam of	Knowledge Measurement		



Testing Standards		Previous Lectures			
Awarding Degrees to Participants	Explain, Discuss and Apply	Define the Microsoft office word word program and define the main workpage and the existing bars	Gain knowledge	2	Sixth
Awarding Degrees to Participants	Explain, Discuss and Apply	Text creation and processing, text formatting, table handling, spell checking, language settings	Gain knowledge	2	Seventh
Providing incentives for encouragement	Skills Training	Practical Application	Skills acquisition	2	Eighth
Awarding Degrees to Participants	Explain, Discuss and Apply	List: Insert table, insert images, equations, and mathematical symbols	Gain knowledge	2	Ninth
Providing incentives for encouragement	Skills Training	Practical Application	Skills acquisition	2	X
Awarding Degrees to Participants	Explain, Discuss and Apply	Page Layout Menu	Gain knowledge	2	Eleventh
Providing incentives for encouragement	Skills Training	Practical Application	Skills acquisition	2	Twelfth
Granting grades to participants and taking a daily exam in the previous lecture	Explain, Discuss and Apply	Design List	Gain knowledge	2	Thirteenth



Applying Scientific and Practical Testing Standards	Questions and Quizzes	Quarterly Theoretical Test	Knowledge Measurement	2	Fourteenth
Applying Scientific and Practical Testing Standards	Presenting projects	Semester Practical Exam	Measuring skills	2	Fifteenth
Awarding Degrees to Participants	Explain, Discuss and Apply	Definition of PowerPoint Presentation Software and define the main work page and existing bars	Gain knowledge	2	Sixteenth week
Awarding Degrees to Participants	Explain, Discuss and Apply	Insert, delete, duplicate slides and slide design	Gain knowledge	2	Week Seventeen
Awarding Degrees to Participants	Explain, Discuss and Apply	Kinetic effects on objects and the transitional movements of the slides	Gain knowledge	2	Week Eighteenth
Providing incentives for encouragement	Skills Training	Practical Application	Skills acquisition	2	Week Nineteen
Applying Scientific and Practical Testing Standards	Questions and Quizzes	Daily Theoretical Exam of Previous Lectures	Knowledge Measurement	2	Week 20
Awarding Degrees to Participants	Explain, Discuss and Apply	Definition of Excel Spreadsheet Software and define the main work page and existing bars	Gain knowledge	2	Week 21
Awarding Degrees to Participants	Explain, Discuss and Apply	Dealing with cells, formulas and functions	Gain knowledge	2	Week 22



Providing incentives for encouragement	Skills Training	Practical Application	Skills acquisition	2	Week Twenty Three
Awarding Degrees to Participants	Explain, Discuss and Apply	Edit Tables, Print Tables	Gain knowledge	2	Week Twenty Four
Applying Scientific and Practical Testing Standards	Questions and Quizzes	Daily Theoretical Exam of Previous Lectures	Knowledge Measurement	2	Week Twenty Five
Awarding Degrees to Participants	Explain, Discuss and Apply	Introduction to the Internet and Web Browsers, Fundamentals of Computer Networks, Internet Concept and Applications, Search Engines	Gain knowledge	2	Week Twenty Six
Awarding Degrees to Participants	Explain, Discuss and Apply	Communication & Email, Create an Email Account, Send & Receive Messages	Gain knowledge	2	Week twenty seven
Providing incentives for encouragement	Skills Training	Practical Application	Skills acquisition	2	Week Twenty Eight
Applying Scientific and Practical Testing Standards	Questions and Quizzes	Quarterly Theoretical Test	Knowledge Measurement	2	Week twenty ninth
Applying Scientific and Practical Testing Standards	Presenting projects	Semester Practical Exam	Measuring skills	2	Week 30



11.Course Evaluation		
Includes interaction and commitment to attendance	10 Degrees	Daily preparation
Includes quizzes or daily questions	15 degrees	Daily exams (oral and written)
It is done once or twice a month	20 degrees	Monthly (theoretical) exams
For courses that have a practical aspect	10 Degrees	Monthly Exams (Practical or Practical)
Includes research, activities, and clerical assignments	15 degrees	Homework and Reports
Student behavior in the classroom and interaction with the teacher	10 Degrees	Discipline, Behavior, and Classroom Engagement
Exam covering a semester	20 degrees	Final Written Exam (Monthly or Quarterly)
12.Learning and Teaching Resources		
1. Dr. Al-Khader Ali Al-Khader, "Fundamentals of Computers" (2016). 2. Lectures that include the rest of the curriculum vocabulary.	Required textbooks (methodology if available)	
1. Dr. Ziad Mohamed Abboud, Computer and Software, Yusr Al-Mustafa Science Series, Baghdad.	Main References (Sources)	



2. Anita Goel. (2010). Fundamentals of Computers. New Delhi: Pearson Education. 3. Ehsan Mohammed Al- Haysmi, Microsoft Office (2010).	
1. Joule, A. (2010). Computer Basics. Person's education in India. 2. House, D., et al. (2014). Microsoft Word, Excel, and PowerPoint.	Recommended books and references (scientific journals, reports...)
https://download-internet-pdf-ebooks.com/47-1-library-books	Electronic References, Websites



Course Description Form

1. Course Name:	
Linear algebra	
2. Course Code:	
3. Semester / Year:	
yearly	
4. Description Preparation Date:	
1/5/2025	
5. Available Attendance Forms:	
Attendance in the classrooms	
6. Number of Credit Hours (Total) / Number of Units (Total)	
120/6	
7. Course administrator's name (mention all, if more than one name)	
Name: Ilham Matta Yacoob Email: ilhammatta@uohamdaniya.edu.iq	
8. Course Objectives	
Course Objectives	● Teaching first-level students in the Mathematics Department the fundamentals of linear algebra ● Using modern mathematical methods to solve homogeneous and non-homogeneous linear equations ● Utilizing matrices and recognizing the various applications of linear algebra
9. Teaching and Learning Strategies	
Strategy	1- The discussion 2- Activities in the classroom 3- Providing examples and questions that stimulate the 4- student's thinking.



10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Knowledge	MATRICES	The lecture and discussion	The questions
2	4	Knowledge	TYPES OF MATRICES	The lecture and discussion	Exam
3	4	Knowledge	INVERSE OF MATICES	The lecture and discussion	Quiz
4	4	Knowledge	METHODS FOR FINDING THE INVERSE OF A MATRIX	The lecture and discussion	Home works
5	4	Knowledge	DETERMINANT	The lecture and discussion	The questions
6	4	Knowledge	PROPERTIES OF DETERMINANT	The lecture and discussion	Discussion
7	4	Knowledge	INTRODUCTION OF LINEAR SYSTEMS EQUATION	The lecture and discussion	Exam
8	4	Knowledge	METHODS FOR SOLVE LINEAR SYSTEM EQUATION	The lecture and discussion	Question and discussion
9	4	Knowledge	N-DIMENSIONAL EUCLIDEAN SPACE	The lecture and discussion	Home works
10	4	Knowledge	INNER PRODUCT	The lecture and discussion	Exam
11	4	Knowledge	DIRECT PRODUCT	The lecture and discussion	Discussion
12	4	Knowledge	VECTOR SPACE	The lecture and discussion	Discussion
13	4	Knowledge	SUBSPACES	The lecture and discussion	Discussion
14	4	Knowledge	THEOREMS	The lecture and discussion	Discussion

15	4	Knowledge	LINEAR COMBINATION	The lecture and discussion	The questions
16	4	Knowledge	LINEAR INDEPENDENCE	The lecture and discussion	Discussion
17	4	Knowledge	DIFFERENT EXAMPLES	The lecture and discussion	Home works
18	4	Knowledge	BASIS	The lecture and discussion	Discussion
19	4	Knowledge	DIMENSION	The lecture and discussion	Discussion
20	4	Knowledge	ROW SPACE AND COLUMN SPACE MATRICES	The lecture and discussion	Discussion
21	4	Knowledge	RANK OF MATRICES	The lecture and discussion	Quiz
22	4	Knowledge	LINEAR TRANSFORMATIONS	The lecture and discussion	Discussion
23	4	Knowledge	TYPES LINEAR TRANSFORMATIONS	The lecture and discussion	Exam
24	4	Knowledge	KERNAL LINEAR TRANSFORMATION	The lecture and discussion	Discussion
25	4	Knowledge	IMAGE LINEAR TRANSFORMATION	The lecture and discussion	Discussion
26	4	Knowledge	THEOREMS	The lecture and discussion	The questions
27	4	Knowledge	EXAMPLES	The lecture and discussion	Home works
28	4	Knowledge	EIGN VALUES	The lecture and discussion	Exam
29	4	Knowledge	EIGN VECTORS	The lecture and discussion	Discussion
30	4	Knowledge	DIAGONAL MATRIX	The lecture and discussion	Discussion

11. Course Evaluation

1- Written tests



- 2- Adherence to the deadline for submitting assignments and reports
- 3- Active participation

12. Learning and Teaching Resources

Mostow. G. D. and Sampson J. H., Linear Algebra, London, 1969

www.freescience.info/math



Course Description Form

1. Course Name
Democracy and Human Rights
2.Code/No.
3.Term / Year
2024- 2025
4.Date of preparation of this description
2024 - 2025
5.Available Attendance Forms
My Presence
6. Number of study hours (total)/number of units (total)
30 ours/2 units
7.Name of course administrator (if more than one name is mentioned)
Name: Prof.Dr. Amer Ashour Abdullah Email : dr.amerashoor@uohamdaniya.edu.iq
1. Course Objectives
1. Promoting respect for human rights and fundamental freedoms 2. Full development of the human personality and its sense of dignity . 3. Promote understanding, tolerance and gender equality, sincere among all nations and populations Indigenous, ethnic, national, religious and linguistic groups. 4. Enable all individuals to participate effectively in a free society. 5. Advancing United Nations activities for peace-keeping 6 Access to economic, social, cultural and civil rights in



addition to political rights, as well as rights Individual and collective, considering the indivisibility of these rights.

7. Introducing human rights in their regional and international dimensions and the institutions established to implement them.

8. Developing individuals' knowledge of the means and methods by which human rights can be translated into the form of facts

Social and political at the regional and international levels.

9. Informing individuals of their personal rights and instilling respect for others in them .

10. Developing and flourishing the human personality in its emotional, intellectual and social dimensions, and rooting its sense

with dignity, freedom, equality, social justice and democratic practice.

11. Enhancing people's awareness of their rights in a way that helps enable them to turn human rights principles into rights

social, economic, cultural and political, and raise their ability to defend, maintain and promote it on

All levels.

12. Strengthening the bonds of friendship and solidarity among peoples, promoting respect for the rights of others, and preserving pluralism and diversity

culture and the flourishing of the national cultures of all groups and peoples, enriching the culture of dialogue and mutual tolerance and renouncing

violence and terrorism, promoting non-violence and anti-intolerance and giving all people a strong immunity against the rhetoric of

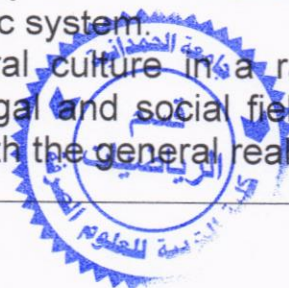
Hatred.

2. Teaching and Learning Strategies

Strategy

1- Increasing human awareness and knowledge of their rights and duties towards society and the relationship of human rights with the democratic system.

2- Giving the student a general culture in a range of fields, including the political, legal and social fields, and linking the theoretical subject with the general reality.



10. Course Structure

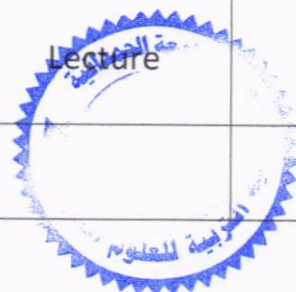
Week	Hours	Intended Learning Outcomes	Unit or subject name	Learning Method	Method of Evaluation
1	1	Learn about the rights of Man in ancient civilizations	Historical development of the idea of human rights	Lecture	Test
2	1	Student's Knowledge of Rights Man in Religions Heavenly	Human rights and divine religions	Lecture	Test
3	1	Student's Knowledge of Rights Man in Islam	Islamic Law	Lecture	Test
4	1	Knowledge of positive laws	The Development of Human Rights in Positive Laws	Lecture	Test
5	1	Introducing rights Man in the Constitution Republic of Iraq P	Constitution of Iraq	Lecture	Test
6	1	Knowledge of the emergence of organizations and their role in Human rights	International dealing with human rights	Lecture	Test
7	1	Getting to know the United Nations	United Nations	Discussion	Test



8	1	What are human rights	Introducing human rights	Lecture	Test
9	1	The student knows the frame Principles and Characteristics Human rights	Divisions of human rights	Lecture	Test
10	1	Learning about collective rights	Collective human rights	Discussion	Test
11	1	Learning about individual rights	Individual human rights	Lecture	Test
12	1	Behavioral Knowledge	Guarantees for the respect and protection of human rights	Lecture	Test
13	1	Behavioral Knowledge	Guarantees of human rights and freedoms at the international level	Lecture	Test
14.00	1	Behavioral Knowledge	Human rights and the phenomenon of administrative corruption	Lecture	Test
15	1	Behavioral Knowledge	Causes and factors of administrative corruption	Lecture	Test
16	1	Behavioral Knowledge	Treatment of corruption and the development of modern administrations	Lecture	Test
17	1	Behavioral Knowledge	A review of the vocabulary of the material	Lecture	Test
18	1	Knowledge of dm earrings Contemporary	Introducing Democracy	Lecture	Test



19	1	Knowledge of Pillars and the mechanisms of democracy	Components of Democracy	Lecture	Test
20	1	Behavioral Knowledge	Models of Democracy	Lecture	Test
21	1	Achieving knowledge goals	How to make the transition to democracy	Discussion	Test
22	1	Achieving knowledge goals	The political system and its types	Discussion	Test
23	1	Achieving knowledge goals	Democracy and State Administration Systems	Lecture	Test
24.00		Achieving knowledge goals	Problems of democracy	Lecture	Test
25	1	Achieving knowledge goals	Federal State	Lecture	Test
26	1	Achieving knowledge goals	The position of Islamic thought on democracy	Lecture	Test
27	1	Achieving knowledge goals	Pillars of Democracy - Mechanisms of Democracy	Lecture	Test
28	1	Recognize the relationship between democracy and Human Rights	Relationship between Democracy and human rights Human	Lecture	Test
29	1	Achieving knowledge goals	Evaluation Examination	Lecture	Test
30	1	Achieving knowledge	A review of the vocabulary of the		Test



		goals	material		
1. Course Evaluation					
1. Written and oral tests. (15) degrees 2. 25 marks for semi-annual exams. 60 marks for final exams					
2. Learning and Teaching Resources					
Required textbooks (methodology if any)			Prof.Dr. Riyad Aziz Hadi , Human Rights		
Key References (Sources)			Amer Hassan Fayyad , methodological introduction to public opinion and human rights Human , Zahran Publishing and Distribution House, Amman - Jordan , 2010 Alaa Al-Din Kazim , Human Rights and Academic Freedoms in Higher Education, Kirkuk , 2011 . Faisal Shatnawi – Human Rights and International Humanitarian Law, Al-Hamid Publishing and Distribution House and Library, Amman - Jordan , 1999 . 1985 United Nations documents, Final Act of the Vienna Conference OF 1978		
Recommended supporting books and references (scientific journals, reports ...)			Iman Mohamed Hassan , The Global and Regional Development of the Concept of Rights Human Rights and its Implications for Human Rights Organizations, Arab Network For NGOs, 2006 . Khaled Ismail Ali Ghonim, Human Rights in Islam , University of Michigan 2004 . Najm Abboud Mahdi , Principles of Human Rights, Dar Al-Kutub Al-Ilmiyyah.		
Electronic references, websites			United Nations documents on human rights and democracy , available		



On the website :
[https://www.un.org/en/sections/issuerights-
depth/human](https://www.un.org/en/sections/issuerights-depth/human)



Cours Description Form

1. Course Name

Calculus.

2. Code/No.

HAEPSMA24F100

3. Semester/year

2024-2025

4-The date of preparing this description

1/04/2025

5-Available forms of attendance

F2F Component:

6.Number of Credit Hours (total)/ Number of Units (total)

150hours / 8 units

7.Cours adiministrator's name

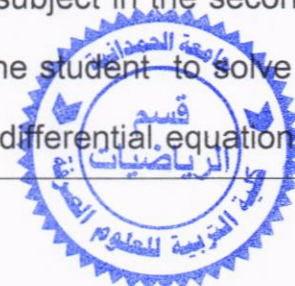
Name:Dr. Hikmat Sharif Mustafa

Email: hekmat78@uohamdaniya.edu.iq

8. Course objectives

Course objectives

- Qualifying and training the student and teaching him the rules and methods of ordinary differentials and their applications and the methods of ordinary integrals and benefiting from them in the advanced differential subject in the second stage and qualifying the student to solve ordinary and partial differential equations and linking



them with the rest of the topics .Calculus lectures are given 5 theoretical hours per week.

9.Teaching and learning strategies

Strategy

- *Managing the lecture in a way that indicates the importance of time
- *Assigning students some group assignments
- *Assigning students to collect sources and references and write a report on the title of the lecture



Week	Hours	Required Learning outcomes	Unit or subject name	Learning method	Method of Evaluation
1	5	Theoretical knowledge and applied analysis	Definition of the set of numbers and definition of periods with examples of inequalities, absolute value and their properties	According to the teaching and learning methods mentioned above	Direct questions
2	5	Theoretical knowledge and applied analysis	Function composition	According to the teaching and learning methods mentioned above	Direct questions
3	5	Theoretical knowledge and applied analysis	Types of functions (fixed , subjective ,absolute, quadratic polynomial)	According to the teaching and learning methods mentioned above	Direct questions
4	5	Theoretical knowledge and applied analysis	Types of functions (square root ,even and odd, sign function,relativity , maximum integer function)	According to the teaching and learning methods mentioned above	Direct questions
5	5	Theoretical knowledge and applied analysis	Trigonometric functions with proofs	According to the teaching and learning methods mentioned above	Direct questions
6	5	Theoretical knowledge and applied analysis	Objective	According to the teaching and learning methods mentioned above	Direct questions
	5	Theoretical knowledge	Purpose using the definition and finding the	According to the teaching and	UNTRANSLATED_CONTENT المباشرة UNTRANSLATED_CONTE



7	5	Theoretical knowledge and applied analysis	Purpose using the definition and finding the purpose from one side + the half-course exam	According to the teaching and learning methods mentioned above	Direct questions
8	5	Theoretical knowledge and applied analysis	Continuity (definition of continuity, continuity conditions) with various examples	According to the teaching and learning methods mentioned above	Direct questions
9.	5	Theoretical knowledge and applied analysis	Clarifying the relationship between purpose and continuity through various examples and solving exercises and duties	According to the teaching and learning methods mentioned above	Direct questions
10	5	Theoretical knowledge and applied analysis	Solve various questions about purpose and continuity based on students' questions	According to the teaching and learning methods mentioned above	Direct questions
11	5	Theoretical knowledge and applied analysis	Defining the derivative mathematically and physically with the graph and finding the derivative using the	According to the teaching and learning	Direct questions



			definition with examples	methods mentioned above	
12	5	Theoretical knowledge and applied analysis	Deriving Trigonometric Functions with Various Examples	According to the teaching and learning methods mentioned above	Direct questions
13	5	Theoretical knowledge and applied analysis	Laws of hyperbolic and derivative functions of higher ranks and implicit derivation	According to the teaching and learning methods mentioned above	Direct questions
14th	5	Theoretical knowledge and applied analysis	L'Obital Base with Miscellaneous Examples	According to the teaching and learning methods mentioned above	Direct questions
15	5	Theoretical knowledge and applied analysis	Seamless Base with Various Examples	According to the teaching and learning methods mentioned above	Direct questions
16	5	Theoretical knowledge and	Inclination and tangent rules with examples	According to the teaching	Direct questions



		applied analysis		and learning methods mentioned above	
17	5	Theoretical knowledge and applied analysis	Rules of Integration with Examples and Integration of Trigonometric Functions	According to the teaching and learning methods mentioned above	Direct questions
18	5	Theoretical knowledge and applied analysis	Finding the Area Below and Above the Curve and the Area Between Two Curves Using Specific Integration	According to the teaching and learning methods mentioned above	Direct questions
19	5	Theoretical knowledge and applied analysis	Inverse functions and finding the domain and the corresponding domain of inverse functions	According to the teaching and learning methods mentioned above	Direct questions
20	5	Theoretical knowledge and applied analysis	Derivative of Inverse Trigonometric Functions and Integration of Inverse Trigonometric Functions with Various Examples	According to the teaching and learning methods mentioned above	Direct questions



21	5	Theoretical knowledge and applied analysis	The derivative of hyperbolic functions and the integration of hyperbolic functions and their rules with examples	According to the teaching and learning methods mentioned above	Direct questions
22	5	Theoretical knowledge and applied analysis	Integration methods (udv method, trigonometric substitution method) With examples	According to the teaching and learning methods mentioned above	Direct questions
23	5	Theoretical knowledge and applied analysis	Compensation method with various examples + daily exam	According to the teaching and learning methods mentioned above	Direct questions
24	5	Theoretical knowledge and applied analysis	The method of dividing fractions (the first case + the second case with examples)	According to the teaching and learning methods mentioned above	Direct questions
25	5	Theoretical knowledge and applied analysis	Finding integration in a way $\sqrt[n]{ax+b}$ + division method with examples + half course exam	According to the teaching and learning methods	Direct questions



				mentioned above	
26	5	Theoretical knowledge and applied analysis	Transcendental functions (definition of the natural logarithmic function, its diagram and properties with various examples)	According to the teaching and learning methods mentioned above	Direct questions
27	5	Theoretical knowledge and applied analysis	The derivation of the natural logarithmic function and its integration with various examples	According to the teaching and learning methods mentioned above	Direct questions
28	5	Theoretical knowledge and applied analysis	Definition of the exponential function, its diagram and properties with examples and the derivative of the exponential function and its integration with examples	According to the teaching and learning methods mentioned above	Direct questions
29	5	Theoretical knowledge and applied analysis	Properties and derivatives(exponential function of base a and logarithmic function of base a)	According to the teaching and learning methods mentioned above	Direct questions
30	5	Theoretical knowledge and	Solve exercises, assignments, and examples focused on	According to the teaching	Direct questions



	applied analysis	the student's weakness	and learning methods mentioned above	
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11. Course Evaluation

15 monthly grades / exams

25° / half year

Final Exam Score

12. Learning and Teaching Resources

Required textbooks (methodology if any)

Calculus

Key References (Sources)

Calculus Theory,

UNTRANSLATED_CONTENT_STAR

Calculus

Electronic Refernces,Internet Sites

YouTube



Course Description Form

1. Course Name	
Arabic Language	
2.Code/No.	
1. Term / Year	
Academic year 2024-2025	
2. Date of preparation of this description	
1/5/2025	
3. Available Attendance Forms	
F2F	
4. Number of study hours (total)/number of units (total)	
30/2	
5. Name of course administrator (if more than one name is mentioned)	
Name: Asst.Lect. Fouad Salem Rasheed Email: fouadsalem@uohamdaniya.edu.iq	
6. Course Objectives	
Objectives of the course	Introducing students of the first stage to chapters of grammar, Arabic literature and dictation in addition to a Quranic text. Providing the opportunity to understand the theoretical and applied dimensions of these sections of grammar and some poetic texts. Enabling students to analyze the sentence syntactically, and to realize the nuances of grammatical and literary



structures.

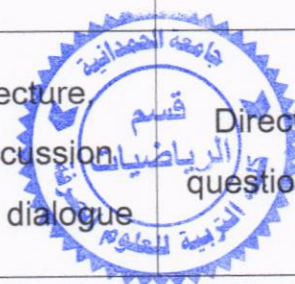
7. Teaching and Learning Strategies

Strategy

1. Understand the basics of Arabic grammar: Students should understand grammar rules and use them in written and verbal contexts.
2. Developing grammatical and literary expression and analysis skills: Students must be able, in simple and effective ways, to understand the syntactic basis of grammatical sections and the semantic meanings of literary texts.
3. Developing skills for the proper expression of ideas, visions and feelings in the linguistic, rhetorical and literary fields.

10. Course Structure

Week	Hours	Intended Learning Outcomes	Unit or subject name	Learning Method	Method of Evaluation
First	1	Theoretical knowledge and applied analysis	Speech Sections (Overview)	Lecture, discussion and dialogue	Direct questions
Second	1	Theoretical knowledge and applied analysis	Name and Marks	Lecture, discussion and dialogue	Direct questions
Third	1	Theoretical knowledge and applied analysis	Verb and its signs (generic signs)	Lecture discussion and dialogue	Direct questions



Fourth	1	Theoretical knowledge and applied analysis	Signs that come with two types of verbs	Lecture, discussion and dialogue	Direct questions
Fifth	1	Theoretical knowledge and applied analysis	Marks for one type of verb	Lecture, discussion and dialogue	Direct questions
GRADE 6	1	Theoretical knowledge and applied analysis	Letter Types and Signs	Lecture, discussion and dialogue	Direct questions
Seventh	1	Theoretical knowledge and applied analysis	Past tense and instances of its construction	Lecture, discussion and dialogue	Direct questions
Eighth	1	Theoretical knowledge and applied analysis	Command action and instances of its construction	Lecture, discussion and dialogue	Direct questions
Ninth	1	Theoretical knowledge and applied analysis	The present verb and the cases of its construction and cases of its Arabization	Lecture, discussion and dialogue	Direct questions



			(lifting)		
Tenth	1	Theoretical knowledge and applied analysis	The present verb and the cases of its Arabization (monument and assertion)	Lecture, discussion and dialogue	Direct questions
Eleventh	1	Theoretical knowledge and applied analysis	Bader Shaker Al-Sayab	Lecture, discussion and dialogue	Direct questions
Twelfth	1	Theoretical knowledge and applied analysis	Analysis of the poem Song of Rain	Lecture, discussion and dialogue	Direct questions
Thirteenth	1	Theoretical knowledge and applied analysis	Punctuation	Lecture, discussion and dialogue	Direct questions
Fourteenth	1	Theoretical knowledge and applied analysis	Punctuation	Lecture, discussion and dialogue	Direct questions
Fifteenth	1		Monthly exam		Monthly exam
Week 16	1	Theoretical knowledge and applied	Subject	Lecture, discussion and dialogue	Direct questions

		analysis			
Week 17	1	Theoretical knowledge and applied analysis	Deputy perpetrator	Lecture, discussion and dialogue	Direct questions
Week 18	1	Theoretical knowledge and applied analysis	Objectivities	Lecture, discussion and dialogue	Direct questions
Week 19	1	Theoretical knowledge and applied analysis	Effect for it	Lecture, discussion and dialogue	Direct questions
Week 20	1	Theoretical knowledge and applied analysis	Effect	Lecture, discussion and dialogue	Direct questions
Week 21	1	Theoretical knowledge and applied analysis	Beginner and Expertise	Lecture, discussion and dialogue	Direct questions
Week 22	1	Theoretical knowledge and applied analysis	He and her sisters	Lecture, discussion and dialogue	Direct questions
Week 23	1	Theoretical knowledge and applied analysis	She and her sisters	Lecture, discussion and dialogue	Direct questions



Week 24	1	Theoretical knowledge and applied analysis	Hamza Al Wasl	Lecture, discussion and dialogue	Direct questions
Week 25	1	Theoretical knowledge and applied analysis	Cutting Hamza	Lecture, discussion and dialogue	Direct questions
The Twenty-Second Week	1	Theoretical knowledge and applied analysis	Working with him	Lecture, discussion and dialogue	Direct questions
Week 27	1	Theoretical knowledge and applied analysis	Absolute effect	Lecture, discussion and dialogue	Direct questions
28th week	1	Theoretical knowledge and applied analysis	Mikhail Naima	Lecture, discussion and dialogue	Direct questions
Week 29	1		Monthly Exam		Monthly Exam
Week 30	1	Theoretical knowledge and applied analysis	Final review of the vocabulary of the first and second chapters	Lecture, discussion and dialogue	Direct questions

1. Course Evaluation



1. Written and oral tests. (15) degrees

2. 25 marks for semi-annual exams.

3. 60 marks for final exams

2. Learning and Teaching Resources	
Required textbooks (methodology if any)	
Key References (Sources)	Sharḥ Ibn Aqḥīl ' Alī Alfiyyah Ibn M
Recommended supporting books and references (scientific journals, reports ...)	Sufficient grammar: Abbas Hassan
Electronic references, websites	– Grammar Meanings: Dr. Fadel Al-Samarrai



Course Description Form

1. Course Name

English Language

2. Code/No.

HAEPSMA25F109

3. Semester/year

2024-2025

4. The date of preparing this description

12/04/2025

5. Available forms of attendance

F2F - E-Learning

6. Number of Credit Hours (total) / Number of Units (total)

30

7. Course administrator's name (mention all, if more than one name)

Name: Asst.Lect.Rami Issa Ishaq

Email: rami.almusa@uohamdaniya.edu.iq

8. Course objectives

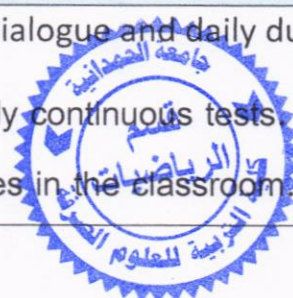
Course objectives

The course aims to enable the student to learn the basics of the English language, introduce them to the example methods by introducing themselves, and introduce the rules of the English language.

9. Teaching and learning strategies

Strategy

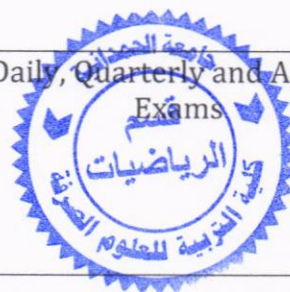
1. Lecture, discussion, dialogue and daily duties
2. Daily snap and weekly continuous tests
3. Trainings and activities in the classroom.



4. Guide students to some sources that contain examples and exercises to benefit from.

10. Course Structure

Week	Hours	Required Learning outcomes	Unit or subject name	Learning method	Method of Evaluation
1	1	- Introducing oneself - verbs-to-be	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
2	1	- verbs-to-be and their negation and question	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
3	1	Using this is, I'm, he is, and other questions	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
4	1	In Numbers English vocabulary and mathematical vocabulary	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
5	1	Countries Possessive adjective and possessive pronouns	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
6	1	Wh-Question words In Numbers	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams



7	1	Singular and plural	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
8	1	Definite and Indefinite articles	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
9	1	Occupation terms and questions on occupation	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
10	1	Negative and shorts answers	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
11	1	Negative and shorts answers	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
12	1	Reading on occupations	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
13	1	Social expressions	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
14	1	Subject pronouns and their usage	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams



15	1	Subject pronouns and contracted forms	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
16	1	Family vocabulary	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
17	1	Possessive 's	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
18	1	Possessive 's	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
19	1	Has/have	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
20	1	Vocabulary on sports, food and drinks	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
21	1	Present Simple	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
22	1	Present simple (Negation and Question)	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams



23	1	Practice on present simple	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
24	1	Language and Nationalities	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
25	1	Numbers and prices	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
26	1	Asking about the time	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
27	1	Frequency adverbs	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
28	1	Days of the weeks	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
29	1	Words that go together	Headway	Explanation of theoretical lectures by the subject teacher using modern teaching and presentation methods	Daily, Quarterly and Annual Exams
30		Exit Exam			



11. Course Evaluation

1. Written and oral tests.
2. Giving grades to students by solving homework and preparing reports on a specific topic.

12. Learning and Teaching Resources

Required textbooks (methodology if any)	Headway beginner
Key References (Sources)	
Supporting Books and References Recommended (Scientific Journals , Reports,....)	The most important books on teaching English, its rules and how to use it daily
Electronic Refernces,Internet Sites	- Websites - virtual library systems



Course Description Form

1. Course Name	
Developmental and Educational Psychology	
2.Code/No.	
HAEPSMA25F105	
1. Term / Year	
2024 - 2025	
2. Date of preparation of this description	
12/4/2025	
3. Available Attendance Forms	
F2F	
4. Number of study hours (total)/number of units (total)	
60 hours/4 units	
5. Name of course administrator (if more than one name is mentioned)	
Name: Asst.Lect. Zahraa Moayad Ramadan Email: zahraa.muayyad.ramadan@uohamdaniya.edu.iq	
6. Course Objectives	
Objectives of the course	Definition of students: - In the concept of psychology and (its origins – its branches – its objectives - its theories) - Some basic concepts such as (motivation – attention awareness – thinking – memory and forgetting - feedback



	developmental psychology and its objectives_developmental characteristics - developmental stages - adolescence) • The possibility of applying these concepts in the educational and psychological aspect.
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7. Teaching and Learning Strategies

Strategy	Educational Applications: Lecture Discussion Exploratory self-learning Extra-curricular duties and activities Enable student to gain knowledge and understanding of developmental psychology
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10. Course Structure

Week	Hours	Intended Learning Outcomes	Unit or subject name	Learning Method	Method of Evaluation
First	2	Theoretical knowledge and practical educational application	Introduction to Psychology ,Evolution Historical Psychology, The Nature of the Science of Self and its importance	Lecture and Discussion	Direct question feedback
Second	2	Theoretical knowledge and practical educational application	Objectives of Psychology ,Schools of Psychology and Branches	Lecture , Discussion	Direct question feedback
Third	2	Theoretical knowledge and practical educational	Behavior .Definition of the behavior and the factors affecting it	Lecture and Discussion , Brainstorming Techniques	Direct question feedback

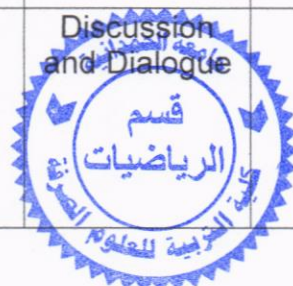
		application			
Fourth	2	Theoretical knowledge and practical educational application	Educational Process and Educational Psychology , Research Methods in Psychology	Lecture and Discussion	Direct question feedback
Fifth	2	Theoretical knowledge and practical educational application	Learning and Teaching and their Characteristics	Lecture, Discussion and Brainstorming Techniques	Direct question feedback
GRADE 6	2	Theoretical knowledge and practical educational application	Not paying attention and sensory perception. The Meaning of Attention Distractions	Lecture and discussion ,methods of scientific skepticism	Direct question feedback
Seventh	2	Theoretical knowledge and practical educational application	Factors Affecting Attention, Sensory Perception	Lecture, Discussion and Brainstorming Techniques	Direct question feedback
Eighth	2	Theoretical knowledge and practical educational application	Meaning of sensitivity and perception ,types of sensations	Lecture, Discussion and Brainstorming Techniques	Direct question feedback
Ninth	2	Theoretical knowledge and practical educational application	Factors affecting sensation and perception, interpretation of inattention	Lecture and Discussion Brainstorming Techniques	Direct question feedback
Tenth	2	Theoretical knowledge and practical educational application	Motivation in learning , the importance of studying motivation, the nature of motivation	Discussion Sessions	Extra-curricular activities
Eleventh	2	Theoretical knowledge and practical educational application	Educational functions of motivation, internal and external motives, strategy	Lecture, discussion and dialogue	Direct question feedback



			Motivation to learn		
Twelfth	2	Theoretical knowledge and practical educational application	The process of remembering and forgetting, types of remembering	Lecture and Discussion Brainstorming Techniques	Direct question feedback
Thirteenth	2	Theoretical knowledge and practical educational application	Factors affecting the process of remembering and forgetting, ways to improve the process of remembering	Lecture and Discussion Collaborative Learning	Direct question feedback
Fourteenth	2	Theoretical knowledge and practical educational application	Interpretation of forgetting its causes, methods of processing information	Lecture and Discussion	Direct question feedback
Fifteenth	2	Theoretical knowledge and practical educational application	Transition of the impact of learning , the importance of studying the transition of the impact of learning , how to benefit from The process of not moving in the process of learning and education	Lecture and Discussion	Direct question feedback
Week 16	2	Theoretical knowledge and practical educational application	Feedback The concept of feedback, the importance of F – Feedback	Lecture, discussion and dialogue	Direct question feedback
Week 17	2	Theoretical knowledge and practical educational application	Feedback types, feedback applications	Lecture, discussion and dialogue	Direct question feedback
Week 18	2	Theoretical knowledge and practical educational application	Thinking , the meaning of thinking, types of thinking	Lecture discussion and dialogue	Direct question feedback



Week 19	2	Theoretical knowledge and practical educational application	but rather the stimulation and development of thinking, the levels of thinking	Lecture, discussion and dialogue	Direct question feedback
Week 20	2	Theoretical knowledge and practical educational application	Learning Theories (Relational Theory) Concepts Basic and educational applications	Lecture, discussion and dialogue	Direct question feedback
Week 21	2	Theoretical knowledge and practical educational application	In theory, you will see the pedagogical applications of the theory	Methods of Brainstorming , Discussion and Lecture	Direct question feedback
Week 22	2	Theoretical knowledge and practical educational application	Instantaneous Learning Theory (Pandora) Applications Pedagogical Theory	Monthly Exam	Direct question feedback
Week 23	2	Theoretical knowledge and practical educational application	Developmental and Behavioral Psychology, Its Objectives , Its Importance	Discussion and Dialogue	Direct question feedback
Week 24	2	Theoretical knowledge and practical educational application	Effect of glands , developmental characteristics	Discussion and Dialogue	Direct question feedback
Week 25	2	Theoretical knowledge and practical educational application	Adolescence Forms, Adolescent Needs,	Discussion and Dialogue	Direct question feedback
Week 26	2	Theoretical knowledge and practical educational application	Growth Stages	Discussion and Dialogue	Direct question feedback
Week 27	2	Theoretical knowledge and practical educational application	The problem of selfishness in children , the problem of shame and aggression and	Discussion and Dialogue	Direct question feedback



			its forms		
Week 28	2	Theoretical knowledge and practical educational application	The problem of lying in children and its forms	Discussion and Dialogue	Direct question feedback
Week 29	2	Theoretical knowledge and practical educational application	Adolescence	Discussion and Dialogue	Direct question feedback
Week 30	2	Theoretical knowledge and practical educational application	Growth Demands	Discussion and Dialogue	By evaluating a practical session

1. Course Evaluation

15 marks for daily examinations, attendance, assignments and reports, 25 marks for semi-annual examinations and 60 marks for final examinations.

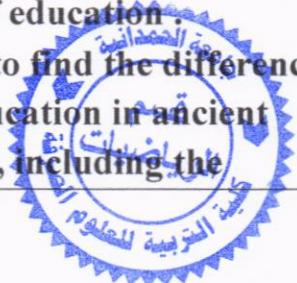
2. Learning and Teaching Resources

Required textbooks (methodology if any)	1- Fundamentals of Educational Psychology, Tawq Adass and Abdul Rahman Adass(1983). -2Methods of Learning and Thinking ,Ismail Ibrahim Ali, and Wissam Tawfiq Al-Mashhadani(2014)
Key References (Sources)	
Recommended supporting books and references (scientific journals, reports ...)	Educational psychology Fadel Erzjawi, Hamed Zahran , Mental Health
Electronic references, websites	Psychology Library - Important Books in Psychology and Special Education - Telegram



Course Description Form

1. Course Name	
Fundamentals of Education	
2. Code/No.	
HAEPSMA25F106	
3. Semester/year	
2024-2025	
4.The date of preparing this description	
1/12/2024	
5.Available forms of attendance	
Classroom Attendance	
6.Number of Credit Hours (total) / Number of Units (total)	
30 /2	
4. 7. Course administrator's name (mention all,if more than one name)	
Name: Eng. Hajar Haider Abdullah Email: hajarhayder@uohamdaniya.edu.iq	
8. Course objectives	
Course objectives	- Demonstrate the student's ability to distinguish between the determinants and characteristics of education and the objectives and functions of education and types of education . - Adjusting the concept of modern education and the most prominent theories, scientists and types of education - The ability to find the difference between education in ancient civilizations, including the



difference between education in the ancient Mesopotamian civilization and education in ancient China

- Distinguish between Arab education in the pre-Islamic era and education in the Islamic era.
- Give the student examples of education in ancient civilizations, including Athenian education and education in India.
- Setting the social foundations of education, the cultural foundations of education, the economic foundations of education and the scientific foundations of education .
- Making the student able to give examples of the negatives and positives of modern education and the negatives and positives of old education.
- Provide part of the lecture time for questions
- Giving some privileges to outstanding students when answering questions
- To solve some of the questions directed to him regarding education in ancient civilizations, including education in the ancient Mesopotamian valley.
- The student should be motivated to give examples of the economic, social and cultural foundations of education



- The student should be keen to attend a lecture on the subject of pedagogy.

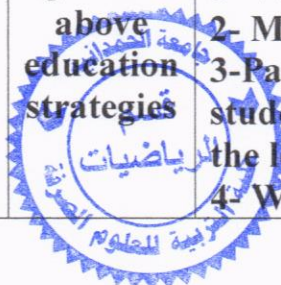
9. Teaching and learning strategies

Strategy

- 1- Learning through cooperation between students.
- 2- Lectures accredited by reliable sources.
- 3- Participation of students in the lecture by asking some questions that have priorities already raised.
- 4- Provide part of the lecture time for the questions.
- 5- Giving some privileges to outstanding students when answering questions.
6. The goal should be clear and specific.
- 7-The goal should be simplified and uncomplicated.
- 8-The objective should include the standard or the level of expected performance.
- 9- Managing the lecture in a way that indicates the importance of time .
- 10- Assigning students some group duties .
- 11- Assigning students to collect sources and references and write a report on the title of the lecture .

10. Course Structure

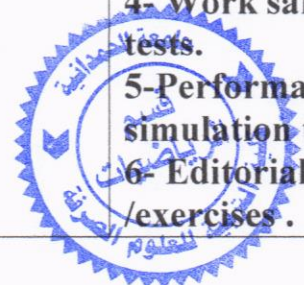
Week	Hours	Required Learning outcomes	Unit or subject name	Learning method	Method of Evaluation
1	1	Definition of education and definition of the linguistic meaning of education and	Introduction to the fundamentals of education , the concept of education	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3- Participation of students during the lecture. 4- Work sample



		the terminological meaning of education.			tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9- Applied tests.
2	1	Definition of education and definition of the linguistic meaning of education and the terminological meaning of education.	The linguistic meaning of education , the terminological meaning of education	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
3	1	Enabling the student to mention the determinants and characteristics of modern education.	Determinants and characteristics of parenting .	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests

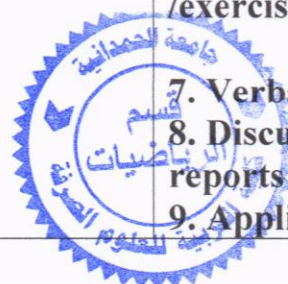


4	1	• .Enabling the student to mention the determinants and characteristics of modern education.	The values of modern education:	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
5	1	• Identify the objectives and functions of education and identify the types of education and patterns of education .	Objectives and Functions of Education .	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
6	1	• Mention the objectives and functions of education and identify the types of education and patterns of education	Types of Parenting	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises .



					7. Verbal tests 8. Discussion of reports . 9. Applied tests
7	1	Identify the objectives and functions of education and identify the types of education and patterns of education	Learning Styles + Half Course Exam	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
8	1	Enabling the student to define modern education and mention its most prominent theories and scientists .	Theories of Modern Education.	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
9	1	Enabling the student to define modern education and mention its	Theories of Modern Education	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample

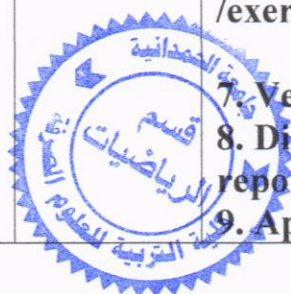
		most prominent theories and scientists			tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
10	1	Enabling the student to define modern education and mention its most prominent theories and scientists	Media of Arab Educational Thought, Media of Western Educational Thought	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
11	1	The student should mention education in ancient civilizations, education in the ancient Mesopotamian civilization and education in ancient China	In Ancient Civilization.	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests



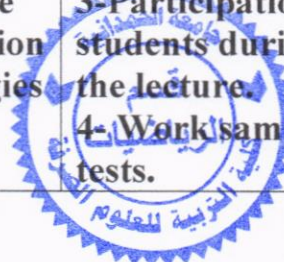
12	1	The student should mention education in ancient civilizations, education in the ancient Mesopotamian civilization and education in ancient China	Education in the ancient Mesopotamian civilization.	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
13	1	The student should mention education in ancient civilizations, education in the ancient Mesopotamian civilization, and education in ancient China.	Education in Ancient China.	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
14	1	The student should mention education in ancient civilizations, education in the ancient Mesopotamia	Arabic Education in the Pre-Islamic Era	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises .

		n civilization, and education in ancient China.			7. Verbal tests 8. Discussion of reports . 9. Applied tests
15	1	The student should mention education in ancient civilizations, education in the ancient Mesopotamian civilization, and education in ancient China.	Arabic Education in the Islamic Era	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
16	1	The student should mention education in ancient civilizations, education in the ancient Mesopotamian civilization, and education in ancient China.	Characteristics of Arab-Islamic Education and Stages of Degradation	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
17	1	The student should mention education in ancient	Education in ancient Greece	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture.

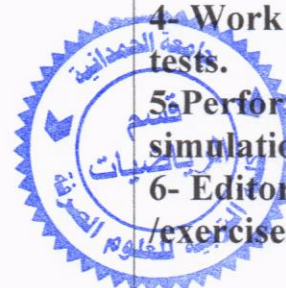
		civilizations, education in the ancient Mesopotamian civilization, and education in ancient China.			4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
18	1	The student should mention education in ancient civilizations, education in the ancient Mesopotamian civilization, and education in ancient China.	Athenian Education and the Characteristics of Athenian Education	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
19	1	The student should mention education in ancient civilizations, education in the ancient Mesopotamian civilization, and education in ancient China.	Education in ancient India	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests



20	1	• Empowering the student with the social foundations of education, the economic foundations of education, the scientific foundations of education, and the cultural foundations of education .	Social Basics of Education + Half Course Examination	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
21	1	• Empowering the student with the social foundations of education, the economic foundations of education, the scientific foundations of education, and the cultural foundations of education .	Relationship between parenting and social control	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
22	1	• Empowering the student with the social foundations of education, the	Economic foundations of education	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests.



		economic foundations of education, the scientific foundations of education, and the cultural foundations of education .			5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
23	1	Empowering the student with the social foundations of education, the economic foundations of education, the scientific foundations of education, and the cultural foundations of education .	Primary sources of funding for education	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
24	1	Empowering the student with the social foundations of education, the economic foundations of education, the scientific	Means to achieve economic development of education	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises .



		foundations of education, and the cultural foundations of education .			7. Verbal tests 8. Discussion of reports . 9. Applied tests
25	1	Empowering the student with the social foundations of education, the economic foundations of education, the scientific foundations of education, and the cultural foundations of education .	The role of vocational education in increasing production and the progress of society	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
26	1	Empowering the student with the social foundations of education, the economic foundations of education, the scientific foundations of education, and the cultural	Scientific foundations of education	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests



		foundations of education .			
27	1	Empowering the student with the social foundations of education, the economic foundations of education, the scientific foundations of education, and the cultural foundations of education .	Scientific Method of Research	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
28	1	Empowering the student with the social foundations of education, the economic foundations of education, the scientific foundations of education, and the cultural foundations of education .	Cultural foundations of education	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests



29	1	Empowering the student with the social foundations of education, the economic foundations of education, the scientific foundations of education, and the cultural foundations of education .	Characteristics of culture	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
30	1	Empowering the student with the social foundations of education, the economic foundations of education, the scientific foundations of education, and the cultural foundations of education .	Relationship of culture to education .	According to the above education strategies	1- Weekly tests. 2- Monthly tests . 3-Participation of students during the lecture. 4- Work sample tests. 5-Performance simulation tests . 6- Editorial tests /exercises . 7. Verbal tests 8. Discussion of reports . 9. Applied tests
11. Course Evaluation					
15 marks for daily tests, homework and monthly exams 25 marks for the mid-year exam					



60 marks for final exams

12. Learning and Teaching Resources	
Required textbooks (methodology if any)	Foundations of Modern Education and Education Systems, Dr. Mohsen Ali Attia ,Dar Al-Manhaj Publishing and Distribution ,2010
Key References (Sources)	Lectures on the foundations of education / Dr. Hamdi Ismail .
Supporting Books and References Recommended (Scientific Journals , Reports,...)	The difference between the principles of education , the foundations of education, the principles of education Ibtisam Abdo Ali / Saudi Arabia/Jazan University.
Electronic Refernces,Internet Sites	-



Course Description Form

1. Course Name:	
General Physics	
2. Course code: HAEPSMA25M	
3. Semester/Year: 2024/2025	
4. Date of preparation of this description: 11/4/2025	
5. Available forms of attendance: in-person education	
6. Number of Credit Hours (total) / Number of Units (total)	
60 hours / 4 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Asst. Lect. Malak Jafar Ali Email: malak.jaafar.ali@uohamdaniya.edu.iq	
8. Course objectives	
Course objectives	Skill objectives for subject A For general physics For first-stage students First In the section mathematics Includes: Understanding the basics of physics The ability to Absorption And understand the foundations Physics And application at These are different. Understand how to arrive at physical equations and solve problems Learn the basic units of measurement .
6. Teaching and learning strategies	



Strategy	Discussion, dialogue and lecture And applied analysis.
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10. Course Structure

Week	Hours	Required Learning outcomes	Unit or subject name	Learning method
First Divorce	2	Theoretical knowledge and applied analysis	Scalar and directional quantities – Addition and subtraction of vectors	Discussion and dialogue
Second	2	Theoretical knowledge and applied analysis	UNTRANSLATED_CONTENT_START UNTRANSLATED_CONTENT_END	Discussion and dialogue
The third	2	Theoretical knowledge and applied analysis	Vector Differentiation – Exercises	Discussion and dialogue
Fourth	2	Theoretical knowledge and applied	movement – speed – acceleration – free fall	Discussion and dialogue



		analysis		
Fifth	2	Theoretical knowledge and applied analysis	Movement in a plane	Discussion and dialogue
Sixth	2	Theoretical knowledge and applied analysis	Velocity and Relative Acceleration – Exercises	Discussion and dialogue
The seventh	2	Theoretical knowledge and applied analysis	Circular motion angular amplitude	Discussion and dialogue
Eighth	2	Theoretical knowledge and applied analysis	Acceleration in circular motion	Discussion and dialogue
Ninth	2	Theoretical knowledge and applied analysis	power – the weight – Center of mass	Discussion and dialogue
tenth	2	Theoretical knowledge and	Newton's Laws of Motion – Momentum	



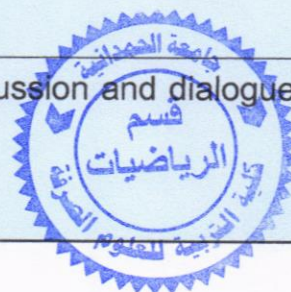
		applied analysis		
11	2	Theoretical knowledge and applied analysis	Work and Energy – Laws of Conservation	Discussion and dialogue
12	2	Theoretical knowledge and applied analysis	Special Theory of Relativity (Phys.)	Discussion and dialogue
13	2	Theoretical knowledge and applied analysis	Change of mass with velocity – exercises	Discussion and dialogue
14	2	Theoretical knowledge and applied analysis	Flexibility, stress, and compliance	Discussion and dialogue
15	2	Theoretical knowledge and applied analysis	Bernouillis equation	Discussion and dialogue
Week 16	2	Theoretical knowledge	Matter and composition of	Discussion and dialogue



		and applied analysis	the atom	
17	2	Theoretical knowledge and applied analysis	Coulomb's law – electric field intensity	Discussion and dialogue
18	2	Theoretical knowledge and applied analysis	Wattage	Discussion and dialogue
19	2	Theoretical knowledge and applied analysis	Electric Field	Discussion and dialogue
20	2	Theoretical knowledge and applied analysis	Kauss' Law – Applications	Discussion and dialogue
Week 21	2	Theoretical knowledge and applied analysis	Voltage	
22	2		Dipole Voltage	Monthly Exam



Week 23	2	Theoretical knowledge and applied analysis	Capacity Relationship to Voltage and Charge Difference	Discussion and dialogue
Week Four	2	Theoretical knowledge and applied analysis	Electric current	Discussion and dialogue
Week 5	2	Theoretical knowledge and applied analysis	Ohm's Law – Mechanical Equivalent	Discussion and dialogue
Week 26	2	Theoretical knowledge and applied analysis	Electromotive Force – Potential and Resistance Difference Measurement	Discussion and dialogue
27	2	Theoretical knowledge and applied analysis	Teston Bridge	Discussion and dialogue
28	2	Theoretical knowledge and	Magnetism – Magnetic flux	Discussion and dialogue



		applied analysis		
29	2	Theoretical knowledge and applied analysis	Piot-Savart law	Discussion and dialogue
30	2		FaraDay s law apparatus	

1. Evaluation of the course, oral dialogue and direct questioning

2. Editorial tests

10 for daily and monthly exams, attendance and assignments

25 for mid-year exams

60 for final exams

12. Learning and Teaching Resources

Required textbooks (methodology if any)

Key References (Sources)

General Physics "Mechanics – Electrical – Magnetic" / Prof. Dr. Fuad Shaker Hashem Al-Jubouri , Prof. Dr. Ali Khalaf Hassan Al-Sunaid/ University of Babylon 2011

Supporting Books and References Recommended (Scientific Journals , Reports,....)

Electronic Refernces,Internet Sites

