Academic program description form



University name: University of Basra

College/Institute: College of Education for Pure Sciences

Scientific Department: Department of Computer Science

Name of the academic or professional program: Bachelor of Computer Science

Name of final degree: Bachelor of Computer Science

Academic system: annual

Description preparation date: 2024 -2025

File filling date: 2024 -2025

The Signature:

Name of scientific assistant: Prof. Dr.

Abdul Sattar Jaber

Date:

The signature

Name of Department Head: Prof. Dr.

Hamed Ali Abdel Assadi

Date:

Check the file from

Division of Quality Assurance and University Performance

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

Dr. Assist. Prof. Dr. Hayder Baqer Abdullah

The date: 2024 -2025

The signature:

Authentication of the Dean

1- Vision of the program

The Department of Computer Science at the College of Education for Pure Sciences at the University of Basra seeks to have a leading role in the field of pedagogical and scientific education by providing distinguished educational services and effective learning opportunities that take into account the balance between quantity and quality in preparing students. It also focuses on high-quality applied scientific research.

2- Mission of the Program

The Computer Science Department continues its role in providing distinguished services to the community and also seeks to keep pace with international standards by providing all support for all of its educational programs.

3- Object of the program

Aims primarily to prepare and graduate a teacher with knowledge, critical thinking, and a sound vision for imparting knowledge and morals that qualify its students to achieve the goals of distinguished citizenship, and to be a good teacher capable of teaching computer science and the development that follows it, and who is qualified to complete his graduate studies. Through the following objectives:

• To be raised to believe in God and love the country, and to interact

with the requirements of good and distinguished citizenship in maintaining a dignified life in which there is mutual respect and accountability.

- To believe in the goals of the educational process and aspire to raise the nation's standing in all scientific and educational aspects.
- To provide information in the field of computer science to cover what is taught in the middle and middle schools in Iraq.
- To keep pace with the great and rapid development in his field of specialization and work to advance himself to the best level.
- To provide information in programming The administration of the schools in which he works is needed to distribute teaching sessions, record student grades, and organize records using a calculator by designing and creating databases for that.
- To assist the teaching staff in schools and students and encourage them to use modern educational techniques and advanced means of illustration that have direct contact with the computer.
- Educational programs and bags for school students. He is able to establish computer laboratories with good specifications in middle and middle schools.
- To keep pace with the labor market and its requirements.

4-	Program	accreditation
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Nothing.

5- Other external influences

Nothing.

6- Program structure

Program structure	Number of courses	Study unit	percentage	Comments
Enterprise requirements	50	178		Basic course
College requirements	no			
Department requirements	no			
Summer training				
Other				

• Notes may include whether the course is core or elective.

7- Program description					
Year/level	Course or course code	Name of the course or course	Credit	hours	
2025-2024/ first		Logical design	Theoretical	Practical	
2025-2024/ first		Structured programming	Theoretical	Practical	
2025-2024/ first		Mathematics	Theoretical		
2025-2024/ first		Computer techniques and organization	Theoretical	Practical	
2025-2024/ first		Discrete structures	Theoretical		
2025-2024/ first		Educational psychology	Theoretical		
2025-2024/ first		Foundations of education	Theoretical		
2025-2024/ first		Human rights and democracy	Theoretical		

2025-2024/	 Arabic	Theoretical	
first			
2025-2024/	 English	Theoretical	
first			
2025-2024/	 Numerical Analysis	Theoretical	Practical
Second			
2025-2024/	 Microprocessors and	Theoretical	Practical
Second	assembly language		
2025-2024/	 System Analysis and	Theoretical	Practical
Second	Database Design		
2025-2024/	 Data Structured	Theoretical	Practical
Second			
2025-2024/	 Computational Theory Theoretic		
Second			
2025-2024/	 Object-Oriented	Theoretical	Practical
Second	Programming		
2025-2024/	 Methodologies of	Theoretical	
Second	Scientific Research		
2025-2024/	 Administration and	Theoretical	
Second	Supervision		
2025-2024/	 Growth Psycology Theoretical -		
Second			

2025-2024/ Second	 Arabic	Theoretical	
2025-2024/ Second	 English	Theoretical	
2025-2024/ Second	 Baath Party crimes	Theoretical	
2025-2024/ Third	 Software Engineering	Theoretical	
2025-2024/ Third	 Compiler Design	Theoretical	Practical
2025-2024/ Third	 Visual Basic Programming	Theoretical	Practical
2025-2024/ Third	 Computer Graphics and Multimedia	Theoretical	Practical
2025-2024/ Third	 Computer Architecture	Theoretical	
2025-2024/ Third	 Artificial Intelligence	Theoretical	Practical
2025-2024/ Third	 Curricula and Methods of Teaching	Theoretical	
2025-2024/ Third	 Advising and Psychological Health	Theoretical	

2025-2024/ Fourth	 Computer and Data Security	Theoretical	Practical	
2025-2024/	 Operating Systems	Theoretical	Practical	
Fourth				
2025-2024/	 Communication &	Theoretical	Practical	
Fourth	Computer Networks			
2025-2024/	 Data Mining	Theoretical		
Fourth				
2025-2024/	 Web Design	Theoretical	Practical	
Fourth				
2025-2024/	 Measure and Evaluations	Theoretical		
Fourth				
2025-2024/	 Practical Education	Theoretical		
Fourth	(Observation and			
2025-2024/	 Research Project	Theoretical		
Fourth				

8- Expected learning outcomes of the programmed

Knowledge

A1- Knowledge: enabling the student to understand the physical components of computers, computer software and information technologies and the ability to recall information related to the above.

A. Cognitive goals

A2- Comprehension, enabling the student to translate theoretical concepts into computer programs and information technologies, as well as understanding and knowing the relationships that exist between theoretical concepts and the ability to deduce.

A3- Application, enabling the student to apply the scientific concepts he has studied on the ground, that is, in practical life

A4- Analysis: enabling the student to analyze the problem into parts, find a solution for each part, and then link the solutions together to give a complete solution to the problem.

A5- Installation: Enabling the student to create

unconventional and previously unused software and technologies for information

A6- Evaluation: enabling the student to evaluate and evaluate the available software and information technologies

Skills

B1 - Observation: Providing a set of software and information technologies for the student for the purpose of studying and observing them

B2 - Simulation: enabling the student to prepare and write programs and information technologies under the direct supervision of the professor, which is an imitation of programs and information technologies presented to him.

B3 - Experimentation, which is similar to the previous goal except that the teaching supervision of the student is less and the student must implement the professor's directions and instructions.

B- The program's skill objectives

B4 - Practice, enabling the student to prepare and write software and information technologies without any guidance from the teacher and with the fewest possible number of errors.

B5 - Mastery, enabling the student to master programming tools and information technologies and prepare and write

correct programs and information technologies.
B6 - Creativity, enabling the student to be creative and
creative in preparing and writing correct software and
information technologies.
Value
Developing students' abilities to share ideas is an essential
skill for their success in computer science. By sharing their
ideas, students can:
☐ Learn effective communication skills: Sharing ideas
gives students the opportunity to practice effective
communication skills, such as speaking, listening, and
writing skills.
☐ Enhancing critical thinking skills: By sharing their
ideas and receiving feedback from others, students can
enhance their critical thinking, problem-solving and analysis
skills.
Developing teamwork skills: Sharing ideas is an
essential part of group work, as students can work together
to develop new ideas and innovative solutions to problems.
Building self-confidence: By sharing their ideas and
receiving appreciation from others, students can build their

confidence and abilities.

- ☐ Increase creativity: Sharing ideas encourages creative thinking and developing new solutions to problems.
- Here are some ways to develop students' ability to share ideas in the Computer Science Department:

1. Creating a safe environment for expressing opinions

Computer Science professors must create a safe environment in which students can express their opinions without fear of ridicule or criticism.

2. .Encouraging discussion and debate

Discussion and debate can be encouraged in class by asking open-ended questions and motivating students to exchange ideas.

3. Using interactive educational techniques

Interactive educational techniques, such as discussion groups and brainstorming, can be used to develop students' abilities to share ideas.

4. Providing opportunities for teamwork

Opportunities for teamwork can be provided through group projects and practical experiences.

Providing students with the opportunity to give presentations

Students can be given the opportunity to give presentations to explain their ideas and projects.

6. Assess students on their ability to share ideas

Students can be assessed on their ability to share ideas through tasks that require them to express their opinions and explain their ideas.

7. Providing opportunities for students to participate in conferences and workshops

Opportunities can be provided for students to participate in conferences and workshops to share their ideas with experts in the field of computer science.

8. Encouraging students to publish their research

Students can be encouraged to publish their research in scientific journals and websites.

9. Use social media to share ideas

Social media can be used to share ideas with other students

and experts in the field of computer science.
10. Providing opportunities for students to communicate with graduates of the Computer Science Department
Opportunities can be provided for students to connect with Computer Science graduates to learn about their experiences in sharing ideas in the field of work.

9- Teaching and learning strategies

This part of the strategy includes the teaching methods used that are in line with the nature of the computer science student and that impose different educational methods that suit them and achieve the maximum benefit. In order to achieve this desired benefit, the department's education system relies on self-learning, interactive and applied methods, using different methods of teaching and learning.

Teaching and learning methods in the department:

1. Lectures;

Lectures represent the largest proportion of core courses in the bachelor's program to establish the basic principles of computer science for all department students.

Audio-visual aids are used in lectures: the scientific material is prepared on the presentation program and displayed using the display devices for those presentations, where questions or activities carried out by the student are integrated between the scientific concepts presented, and there is no doubt that this interaction between the student and the lecturer prevents distraction. It helps the student to focus for as long as possible

2. Discussion

It is a style in which The faculty member and the student are in a positive position, as the issue or topic is raised, after which the student's different opinions are exchanged. Then the faculty member follows up on that with what is correct and what is incorrect, and crystallizes all of that into points about the topic or problem.

3. Peer teaching

This method is followed in many courses, where some students are assigned to prepare some topics related to the scientific material in the form of seminars and then present them to their colleagues in the form of presentations with a full explanation of those topics. This is done under the supervision of the faculty member who reviews the scientific material. Before presenting it to the student, he corrects any errors and asks to add what he deems appropriate. The student also encourages listeners to direct questions and inquiries to their colleague who is presenting.

4. Practical work

A large number of the courses taught in the department contain an applied part. In

this method, the student applies what has been explained by the faculty member and under his supervision.

5. Education based on technical resources

Computer-aided education - audio-visual media - World Wide Web (www).

10- Evaluation methods

The department's student evaluation methods take into account the measurement of the targeted learning outcomes that were achieved through previous learning methods, and the student is evaluated through:

Written theoretical tests, which measure all the targeted learning outcomes that can be measured through this type of tests, not only knowledge, but also all mental skills, through diversification in the types of questions used.

Practical tests and other tests represented by other assessment methods that differ from one course to another with the aim of achieving the targeted learning outcomes for each course and include:

Semester work
Tasks, assignments and projects
To examine the process
Daily exams

11- The teaching staff

Faculty members						
Scientific rank	Specialization		Requireme /nts special skills (If any)		Preparing the teaching staff	
	private	General			temporal	Permanent employee
Professo r	networks	Computer and communication s engineering				Permanent employee
Professo r	Systems and information	computer science				Permanent employee
Assistan t Professo r	Computer application techniques	computer science				Permanent employee
Assistan t Professo r	Applied computer technology	computer science				Permanent employee
Assistan t Professo r	Network security	computer science				Permanent employee
Assistan t Professo r	Islamic history	history				Permanent employee
Teacher	Artificial	computer				Permanent

	intelligence	science		employee
	Information			Permanent
Teacher	systems and	computer	 	 employee
readilei	software	science		
	engineering			
Teacher	Psychological	Educational		Permanent
	counseling and	guidance	 	 employee
	educational			
	guidance			
Teacher	Image	computer	 	 Permanent
	processing	science		employee
Teacher	Computer	computer	 	 Permanent
	vision	science		employee
Teacher	Visual	computer		Permanent
	computing	science	 	 employee
Teacher	Information	computer		Permanent
	technology and	science	 	 employee
	communication		 	
	S			
Teacher	Data mining	computer	 	 Permanent
		science	 	 employee
assistant	Computer	computer		 Permanent
teacher	security	science	 	 employee
assistant	Artificial	computer		Permanent
teacher	intelligence	science	 	 employee

Professional development

Orienting new faculty members

Professional development for new CS department members is essential to ensure they have the skills and knowledge needed to succeed in their careers . Here are

some ways to develop their skills:

1. Providing orientation programs:

Orientation programs can be provided for new CS department members to help them adapt to the new work environment and learn how to use the resources available to them.

2. Providing training courses:

Training courses can be offered to new members of the Computer Science Department in various areas, such as teaching skills, research skills, and information technology use skills.

3. Encouraging attendance at conferences and workshops:

New members of the Computer Science Department are encouraged to attend conferences and workshops to keep up with the latest developments in the field of computer science.

4. Providing opportunities to communicate with experts:

Opportunities can be provided for new Computer Science Department members to network with experts in the field of Computer Science through mentoring programs or participation in conferences and workshops.

5. Support scientific research:

The scientific research of new members of the Computer Science Department can be supported by providing them with research grants or helping them to publish their research in scientific journals.

6. Evaluating performance and providing feedback:

The performance of new Computer Science department members can be evaluated periodically and feedback provided to them to help them improve their skills and perform their jobs better.

7. Providing opportunities for career advancement:

Career advancement opportunities can be provided to new CS department members through promotion programs or leadership training.

8. Creating a supportive environment for learning:

Computer Science Department management must create an environment supportive of learning and professional growth for its new members.

Professional development for faculty members

Professional development for members of the Computer Science Department is essential to ensure they keep up with the latest developments in this fast-paced field.

Here are some ways to develop the skills of members of the Computer Science Department:

1. Attending conferences and workshops:

Members of the Computer Science Department can attend conferences and workshops to learn about the latest developments in the field of computer science and learn new skills.

2. Taking training courses:

Members of the Computer Science Department can take courses in various areas of computer science, such as programming, information systems design, computer networks, and cybersecurity.

3. Reading books and scientific journals:

Members of the Computer Science Department can read books and scientific journals to learn about the latest research and studies in the field of computer science.

4. Participation in research projects:

Members of the Computer Science Department can participate in research projects to develop their research skills and gain new experiences.

5. Supervision of postgraduate students:

Members of the Computer Science Department can supervise graduate students to develop their teaching and mentoring skills.

6. Volunteering in the community:

Members of the Computer Science Department can volunteer in the community to share their expertise with others and develop their communication and teamwork skills.

7. Use of social media:

Members of the Computer Science Department can use social media to connect with experts in the field of computer science and share their ideas and experiences.

8. Joining professional associations:

Members of the Computer Science Department can join professional associations in the field of computer science to participate in the events and activities organized by these associations.

9. Obtaining professional certificates:

Members of the Computer Science Department can obtain professional certificates in various fields of computer science to demonstrate their skills and experience.

10. Continue learning.

12- Acceptance standard

The department has certain policies in accepting new students and students transferred from other departments in accordance with the controls and laws in force by the Ministry of Higher Education and Scientific Research. With regard to new students, the department follows the general standards determined by the university and college in admission and according to the averages of admission. The Ministerial Council approved the preparatory studies for that year and the criteria for competition among applicants for the scientific departments in the college. However, there are requirements that must be met by the applicant to study computer science at this college Requirements include:

- 1-The student must have an Iraqi secondary school certificate or its equivalent and in the scientific specialization.
- 2-The student is distributed among the scientific departments in the College of Education for Pure Sciences on the basis of competition among applicants according to their grades in the ministerial examination for preparatory study and

their desires and according to the admission plan for the Computer Science Department in that year.

- 3-The student must submit the documents and certificates required of him within a specific period of time.
- 4- A student who holds a high school diploma from outside Iraq must prove that he has completed twelve years of study Primary and secondary school from a recognized school, and must present a certificate equivalent to his secondary school certificate issued by the Ministry of Education in Iraq.

The department annually receives top students in institutes, hosting students from other universities, and students transferred from other universities. The number of academic units is distributed to the student in proportion to the subjects that the student has previously studied and equated with the academic units taught in the institution from which he is transferred. The academic units required of these students are calculated by equating the subjects and academic units that he studied at that institution, where the student is required to complete the units that he did not study and is exempted from the subjects that he studied previously.

13- The most important sources of information about the program

- The website of the college and university.
- University requirements.
- Local scientific trends.
- Global scientific requirements.

14- Program development plan

the country.
נוופ נו

☐ Participation in scientific workshops and seminars inside and outside the country.

☐ Twinning with international universities.

☐ Scientific trips.

Universities today face increasing challenges in keeping pace with rapid developments in the field of computer science. Therefore, it is necessary to review and develop study programs periodically to ensure that students obtain the skills and knowledge necessary to succeed in the labor market.

Steps to develop the study program:

To develop the study program for the Computer Science Department, the following steps must be followed:

	Evaluation of the current program:
	Data collection: Data should be collected about the current program, including the opinions of students, faculty members, and department graduates. Data Analysis: The data collected must be analyzed to determine the
•	strengths and weaknesses of the current program.
	Determine development goals:
✓	General objectives: General objectives must be determined for program development, such as keeping up with developments in the field of computer science or improving the skills of department graduates.
✓	Specific goals: Specific goals must be determined for developing the program, such as adding new materials, modifying the content of existing materials, or improving teaching methods.
	Curriculum development:
✓	Review the content of the materials: The content of the current materials must be reviewed to ensure their suitability to the needs of the labor market. Adding new materials: New materials must be added that cover the rapid developments in the field of computer science. Modifying teaching methods: Teaching methods must be modified to use modern methods that help students learn better.
	Faculty development:
✓	Providing training opportunities: Faculty members must be provided with

- opportunities to train on the latest technologies and teaching methods.
- ✓ Encouraging scientific research: Faculty members must be encouraged to conduct scientific research and publish their research in scientific journals.
- ✓ Supporting participation in conferences and workshops: Faculty members' participation in conferences and workshops must be supported to keep pace with the latest developments in the field of computer science.

Curriculum skills chart Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation required from the programme Learning outcomes General and qualifying transferable skills (objectives Skills Cognitive Emotional and Basic Year other skills related the of Course value goals objectives Course Name to employability programme Code Or optional /level and personal development(D3 D2 **D**1 **C**1 **B4 D4 C4 C3** C2**B3 B2** В **A4 A3 A2 A1** Basic Structured first The

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0	0	0	0	•	•	•	•	0	•	•	•	0	•	•	•	Basic	English	
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]	Artificial	Basic	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
]	Computer	Basic	•	•	•	•	•	•	•	0	•	•	•	•	•	•	•	•
]	Software	Basic	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
]	Counseling	Basic	•	•	•	•	•	•	•	0	•	•	•	•	•	•	•	•
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Tourui	Design Web	choice my	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
]	Measurement	Basic	•	•	•	•	•	•	•	0	•	•	•	0	•	0	0	0
]	research	Basic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<u>] </u>	Practical	Basic	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

• Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation.

Course Description Form

1. Course Name:									
Structured Programming									
2. Course Code:									
3. Semester / Year:									
Annual									
4. Description Preparation Date:									
2025-2024									
5. Available Attendance Forms:									
Actu	Actual presence								
6. Number of Credit Hours (Total) / N	umber of Units (Total):								
4 hours p	er week / 6 units								
7. Course administrator's name (ment	ion all, if more than one name)								
Name: Dr. Zaid Ameen Abdujabbar Email: zaid.ameen@uobasrah.edu.iq									
8. Course Objectives									
Course Objectives	• Study the principles of algorithms, flowcharts, and how to								

solve the problem.

- Learn programming concepts including program structure, data types, arithmetic expression, logical expression, statement, and functions.
- the principles Learn and functions, concepts of onedimensional and multidimensional time arrays, complexity algorithm (best, average, worst), matrix search algorithm (sequential algorithm and bubble sort algorithm), arrays and pointers, and structure.

9. Teaching and Learning Strategies

Strategy
Discussion
Teamwork

- Providing the student with basic and secondary topics related to algorithms and flow charts
- Finding solutions to mathematical, numerical and applied problems and converting them into computer programs
- Requiring the student to study computer programs related to theoretical vocabulary

10. Course Structure

Waak	Иолия	Required	Unit or subject	Learning	Evaluation	
week	Veek Hours Learning Outcomes	name	method	method		

T		The state of the s	Т	1	
1	2	Learn algorithms and flowcharts	Algorithms and Flowcharts	Lectures and Lab	Exams
2	2	Learn algorithms and flowcharts	Algorithms and Flowcharts	Lectures and Lab	Exams
3	2	Learn the basics of programming in C++	The Basics in C++ programming & Program style	Lectures and Lab	Exams
4	2	Learn data types and statements for input and output	Data type and Input & Output Statements	Lectures and Lab	Exams
5	2	Teaching the statement of assignment and arithmetic and logical expression	Assignment statements and Expressions: Arithmetic & Boolean Logical operator.	Lectures and Lab	Exams
6	2	Teaching the statement of assignment and arithmetic and logical expression	Assignment statements and Expressions: Arithmetic & Boolean Logical operator.	Lectures and Lab	Exams
7	2	Learn control statements	Control structures (Selection). IF Statement	Lectures and Lab	Exams
8	2	Teaching the normal and nested control statement	Control structures (Selection). IF –else, and nested -if Statement	Lectures and Lab	Exams
9	2	Learn the normal and nested control statement	Control structures (Selection). IF –else, and nested -if Statement	Lectures and Lab	Exams
10	2	Learn the control	Control	Lectures	Exams

		statement with selection	structures (Selection). Switch case Statement	and Lab	
11	2	Learn loop statements	Designing a loop (for, while, do while).	Lectures and Lab	Exams
12	2	Learn loop statements	Designing a loop (for, while, do while).	Lectures and Lab	Exams
13	2	Learn loop statements	Designing a loop (for, while, do while).	Lectures and Lab	Exams
14	2	Learn functions and procedure approaches	Predefined functions (function, Procedure, User defined function, Scopes of variables)	Lectures and Lab	Exams
15	2	Learn functions and procedure approaches	Predefined functions (function, Procedure, User defined function, Scopes of variables)	Lectures and Lab	Exams
16	2	Learn to send parameters via functions	Function (Passing arrays to functions, Calling functions)	Lectures and Lab	Exams
17	2	Learn to send parameters via functions	Function (Passing arrays to functions, Calling functions)	Lectures and Lab	Exams
18	2	Learn to program one-dimensional arrays	One Dimensional Arrays	Lectures and Lab	Exams
19	2	Learn to program search	Applications in arrays: search	Lectures and Lab	Exams

		and sort	and sort			
		operations within	anu sui t			
		arrays				
		Learn to	A12 42 · · ·			
20	2	program search and sort	Applications in	Lectures	Exams	
20	2	operations within	arrays: search and sort	and Lab	Exams	
		arrays	and sort			
		Learn to	Introduction to 2-			
21	2	program two-	Dimensional	Lectures	Exams	
41		dimensional	arrays	and Lab	LAGIIIS	
		arrays	ullujs			
		Learn to	Applications of 2-	T a -4		
22	2	program two- dimensional	Dimensional	Lectures and Lab	Exams	
		arrays	arrays	anu Lav		
		Learn to				
22	•	program two-	Applications of 2-	Lectures	T	
23	2	dimensional	Dimensional	and Lab	Exams	
		arrays	arrays			
			D • •			
24	2	Learn to declare	Pointers:	Lectures	Ewo-s	
24		and program pointers	declaration and operations	and Lab	Exams	
		pomers	operations			
25	2	Learn 1D arrays	1-D Arrays and	Lectures	Exams	
43	4	with pointers	Pointers.	and Lab	L'Adilis	
26	2	Learn 2D arrays	2D-Arrayes and	Lectures	Exams	
	_	with pointers	pointers	and Lab		
			Structure:			
27	2	Learn to define	Declaring and Defining a	Lectures	Exams	
		structures	structure	and Lab	L'Adilis	
			variable.			
		Learn to				
28	2	program	Applications of	Lectures	Exams	
	_	structure	structures	and Lab	12Aams	
		applications	A 3	Loot		
29	2	Learn matrices with structures	Array and Structure	Lectures and Lab	Exams	
		Learn matrices	Array and	Lectures		
30	2	with structures	Structure	and Lab	Exams	
		with structures	Buaciare	anu Lav		

11. Course Evaluation

Score distribution:

Annual pursuit 50% (25 marks for theoretical exams, 15 marks for the activity and Lab exam, and 10 marks for daily exams and reports on solving programming problems)

Final exam 50% (15 marks for the final Lab exam and 35 marks for the final theoretical exam)

12.Learning and Teaching Resources						
Required textbooks (curricular books, if any)	Text Book: Structured Programming with C++, Kjell Backman, BookBoon, 2012					
Main references (sources)	References: A Tour of C++, BJARNE OUSTRUP, by Pearson Education, Inc., 2014					
Recommended books and references (scientific journals, reports)	References: A Tour of C++, BJARNE TROUSTRUP, by Pearson Education, Inc., 2014					
Electronic References, Websites	/https://www.w3schools.com/cpp					

1. Course Name:				
	Logic Design			
2. Course Code	g••			
3. Semester / Y	ear:			
	Annual			
4. Description	Preparation Date:			
	2025-2024			
5. Available At	tendance Forms:			
	Actual presence			
6. Number of Credit Hours (Total) / Number of Units (Total):				
	4 hours per week / 6 units			
7. Course adm	inistrator's name (mention all, if more than one name)			
	Name: Mohammed Salah Hashim Email: moh.salah@uobasrah.edu.iq			
8. Course Obje	ectives			
Course Objectives	This course aims to give the student a broad understanding of Logic Design and the fields of using digital circuits in designing systems such as digital computers, digital communication equipment, and many other applications that require electronic digital equipment. The student is also introduced to the concept of digital and binary systems and Boolean algebra functions. The course also includes the			

design and analyze of combinational and sequential logical circuits. Reinforce theory and techniques taught in the classroom through experiments and projects in the laboratory. The course can provide the student with the following parameters:

- 1. Giving the student a balanced coverage of logical design.
- 2. Combinational logic circuit design.

9. Teaching and Learning Strategies

- Educational strategy, collaborative concept planning.
- Brainstorming education strategy.
- Education Strategy Notes Series
- Applying the theoretical aspect in practical laboratories by carrying out some

Strategy

- important scientific experiments that consolidate the information given in the
- Theoretical aspect.
- Using lectures by speaking to students and using Power Point slides and the blackboard

10.Course Structure

Wee k	Hours	Required Learning Outcomes	Unit or subject name	Learnin g method	Evaluation method
1	2	The student knows what logical design is and what digital systems are	Introduction to logic design and Digital Systems	1- Present ing the theoret ical	✓ Homework assignments ✓ Daily exams ✓ Reports ✓ Monthly

2	2	The student should know numerical systems	Number Systems	materi al, whethe	exams ✓ Mid-term exam
3	2	The student should be able to perform mathematical operations on the binary system	Binary Arithmetic	r throug h dialogu e or	√ final exam
4	2	The student should know how to convert from one numerical system to another	Number-base Conversions	display ing it on a display screen.	
5	2	The student knows how to find the first complement and the second complement of a binary number	Complement s	Applyi ng the theoret ical materi	
6	2	The student knows how to represent and deal with negative numbers	Signed Binary Numbers	al to the calcula tor.	
7	2	The student should know the types of binary codes and how to convert to them.	Binary Codes	3- Assign ments and exercis	
8	2	The student should know how a binary number is stored in memory and how processing operations are performed on it	Binary Storage and Registers	es. 4- Theore tical and practic al	
9	2	The student knows what logic gates are and the truth table for each logic gate	Binary Logic	lecture s weekly. 5-	

10	2	The student knows what Boolean algebra is and what its applications.	Introduction to Boolean algebra and logic gates	There is a discuss ion lesson and solving exercis es 6- Assigni ng the student to prepar e periodi c reports	
11	2	The student should know the basic rules and laws of Boolean algebra	Basic Theorem s and Properti es of Boolean Algebra		
12	2	The student knows what logical functions are	Boolean Functions		
13	2	Getting to know Minterms and Maxterms as well as getting to know Standard Forms	Canonical and Standar d Forms		

14	2	Extended knowledge about logic gates, truth tables, their applications, and how to apply them practically.	Digital Logic Gates	
15	2	Learn about the concept of integrated circuit, its types, and its advantages	Integrated Circuits	
18-16	6	1- Learn to use the Karnaugh Map to simplify logical functions for two, three, or four variables 2- Identify the concept of DON'T CARE CONDITIONS and its usefulness in the process of simplifying logical functions	Karnaugh map	
20-19	4	Learn how to convert any digital circuit consisting of an OR/and gate into a digital circuit containing NAND or NOR gates.	NAND and NOR Implementati on	
22-21	4	Learn about combinational circuits and the concepts of analysis and design	Introduction to combinationa l logic	

23	2	Learn how to perform the addition process using Half Adder and Full Adder	Half Adder and Full adder	
24	2	Learn about the mechanism of performing the subtraction process using Full adder	Binary Subtractor	
25	2	Learn how to perform multiplication using a combinational circuit	Binary Multiplier	
26	2	Learn how to design a combinational circuit that compares two numbers	Magnitude Comparator	
27	2	Get to know Decoders and what their most important applications.	Decoders	
28	2	Learn about the basic concepts of Encoders and how to design them	Encoders	

function

11.Course Evaluation

The subject's grade is (100) distributed over the following aspects:

• Midterm exam: 20%

• Daily exams: 10%

• **Report:** 5%

• Lab exam: 15%

• Final lab exam: 15%

• Final exam: 35%

• Total score: 100%

12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	Fundamentals of Logic Design, Sixth Edition Charles H. Roth, Jr. and Larry L. Kinney, 2010.
Main references (sources)	Digital design system, Ramaswary P.,ventus publishing,2011.
Recommended books and references (scientific journals, reports)	
Electronic References, Websites	

1. Course Name			
Computer Techniqu	es and Organization		
2. Course Code:			
3. Semester / Year:			
Ann	nual		
4. Description Preparation Date:			
2025-	2024		
5. Available Attendance Forms:			
Actua	al presence		
6. Number of Credit Hours (Total) / No	umber of Units (Total):		
4 hours pe	er week / 6 units		
7. Course administrator's name (mention all, if more than one name)			
_	slim Jasim Mohammed sim@uobasrah.edu.iq		
8. Course Objectives			
Course Objectives	To highlight the major topics student computer study as introductory course. Students engaged to learn basic knowled required to develop their sk		

showing their eligibility to perce advanced steps of their educati progress and to continue. The course merges and integrates is different fields of the futulation that materials in advance, covers the knowledge needed from the very theoretical to the practical and applicable tools they invoke get along their interests computer learning sessions.

9. Teaching and Learning Strategies

Strategy

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
Week 1	4	Computer machine history and generations Computer system components1: hardware, software (OS., application ,data), user, programmer	Parts of commercial computer	lecture	exam

		omputer organization and rehitecture 1: Input unit, itput unit, Input Devices: keyboard, touchscreen, mouse, Output devices: Printers, monitors			
Week 2	4	Computer organization and architecture 2: CPU (control & ALU), memory unit (primary storage: RAM, ROM, Cache & secondary storage: HD, SD, CD/DVD) Computer organization and architecture 3: motherboard, buses, ports, connectors, interface & adapters, Data transmission & networking	Parts of commercial computer	lecture	exam
Week 3	4	Computer Software: Operating systems, applications, language compilers & interpreters	Operating systems: Dos	lecture	exam

		Operating system: booting, simple operating structure, layered structure Operating system: Dos			
Week 4	4	Operating system: Windows	Operating systems: Windows	lecture	exam
Week 5	4			lecture	exam
Week 6	4	Operating system: Linux	Operating systems: Linux	lecture	exam
Week 7	4	Computer software: MS- Word	MS-Word	lecture	exam
Week 8	4			lecture	exam
Week 9	4	Computer software: MS-Excel	MS-Excel	lecture	exam
Week 10	4			lecture	exam
Week 11	4	Computer software: MS- PowerPoint	MS- PowerPoint	lecture	exam

Week 12	4			lecture	exam
Week 13	4	Computer software: MS- Access	MS-Access	lecture	exam
Week 14	4	Software and hardware installation		lecture	exam
Week 15	4	Computer multimedia		lecture	exam
Week 17	4	Social media		lecture	exam
Week 18	4	Electronic mail		lecture	exam
Week 19	4	Introduction to computer networks		lecture	exam
Week 20	4	Web content		lecture	exam
Week 21	4	Search engines		lecture	exam
Week 22	4	Internet fundamentals		lecture	exam
Week 23	4	Internet security		lecture	exam

4	Computer ethics and safety	lecture	exam
4	Programming fundamentals: Sequencing, Selection, Repetition	lecture	exam
4	Structural programming	lecture	exam
4	Object oriented programming	lecture	exam
	4	Programming fundamentals: Sequencing, Selection, Repetition Structural programming Object oriented	Programming fundamentals: Sequencing, Selection, Repetition Structural programming Object oriented lecture

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)	 Windows 10 Step by Step, Second Edition, Joan Lambert, 2018 Microsoft office 2019 for Dummies, Wallace Wang,2018 A+ Certification Bible. 2009 Ubuntu الدليل العملي في استخدام

	5. concepts of programming languages الوسائط المتعددة الرقمية 1. Digital Multimedia مهارات الحاسوب المتقدمة مهارات الحاسوب المتقدمة
Recommended books and references (scientific journals, reports)	 Windows 10 Step by Step, Second Edition, Joan Lambert, 2018 Microsoft office 2019 for Dummies, Wallace Wang,2018 A+ Certification Bible. 2009 Ubuntu الدليل العملي في استخدام الدليل العملي أي استخدام foncepts of programming languages الوسائط المتعددة الرقمية Digital Multimedia مهارات الحاسوب المتقدمة مهارات الحاسوب المتقدمة
Electronic References, Websites	

1. Course Name:				
Discrete Structure				
2. Course Code:				
3. Semester / Year:				
	Annual			
4. Description Preparation Date	te:			
	2025-2024			
5. Available Attendance Forms	s:			
_	Actual presence			
6. Number of Credit Hours (To	otal) / Number of Units (Total):			
4 hor	urs per week / 6 units			
7. Course administrator's nam	e (mention all, if more than one name)			
Name: Name: Rana Jassim Mohammed Email: rana.mohammed@uobasrah.edu.iq				
8. Course Objectives				
Course Objectives	Students should learn a particular set of mathematical facts and how to apply them; more importantly, such a course should teach students how to think logically and			

mathem	atically.
	_

9. Teaching and Learning Strategies

Strategy

Providing the student with primary and secondary topics related to logic, understanding topics, and vocabulary The theory of methods of proof and identification of many concepts and theories that enable it Of understanding algorithms. The method of learning is through explanation in the classroom, examinations, and participation During the lecture, use of illustrations and many experiments to solve mathematical operations.

10.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1		Mathematical Logic Introduction ,Simple Logic Statement ,zVariable use in proposition statement, Compound Logic statement	Mathematical Logic		✓ Homework assignments ✓ Daily exams ✓ Reports ✓ Monthly exams ✓ Mid-term exam final exam
2		Logical proposition, Logical Equivalence ,Quantifiers	Logical		✓ Homework assignments

l	Com 31421	/D- "
	Conditional	✓ Daily exams
	statement &	
3	Variation,	
	Logical	
	Reasoning	
	Sets theory	✓ Reports
4	,Introduction,	
7	Methods of	
	Expressing Sets	
	Principle	Monthly exams
5	Concept sets,	
	Venn Diagrams	
	Algebra of sets,	✓ Homework
	Family of sets &	assignments
6	Index family of	
	sets	
	Order Pairs &	✓ Daily exams
7	Product sets,	
	Boolean Algebra	
	Relations,	✓ Reports
8	Introduction,	Reports
0	Binary relation	
	Graph of	Monthly exams
		Within Exams
9	relation,	
9	Photographer	
	representation	
	of relation	/**
	The Domain &	✓ Homework
	Range of	assignments
10	relation,	
	Identity	
	Relation &	
	Inverse relation	
	Composition	✓ Daily exams
11	relation, Type of	
	relation	
	Equivalence	✓ Reports
12	relation,	
14	Function,	
	Introduction	
	Principle	Monthly exams
13	Concept &	
	Concept &	

	Definition,	
	Model of	
	function	
	Composition	√Homework
4.4	function,	assignments
14	Algebra of	
	function	
	Draw graphs	✓ Daily exams
	function,	
1.5	Discussion	
15	function	
	through the	
	planning equity	
	عطلة نصف السنة	✓ Reports
	Graph theory,	Monthly exams
	Introduction,	ľ
1.0	Principle	
16	concept, Type of	
	graphs,	
	Definition	
	Example of	✓Homework
17	graph, Graph	assignments
	and matrices	
18	Finite automata	✓ Daily exams
	The	✓ Reports
	Mathematical	1
	System and the	
19	Graphs,	
	Introduction,	
	Principle	
	concept	
	Mathematical	Monthly exams
20	system, Groups,	
	Cossets	
	Normal	✓ Homework
21	subgroups,	assignments
	Quotient group	
22	Homomorphism	✓ Daily exams
44	, Rings, Fields	
23	Vectors and	✓ Reports
43	matrices,	

	Introduction	
24	Vectors, Matrices, Models of	Monthly exams
25	square matrices Algebra in the matrices, Determination	✓ Homework assignments
26	Minors & Cofactors, Solving system of liner equation using the non- homogeneous, Grammar rule	✓ Daily exams
27	, Solving system of liner equation using the non- homogeneous, Grammar rule	✓ Reports
28	Principle concept	Monthly exams
29	Graph theory , Introduction, Principle concept	✓ Homework assignments
30	Type of graphs, Definition	✓ Daily exams
11.Cou	ırse Evaluation	
Term T	s : 10% Tests: 40% Exam: 50%	
12.Lea	rning and Teaching Resources	

Rosen, Kenneth. Discrete Mathematics

and Its Applications 7th edition.

Required textbooks (curricular

Main references (sources)

books, if any)

	McGraw-Hill Science, 2011.
Recommended books and	Todd Feil, Joan Krone, ''Essential
references (scientific	Discrete Mathematics", Prentice
journals, reports)	Hall, 2003.
Electronic References, Websites	

1. Course Name:
Foundations of education
2. Course Code:
3. Semester / Year:
Annual
4. Description Preparation Date:
2025-2024
5. Available Attendance Forms:
Actual presence
6. Number of Credit Hours (Total) / Number of Units (Total):
2 hours per week / 4 units
7. Course administrator's name (mention all, if more than one name)
Name: noor kate abbas Email: noor.k.abbas@uobasrah.edu.iq
8. Course Objectives
Course Objectives Course Objectives
9. Teaching and Learning Strategies
Strategy

10	.Course	Structure			
Wee k	Hours	Required Learning Outcomes	Unit or subject name	Learnin g method	Evaluation method
1	2	What We Measure: This phrase likely refers to the various aspects or outcomes that are assessed in education. It could encompass measuring student learning, teacher effectiveness, school performance, or the overall impact of educational systems.	Basic Concepts in Education		✓ Homework assignments ✓ Daily exams ✓ Reports ✓ Monthly exams
2	2	This section would delve into the fundamental concept of education, exploring its purpose, goals, and essence. It might discuss the role of education in shaping individuals, societies, and civilizations.	Definition of Education		Homework assignments
3	2	: This segment would categorize	Types of Education		Daily exams

		and1-2 41			
		and explain the			
		different forms of			
		education, such as			
		formal education			
		(schools,			
		universities),			
		informal education			
		(lifelong learning,			
		community			
		programs), and			
		non-formal			
		education			
		(vocational			
		training,			
		apprenticeships).			
		: This section might			
		explore the various			
		methodologies and			
		approaches used in			
		education, such as			
4		traditional	Forms of	Don	onta
4	2	instruction,	Education	Rep	orts
		constructivist			
		learning, inquiry-			
		based learning, and			
		experiential			
		learning.			
		: This segment			
		would trace the			
		historical evolution			
		of education,			
_		examining its	Eras of	Mon	thly
5	2	development	Education	exa	•
		through different			
		eras, such as			
		ancient			
		civilizations,			
		CI VIIIZUUUII9			

		3: 1 4:			
		medieval times,			
		Renaissance, and			
		modern periods.			
		This section would			
		investigate the			
		interplay between			
		education and the			
		surrounding	Education and		
		environment,	Its	T.	[
6	2	including the	Relationship to		lomework
		influence of social,	the	as	ssignments
		cultural, and	Environment:		
		economic factors on			
		educational			
		practices and			
		outcomes.			
		: This segment			
		would explore the			
		diverse forms of			
		education prevalent			
		in contemporary	Types of		
7	2	society, such as	Modern	D	aily exams
'	2	inclusive education,	Education		any camis
		special education,	Education		
		_ ·			
		online education, and blended			
		learning.			
		: This indicates an			
		assessment or			
		evaluation			
		conducted midway	_		-
8	2	through a course or	Midterm Exam		Reports
		academic term to			
		measure student			
		progress and			
		understanding.			
9	2	This section would	Spartan		Monthly
•	•			1	

		delve into the educational system and practices of ancient Sparta, focusing on its emphasis on physical fitness, military training, and obedience.	Education:	exams
10	2	: This segment would explore the educational practices and experiences of girls in ancient Israelite society, considering their access to education, societal expectations, and prevailing gender roles.	Education of Girls Among the Israelites	Homework assignments
11	2	: This section would examine the educational system and ideals of ancient Athens, highlighting its focus on intellectual pursuits, civic engagement, and the development of well-rounded individuals.	Athenian Education	Daily exams

12	2	: This segment would explore the educational practices and institutions in ancient Mesopotamia, including the role of scribes, schools, and religious teachings.	Education in Mesopotamia	Reports
13	2	This section would delve into the structure and organization of the educational system in ancient Mesopotamia, examining its curriculum, teaching methods, and societal goals.	Education System in Mesopotamia:	Monthly exams
14	2	: This segment would explore the educational system and philosophies of ancient China, emphasizing its emphasis on Confucian values, moral cultivation, and civil service preparation.	Ancient Chinese Education	Homework assignments

15	2	This section would examine the structure and organization of the educational system in ancient China, including its different levels, curriculum, and assessment methods.	Education System in Ancient China:	Daily exams
18-16	2	This segment would explore the educational practices and experiences of girls in ancient China, considering their access to education, societal expectations, and gender roles.	Education of Girls in China:	Reports
20-19	2	: This section would delve into the educational system and practices of ancient Sparta, focusing on its emphasis on physical fitness, military training, and obedience.	Education System among the Spartans	Monthly exams

22-21	2	: This segment would explore the various methodologies and approaches used to research and study the history of education, including archival research, comparative studies, and oral histories.	Research Methods in History of Education	Homework assignments
23	2	This section would examine the characteristics, trends, and challenges of education in the modern era, considering the influence of technology, globalization, and changing societal needs.	Modern Education:	Daily exams
24	2	This segment would explore the educational practices and systems prevalent in ancient civilizations, such as Mesopotamia, Egypt, Greece, and Rome.	Education in Ancient Times:	Reports

25	2	: This section would examine the educational landscape during the medieval period, including the role of monasteries, universities, and guilds in disseminating knowledge and shaping educational practices.	Education in the Middle Ages	Monthly exams
26	2	: This segment would explore the educational principles, practices, and institutions associated with Christianity, emphasizing its focus on religious instruction, moral development, and character formation.	Christian Education	Homework assignments
27	2	: This section would delve into the educational system and philosophies of Islam, highlighting	Islamic Education	Daily exams

		its emphasis on Quranic studies, Islamic law, and the pursuit of knowledge.		
28	2	: This segment would explore the various educational institutions established in Islamic societies, such as madrasas, mosques, and libraries, and their role in preserving and transmitting knowledge.	Educational Institutions in Islam	Reports
29	2	: This section would examine the core principles and values that underpin Islamic education, emphasizing the importance of faith, knowledge, character, and social responsibility.	Principles of Islamic Education	Monthly exams
29	2	: This segment would explore the historical roots and influences that have shaped educational practices and philosophies	Historical Foundations of Education	Homework assignments

		throughout time, including philosophical, religious, and social movements.		
30	2	This section would examine the social,	Social Foundations of Education:	Daily exams

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)	Book: Foundations of Education	
Main references (sources)	Foundations of Modern and	
	Contemporary Education	
Recommended books and	Academic Journals, Periodicals, Research,	
references (scientific journals,	and Studies in the Field of Specialization:	
reports)	This segment highlights the importance of	
	staying informed about current research	
	and developments in the field of education.	
	It emphasizes the value of utilizing academic	

	journals, periodicals, and scholarly research
	to inform one's teaching practices and
	professional development.
Electronic References,	Various Communication Platforms (Google,
Websites	YouTube, etc.): This phrase acknowledges
	the role of technology and online resources
	in accessing information, connecting with
	colleagues, and engaging in professional
	learning. It encourages educators to utilize
	various platforms like Google, YouTube,
	and educational websites to enhance their
	knowledge and skills.

1. Course Name:	1. Course Name:			
Educational psychology				
2. Course Code:				
3. Semester / Year:				
An	nual			
4. Description Preparation Date:				
2025-2024				
5. Available Attendance Forms:				
Acti	ual presence			
6. Number of Credit Hours (Total) / Number of Units (Total):				
2 hours per week / 4 units				
7. Course administrator's name (mention all, if more than one name)				
Name: Ashwaq Jabbar Hammoud Email: :ashwaq.jabar@uobasrah.edu.iq				
8. Course Objectives				
Course Objectives	• The educational psychology course aims to gain theoretical knowledge			

to explain human behavior through studying psychological theories and their opinions explaining in individual behavior in educational situations, developing students' cognitive abilities well as developing them in the physical, social and emotional aspects in the various stages of development.

9. Teaching and Learning Strategies

Strategy
Discussion
Teamwork

- 1- Explaining the scientific material in detail and accurately during the lecture
- 2- Writing reports on main topics
- 3- Open discussions

10.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	-Cognitive objectives -I understand behavior B- Predicting behavior. Prediction is the next stage	Educational psychology	The lecturer gives detailed theoretical lectures	Assign grades to the homework assignments and reports assigned to them

		of understanding behavior C- Controlling human behavior			Weekly, monthly, daily exams and the end of the year exam.
2	2	-Cognitive objectives -I understand behavior B- Predicting behavior. Prediction is the next stage of understanding behavior C- Controlling human behavior	Introduction to psychology	The lecturer gives detailed theoretical lectures	Assign grades to the homework assignments and reports assigned to them
3	2	-Cognitive objectives -I understand behavior B- Predicting behavior.	Introduction to psychology	The lecturer gives detailed theoretical lectures	Weekly, monthly, daily exams and the end of the year exam.

		Prediction is the next stage of understanding behavior C- Controlling human behavior			
4	2	-Cognitive objectives -I understand behavior B- Predicting behavior. Prediction is the next stage of understanding behavior C- Controlling human behavior	Descriptive method and experimental method	The lecturer gives detailed theoretical lectures	Assign grades to the homework assignments and reports assigned to them
5	2	-Cognitive objectives -I understand behavior	Sosometric measurement and the clinical approach	The lecturer gives detailed	Weekly, monthly, daily exams and the end

		B- Predicting		theoretical	of the year
		behavior.		lectures	exam.
		Prediction is			
		the next stage			
		of			
		understanding			
		behavior			
		<i>C</i> -			
		Controlling			
		human			
		behavior			
		-Cognitive			
		objectives			
		-I understand			
		behavior			
		B- Predicting		/DI	Assign
		behavior.		The	grades to
		Prediction is	Sample,	lecturer	the
6	2	the next stage	psychological	gives	homework
		of	research	detailed	assignments
		understanding		theoretical	and reports
		behavior		lectures	assigned to
		<i>C</i> -			them
		Controlling			
		human			
		behavior			
7	•	-Cognitive	tools, and	The	Weekly,
7	2	objectives	characteristics	lecturer	monthly,

		-I understand	of scales	gives	daily exams
		behavior		detailed	and the end
		B- Predicting		theoretical	of the year
		behavior.		lectures	exam.
		Prediction is			
		the next stage			
		of			
		understanding			
		behavior			
		C-			
		Controlling			
		human			
		behavior			
		-Cognitive			
		objectives			
		-I understand			
		behavior			Aggiore
		B- Predicting		The	Assign
		behavior.			grades to the
		Prediction is	Overtionnaine	lecturer	homework
8	2	the next stage	Questionnaire and interview	gives detailed	
		of	ana interview		assignments
		understanding		theoretical	and reports
		behavior		lectures	assigned to them
		<i>C</i> -			inem
		Controlling			
		human			
		behavior			

9	2	-Cognitive objectives -I understand behavior B- Predicting behavior. Prediction is the next stage of understanding behavior C- Controlling human behavior	Standards, tests, observation	The lecturer gives detailed theoretical lectures	Weekly, monthly, daily exams and the end of the year exam.
10	2	-Cognitive objectives -I understand behavior B- Predicting behavior. Prediction is the next stage of understanding behavior C- Controlling	Structural, functional, and connectionist school	The lecturer gives detailed theoretical lectures	Assign grades to the homework assignments and reports assigned to them

11	2	human behavior -Cognitive objectives -I understand behavior B- Predicting behavior. Prediction is the next stage of understanding behavior C- Controlling human behavior	Hypothesis, factor analysis, psychoanalysis, and Freudianism	The lecturer gives detailed theoretical lectures	Weekly, monthly, daily exams and the end of the year exam.
12	2	-Cognitive objectives -I understand behavior B- Predicting behavior. Prediction is the next stage of understanding behavior	Behaviorism, new behaviourism, gestalt, cognitive, humanism	The lecturer gives detailed theoretical lectures	Assign grades to the homework assignments and reports assigned to them

13	2	C- Controlling human behavior -Cognitive objectives -I understand behavior B- Predicting behavior. Prediction is the next stage of understanding behavior C- Controlling human behavior	Motivation: its definition, importance, and theories	The lecturer gives detailed theoretical lectures	Weekly, monthly, daily exams and the end of the year exam.
14	2	-Cognitive objectives -I understand behavior B- Predicting behavior. Prediction is the next stage of	Emotion, its definition, types, and theories	The lecturer gives detailed theoretical lectures	Assign grades to the homework assignments and reports assigned to them

15	2	understanding behavior C- Controlling human behavior -Cognitive objectives -I understand behavior B- Predicting behavior. Prediction is the next stage of understanding behavior C- Controlling human behavior	Definition of tendencies, their manifestations, interpretation, and measurement methods	The lecturer gives detailed theoretical lectures	Weekly, monthly, daily exams and the end of the year exam.
16	2	-Cognitive objectives -I understand behavior B- Predicting behavior. Prediction is	sentiment scales, Trends, their definition, components	The lecturer gives detailed theoretical lectures	Assign grades to the homework assignments and reports assigned to

		the next stage of understanding behavior C- Controlling human behavior			them
17	2	-Cognitive objectives -I understand behavior B- Predicting behavior. Prediction is the next stage of understanding behavior C- Controlling human behavior	characteristics, methods of measuring them, and methods of their change	The lecturer gives detailed theoretical lectures	Weekly, monthly, daily exams and the end of the year exam.
18	2	-Cognitive objectives -I understand behavior B- Predicting	White classification	The lecturer gives detailed theoretical	Assign grades to the homework assignments

		behavior.		lectures	and reports
		Prediction is			assigned to
		the next stage			them
		of			
		understanding			
		behavior			
		C-			
		Controlling			
		human			
		behavior			
		-Cognitive			
		objectives			
		-I understand			
		behavior			
		B- Predicting			
		behavior.		The	Weekly,
		Prediction is	To define	lecturer	monthly,
19	2	the next stage	inclinations,	gives	daily exams
		of	trends, and	detailed	and the end
		understanding	values	theoretical	of the year
		behavior		lectures	exam.
		C-			
		Controlling			
		human			
		behavior			
		-Cognitive	Definition of	The	Assign
20	2	objectives	intelligence,	lecturer	grades to
		-I understand	theories of	gives	the

		behavior	intelligence,	detailed	homework
		B- Predicting	methods of	theoretical	assignments
		behavior.	research into	lectures	and reports
		Prediction is	intelligence,		assigned to
		the next stage	types of		them
		of	intelligence		
		understanding	tests		
		behavior			
		C-			
		Controlling			
		human			
		behavior			
		-Cognitive objectives			
		-I understand behavior B- Predicting			
21	2	behavior. Prediction is the next stage of understanding behavior C- Controlling human	Mental abilities: attention and perception	The lecturer gives detailed theoretical lectures	Weekly, monthly, daily exams and the end of the year exam.
22	2	behavior -Cognitive	Mental	The	Assign

		objectives	abilities:	lecturer	grades to
		-I understand	memory and	gives	the
		behavior	thinking	detailed	homework
		B- Predicting		theoretical	assignments
		behavior.		lectures	and reports
		Prediction is			assigned to
		the next stage			them
		of			
		understanding			
		behavior			
		<i>C</i> -			
		Controlling			
		human			
		behavior			
		-Cognitive			
		objectives			
		-I understand			
		behavior			
		B- Predicting		The	Weekly,
		behavior.		lecturer	monthly,
22		Prediction is	Learning	gives	daily exams
23	2	the next stage	theories	detailed	and the end
		of		theoretical	of the year
		understanding		lectures	exam.
		behavior			
		C-			
		Controlling			
		human			

		behavior			
24	2	-Cognitive objectives -I understand behavior B- Predicting behavior. Prediction is the next stage of understanding behavior C- Controlling human behavior	self education	The lecturer gives detailed theoretical lectures	Assign grades to the homework assignments and reports assigned to them
25	2	-Cognitive objectives -I understand behavior B- Predicting behavior. Prediction is the next stage of understanding behavior C-	The term personality, its importance, dimensions, and theories	The lecturer gives detailed theoretical lectures	Weekly, monthly, daily exams and the end of the year exam.

		Controlling			
		human			
		behavior			
		-Cognitive			
		objectives			
		-I understand			
		behavior			A gaine
		B- Predicting		The	Assign
		behavior.	Compatibility		grades to
		Prediction is	indicators and	lecturer gives detailed theoretical lectures	the homework
26	2	the next stage	the importance		
		of	of mental health		assignments
		understanding			and reports
		behavior			assigned to
		<i>C</i> -			them
		Controlling			
		human			
		behavior			
		-Cognitive			
		objectives			
		-I understand	The most	The	Weekly,
		behavior		lecturer	monthly,
27	•	B- Predicting	important	gives	daily exams
27	2	behavior.	problems of	detailed	and the end
		Prediction is	youth and	theoretical	of the year
		the next stage	adolescents	lectures	exam.
		of			
		understanding			

28	2	behavior C- Controlling human behavior -Cognitive objectives -I understand behavior B- Predicting behavior. Prediction is the next stage of understanding behavior C- Controlling human behavior	Compatibility indicators and the importance of mental health	The lecturer gives detailed theoretical lectures	Assign grades to the homework assignments and reports assigned to them
29	2	-Cognitive objectives -I understand behavior B- Predicting behavior. Prediction is the next stage	Compatibility indicators and the importance of mental health	The lecturer gives detailed theoretical lectures	Weekly, monthly, daily exams and the end of the year exam.

30	2	of understanding behavior C- Controlling human behavior -Cognitive objectives -I understand behavior B- Predicting behavior. Prediction is the next stage of understanding behavior C- Controlling human behavior	Compatibility indicators and the importance of mental health	The lecturer gives detailed theoretical lectures	Assign grades to the homework assignments and reports assigned to them Weekly, monthly, daily exams and the end of the year exam.
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11.Course Evaluation

Score distribution: Distribution of the score out of 100 according to the tasks assigned to the student, such as daily preparation, daily oral, monthly, or written .tests and reports...etc

12.Learning and Teaching Resources

Required textbooks (curricular books,	
if any)	
	General psychology book, Dr. Saleh Al-
Main references (sources)	Dahri, Dr. Wahib Al-Kubaisi
	Psychology, 0107, Robert Sessions and
Recommended books and references	Woodworth, translated by Abdul Hamid
(scientific journals, reports)	Kazem
Electronic References, Websites	- /product/com.aialibrary://https/category

1. Course Name:
Mathematical
2. Course Code:
3. Semester / Year:
Annual
4. Description Preparation Date:
2025-2024
5. Available Attendance Forms:
Actual presence
6. Number of Credit Hours (Total) / Number of Units (Total):
3 hours per week / 6 units
7. Course administrator's name (mention all, if more than one name)
Name: Msc. Zahraa Adnan Jameel
Email: zahraa.adnan@uobasrah.edu.iq
8. Course Objectives
• Introducing the student to the basic principles of calculus, which are include
in all fields of mathematics, and its applications are included in engineering
applications and all departments of science.
• Acquiring mental skills and thinking in mathematics.
• Introducing students to the importance of mathematics.
9. Teaching and Learning Strategies

Strategy			1-Cooperative education 2- Brainstorming education 3- Educational noteboo	ation strateg	
10.0	Course S	tructure	,	1	
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-3	6	Primary topics	Solving inequalities, algebra of functions, The domain and range of the function, absolute value function, Composite Function, inverse function, Some Specific Types of Functions (sign function, The greatest correct function, even and odd function, Rational function,	Theoreti	Exams

			polynomial,)		
			Trigonometric		
			functions,		
4-6	6	Transcend	some important	Theoreti	Exams
		ental	identities	cal	
		function	for trigonometric		
			functions, inverse of		
			the trigonometric		
			function, logarithmic		
			function, exponential		
			function		
			limits and how to		
7-9	6	limit	calculate the limit,	Theoreti	Exams
			One-sided limits,	cal	
			infinity limits, the		
			limit at infinity,		
			Limits Involving		
			Trigonometric		
			Functions		
10-	4	Continuity	Continuity	Theoreti	Exams
11				cal	
			Differentiation of		
12-	6	The	Derivative, Basic	Theoreti	Exams
14		Derivative	Derivative rules,	cal	
		S	implicit		
			differentiation, =		
			chain law		

			Differentiation of		
		Differentia	trigonometric	Theoreti	Exams
15-	6	tion	functions,	cal	
17		Of	differentiation of		
		trigonomet	inverse trigonometric		
		ric	functions,		
		functions	differentiation of		
			logarithmic and		
			exponential functions		
		Derivative	L'Hopital's rule,		
18-	6	applicatio	Rolle's theorem,	Theoreti	Exams
20		ns	Mean value theorem	cal	
			Definition of		
21-	6	Integral	indefinite	Theoreti	Exams
23			integral and its	cal	
			properties, definition		
			of definite		
			integral and its		
			properties		
24-	6	Inverses of	Integrals of inverse		
26		trigonomet	trigonometric	Theoreti	Exams
		ric	functions	cal	
		functions			
			Integration by parts,		
27-	8	Integratio	integration of powers	Theoreti	Exams
30		n	of trigonometric	cal	
		methods	functions,		

	trigonometric	
	substitution,	
	integration by partial	
	fractions, other	
	substitutions	

11.Course Evaluation

Distribution is as follows: 25 marks for monthly and daily exams for the first semester. 25 marks for monthly and daily exams for the second semester. 50 marks for final exams

12.Learning and Teaching Resources	
Required textbooks (curricular books, if	حسبان التفاضل والتكامل:
any)	تأليف د. صبري العاني وجماعته
	التفاضل والتكامل والهندسة التحليلية:
Main references (sources)	تأليف توماس (مترجم)
	حسبان التفاضل والتكامل: تأليف برسل
	(مترجم)
Recommended books and references	Calculus Early
(scientific journals, reports)	Transcendentals, 6e
	Science direct
Electronic References, Websites	springer link

1. Course Name:	
Democracy	and Human Rights
2. Course Code:	
3. Semester / Year:	
	Annual
4. Description Preparation Date:	
2	2025-2024
5. Available Attendance Forms:	
Act	tual presence
6. Number of Credit Hours (Total)	/ Number of Units (Total):
1 hour p	per week / 2 units
7. Course administrator's name (m	ention all, if more than one name)
	ne: Zainab Hamza Abbas .067@avicenna.uobasrah.edu.iq
8. Course Objectives	
Course Objectives Explaining human rights, their	 What are the necessary rights of the Asan and how are the heavenly laws

impact on humans in particular

and on society in general

- recommended for them?
- Explaining the most important rights
- guaranteed by Islam to humans.

• Human rights across ancient civilizations.....

9. Teaching and Learning Strategies

Strategy Dialogue and discussion

The learning strategy involves the students' participation with the teacher in presenting many questions

The rights and freedoms that are important to humans and discuss them directly with the students, and express their opinions about those rights and the extent of their importance to them.

10.Course Structure

Wee k	Ho urs	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Students discuss and express their opinions	The concept of human rights	Dialogue and discussio n	✓ Homework assignment s ✓ Daily exams ✓ Reports ✓ Monthly exams
2	1	Students discuss and express their opinions	Stages of human rights development	Dialogue and discussio n	✓ Homework assignments
3	1	Students discuss and express their opinions	The concept of human rights	Dialogue and discussio n	✓ Daily exams
4	1	Students discuss	Human rights in	Dialogue	✓ Reports

		and express their opinions	civilization Egyptian	and discussio n	
5	1	Students discuss and express their opinions	Human rights in civilization Greek and Roman	Dialogue and discussio n	✓ Monthly exams
6	1	Students discuss and express their opinions	Human rights in the Middle Ages	Dialogue and discussio n	✓ Homework assignments
7	1	Students discuss and express their opinions	Types of human rights	Dialogue and discussio n	✓ Daily exams
8	1	Students discuss and express their opinions	Characteristics and advantages of human rights	Dialogue and discussio n	✓ Reports
9	1	Students discuss and express their opinions	The most important rights guaranteed by Islam For human	Dialogue and discussio n	✓ Monthly exams
10	1	Students discuss and express their opinions	The message of rights by Imam Zain Al-Abidin (PBUH)	Dialogue and discussio n	✓ Homework assignments
11	1	Students discuss and express their opinions Students discuss and express their opinions	The most important rights mentioned by the Imam (peace be upon him)	Dialogue and discussio n	✓ Daily exams

12	1	Students discuss and express their opinions	Universal Declaration of Human Rights	Dialogue and discussio n	✓ Reports
13	1	Students discuss and express their opinions	Comparison between the rights message and the declaration Universal Human Rights	Dialogue and discussio n	✓ Monthly exams
14	1	Students discuss and express their opinions	Women's rights	Dialogue and discussio n	✓ Homework assignments
15	1	Students discuss and express their opinions	Child Rights	Dialogue and discussio n	✓ Daily exams
16	1	Students discuss and express their opinions	The concept of freedom	Dialogue and discussio n	✓ Reports
17	1	Students discuss and express their opinions	Stages of development of freedom	Dialogue and discussio n	✓ Monthly exams
18	1	Students discuss and express their opinions	Types of freedoms	Dialogue and discussio n	✓ Homework assignments
19	1	Students discuss and express their opinions	The Islamic concept of freedom	Dialogue and discussio n	✓ Daily exams

20	1	Students discuss and express their opinions	Manifestations of freedom	Dialogue and discussio n	✓ Reports
21	1	Students discuss and express their opinions	Effects of freedom	Dialogue and discussio n	✓ Monthly exams
22	1	Students discuss and express their opinions	Sources of freedoms	Dialogue and discussio n	✓ Homework assignments
23	1	Students discuss and express their opinions	Freedom through the Universal Declaration For human rights	Dialogue and discussio n	✓ Daily exams
24	1	Students discuss and express their opinions	Democracy	Dialogue and discussio n	✓ Reports
25	1	Students discuss and express their opinions	The Islamic concept of democracy	Dialogue and discussio n	✓ Monthly exams
26	1	Students discuss and express their opinions	Types of democracy	Dialogue and discussio n	✓ Homework assignments
27	1	Students discuss and express their opinions	Types and sections of the democratic system	Dialogue and discussio n	✓ Daily exams

28	1	Students discuss and express their opinions	Characteristics of a democratic system	Dialogue and discussio n	✓ Reports
29	1	Students discuss and express their opinions	Advantages of the democratic system	Dialogue and discussio n	✓ Monthly exams
30	1	Students discuss and express their opinions	Disadvantages of the democratic system	Dialogue and discussio n	✓ Homework assignments

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

o o	
Required textbooks (curricular books, if any)	Binding human rights + binding freedom and democracy
Main references (sources)	The Holy Qur'an - the Noble Prophet's Sunnah
Recommended books and	
references (scientific journals,	Hafez Alwan Al-Dulaimi, human rights
reports)	Message Center, Social Rights in Isla
Electronic References, Websites	Message Center, Social Rights in Islam

1. Course Name:				
	English Language			
2. Course Code:				
3. Semester / Year:				
	Annual			
4. Description Preparat	tion Date:			
	2025-2024			
5. Available Attendance	e Forms:			
	Actual presence			
6. Number of Credit He	ours (Total) / Number of Units (Total):			
	1 hour per week / 2 units			
7. Course administrator's name (mention all, if more than one name)				
	Name: Ahmed Kadhim Shanan nail: ahmed.shanan@uobasrah.edu.iq			
8. Course Objectives				
Course Objectives	• Enabling students to improve listening, speaking writing, and reading skills.			
233323 33,000,00	• Acquiring self-learning skills for the language			
9. Teaching and Learn	ing Strategies			

		Strategy	 Presentations Listen to video clips throug Adopting the method of of through translation of clips 	discussion	with stude
10.	Cours	se Structure			
W ee k	Hou rs	Required Learning Outcomes	Unit or subject name	Learning method	Evaluatio n method
1	1		Present Simple Tense: Exercises	Lectures	Exams

Present Continuous Tense:

Exercises

Present Perfect Tense: Exercises

Past Simple Tense: Exercises

Past Continuous Tense: Exercises

Past Perfect Tense: Exercises

Future Simple Tense: Part 1

Future Simple Tense: Part 2

Articles and nouns: (a/an and the)

Countable and

uncountable:Exercises

Singular and Plural Nouns: Part

2

3

4

5

6

7

8

9

10

1

1

1

1

1

1

1

1

1

Lectures

Exams

11	1	1	Lectures	Exams
12	1	Singular and Plural Nouns: Part 2	Lectures	Exams
13	1	Adjectives and adverbs – Exercises	Lectures	Exams
		Comparative 1, 2, 3: – Exercises	Lectures	Exams
14	1	Conjunction: Exercises	Lectures	Exams
15	1	Prepositions: Exercises	Lectures	Exams
16	1	Modals 1: Can – Could –	Lectures	Exams
17	1	Exercises	Lectures	Exams
18	1	Modals 2: Must – May – Exercises	Lectures	Exams
10	1	Modals 3: Have to –Would:	Lectures	Exams
19	1	Exercises	Lectures	Exams
20	1	Modals: if – wish: Part 4 – Exercises	Lectures	Exams
21	1	Questions: Part 1 – Exercises	Lectures	Exams
22	1	Questions: Part 2 – Exercises	Lectures	Exams
23	1	Questions: Part 3 – Exercises	Lectures	Exams
23	1	Auxiliary Verbs: Part 1 –	Lectures	Exams
24	1	Exercises	Lectures	Exams
25	1	Auxiliary Verbs: Part 2 –	Lectures	Exams
		Exercises		
26	1	Relative Clauses 1 Exercises		
		•		

27	1	Relative	Relative Clauses 2 Exercises				
28	1	Relative	Relative Clauses 3 Exercises				
29	1	Pas	sive 1: Exercises				
30	1	Pas	ssive 2: Exercises				
1	1.Coi	urse Evaluation					
		he	omework				
		Mon	nthly exams				
		Mid-year an	d final-year exams				
1	2.Lea	rning and Teaching Resour	ces				
Reg	quired	textbooks (curricular books, if any)	 ENGLISH. GRAMMAR. IN USE. Fifth Edition. Raymond Murphy. Basic English Grammer By ANNE SEATON 				
	Мо	ain references (sources)	 Essential-English BY C.E. ECKERSLEY English Vocabulary in Use: Vocabulary Reference and Practice: with Answers 				
Recommended books and references (scientific journals, reports)							
	Electi	ronic References, Websites					

1. Course Name:					
Arabic Language					
2. Course Code:					
3. Semester / Year:					
	Annual				
4. Description Preparation Date:	•				
20	25-2024				
5. Available Attendance Forms:					
	Actual presence				
6. Number of Credit Hours (Tota	ul) / Number of Units (Total):				
1 hours per week / 2 units					
7. Course administrator's name	(mention all, if more than one name)				
= 7					
	ame: Ragaad Ahmed				
Email: ragadahmmad1996@gmail.com					
8. Course Objectives					
	The student should be able to use the				
Course Objectives	language correctly in writing and in				
	communicating with others.				

• Developing the student's literary to				
	that he understands the aesthetic aspects			
	of speech styles, meanings, and images.			

9. Teaching and Learning Strategies

Strategy

Dialogue strategy
Discussion strategy

10.Course Structure

W e e k	H o u rs	Required Learning Outcomes	Unit or subject name	Learning method	Evaluatio n method
1 2 3	1	Defining the noun, verb, and letter, and indicating the signs of each section It dealt with the linguistic aspect, the syntactic aspect, and the semantic aspect It dealt with the linguistic aspect, the syntactic aspect, and the semantic aspect, and the semantic aspect	Word sections Surat Al-Dhuha and Al-Ikhlas, a study of their linguistic and grammatical aspects The subject and the predicate	Holding research seminars in which some topics are explaine d and analyzed and how to address	Submit ting report s. Daily, semest er and final tests.

6	Kan and her sisters,	Initiation	them.
	and if and her sisters,		
7	nor does it negate sex	copies	Theoreti
8	Identify their concepts, types and	The subject	cal lecture +
9	provisions	and the deputy	methods
1	Recognizing their	subject	of
	concepts, types, direct		presenta
10	object, and types of	The direct	tion,
11	absolute object	object and the	dialogue
		absolute object	and
12	How to differentiate	,	discussio
13	between the hamzat	Number and its	n
	al-wasl and the		11
14	hamzat al-qat`	provisions	
15	Introduction to		
	literature, its	How to write	
16	importance and	hamza	
17	function		
	Theatrical lyric	Literature and	
18	Educational	texts	
19	representation	Elements of	
	A theoretical		
20	introduction to	literature	
21	ancient poetry	Hair types	
	The poem I wish my		
22	poetry was a model	Examples of	
23	An example of his	ancient poetry	

24	poetry	The poet Malik	
	An example of his	bin Al-Rib	
25	poetry	The poet Abu	
26	An example of his	-	
	poetry	Firas Al-	
27	An example of his	Hamdani	
	poetry	Al-Sharif Al-	
	An example of his	Radi	
28	poetry	Abu Alaa Al-	
	An example of his	Maarri	
20	poetry	Lisan al-Din	
29	A theoretical	ibn al-Khatib	
	introduction to	Examples of	
30	modern poetry	modern poetry	
	An example of his	Jaafar Al-Hilli	
	poetry An example of his		
31	poetry	Abu Al-Qasim	
	An example of his	Al-Shabi	
	poetry	jeweler	
32	An example of his	Ahmed Al-Safi	
	poetry	Elijah Abu	
	An example of his	Madi	
33	poetry	Badr Shaker	
		Sayyab	
		Nazik al-	
		Malaika	
34			

11	$\boldsymbol{\alpha}$		1 ,•
	Course	HNAI	บกปกเบ
11.	course	LIVU	uuuuuu

Distribution of the score out of 100 according to the tasks assigned to the

:student, such as

Daily, everyday setting

.Oral, monthly or written tests and reports...etc

First semester 20 percent

.Chapter Two, twenty percent

Daily activity ten degrees

The final exam is fifty marks.

12.Learning and Teaching Resources					
Required textbooks (curricular	Arabic language and grammar books				
books, if any)					
	Special methods in education for teaching the				
Main references (sources)	Arabic language / Author nbsp Al-Ibrashi				
	Muhammad Attia Author Place of publication				
	nbsp Cairo				
Recommended books and					
references (scientific journals,	Exchange written by Dr. Hatem Al-Damen				
reports)					
Electronic References, Websites					

to data structures

3- The student should describe the steps for solving the program

4- The student explains the different methods of solving using different graphic structures

5- The student practically applies different graphic structures

9. Teaching and Learning Strategies

1- Preparing teaching staff for the purpose of qualifying them to teach computer science in schools and institutes affiliated with the Ministry of Education

- 2- Developing students' mental mathematical abilities so that they keep pace with the paths and levels of technical and scientific development in the world
- 3- A field link between intellectual and sports nutrition through scientific knowledge and its reflection on the student's field behavior
- 4- Explaining in theoretical and practical form the interconnection and marriage between the computer and the rest of the scientific branches
- 5- Preparing teaching staff for the purpose of qualifying them to teach computer science in schools and institutes affiliated with the Ministry of Education

Strategy

10.Course Structure

Week	Hours	Required	Unit or subject	Learning	Evaluatio
		Learning	name	method	n method
		Outcomes			

1	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	Introduction to data structure -Non primitive data structure -Linear data structure	Lecture and practical applicatio n	Discussion and exams
2	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	-Array -One dimensional arrays	Lecture and practical applicatio n	Discussion and exams
3	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	Two - dimensional arrays	Lecture and practical applicatio n	Discussion and exams
4	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	Functions -use of function -Function	Lecture and practical applicatio n	Discussion and exams

	3	For the student	details -function calling -Recursively	Lecture	
5	theoreti cal + 2 practica l	to practically apply different graphic structures	Example on recursively functions	and practical applicatio n	Discussion and exams
6	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	- Functionsoverloading- Functiontemplates	Lecture and practical applicatio n	Discussion and exams
7	3 theoreti cal + 2 practica l	apply different	Structure	Lecture and practical applicatio n	Discussion and exams
8	3 theoreti cal + 2 practica l	apply different	-Examples on use string functions	Lecture and practical applicatio n	Discussion and exams

9	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	Structure definition -Structures arrays	Lecture and practical applicatio n	Discussion and exams
10	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	Pointers -Address of operator (&) Deference - operator(*)	Lecture and practical applicatio n	Discussion and exams
11	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	Pointers and arrays	Lecture and practical applicatio n	Discussion and exams
12	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	-Linked list -Types of linked lists -Linked list implementatio n in c++	Lecture and practical applicatio n	Discussion and exams

13	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	-Operations on single linked list -Linked list Examples -Comparison between array and linked list	Lecture and practical applicatio n	Discussion and exams
14	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	Review	Lecture and practical applicatio n	Discussion and exams
15	3 theoreti cal + 2 practica l	apply different	Exam	Lecture and practical applicatio n	Discussion and exams
16	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	Stack - Implementatio n -Analysis of	Lecture and practical applicatio n	Discussion and exams

			stacks -push operation -pop operation		
17	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	-top operation Stack examples	Lecture and practical applicatio n	Discussion and exams
18	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	operations	Lecture and practical applicatio n	Discussion and exams
19	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	Queue -Basic operations on queue -Program	Lecture and practical applicatio n	Discussion and exams
20	3 theoreti cal + 2	For the student to practically apply different	Sorting -Bubble sort	Lecture and practical	Discussion and exams

	practica l	graphic structures	-Selection sort -Insertion sort	applicatio n	
21	3 theoreti cal + 2 practica	For the student to practically apply different graphic structures	-Quick sort	Lecture and practical applicatio n	Discussion and exams
22	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	Searching -Linear search -Binary search	Lecture and practical applicatio n	Discussion and exams
23	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	Binary search an examples	Lecture and practical applicatio n	Discussion and exams
24	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	Trees -Binary trees -Binary trees representation in c++	Lecture and practical applicatio n	Discussion and exams

25	3 theoreti cal + 2 practica l	apply different	-Tree traversals Insertion of - key in tree	Lecture and practical applicatio n	Discussion and exams
26	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	-Binary search in tree -Delete node in tree	Lecture and practical applicatio n	Discussion and exams
27	3 theoreti cal + 2 practica l	apply different	Graphs -Basic operations on graph -Examples	Lecture and practical applicatio n	Discussion and exams
28	3 theoreti cal + 2 practica l	For the student to practically apply different graphic structures	Review	Lecture and practical applicatio n	Discussion and exams
29	3 theoreti cal + 2 practica	For the student to practically apply different graphic	Exam	Lecture and practical applicatio	Discussion and exams

	l	structures		n				
11.0	11.Course Evaluation							
Distr	ibuting th	e score out of 10	0 according to the	e tasks assig	gned to the			
studen	t such as o	daily preparation	n, daily oral, mon	thly, or wr	itten exams,			
		rep	orts etc					
12.1	12.Learning and Teaching Resources							
Requi	red textbo	ooks (curricular						
	books,	if any)						
Main references (sources)			John E. Hopero	o, Bell Labo furray Hill, oft, Cornell a, New Yor Ullman, Sta	oratories, New University, k anford			
refer	ences (scie repoi	rts)	ark Allen Weiss, Florida International University, 2014					
Liectr	onic Keter	rences, Websites						

1. Course Name:	1. Course Name:				
Object	oriented programing				
2. Course Code:					
3. Semester / Year:					
	Annual				
4. Description Preparation De	ate:				
20	25-2024				
5. Available Attendance Forn	ns:				
	Actual presence				
6. Number of Credit Hours (T	Total) / Number of Units (Total):				
2 h	nours per week / 4 units				
7. Course administrator's nar	ne (mention all, if more than one name)				
Name: Ammar Asaad Mohammed					
Email: am	mar.asaad@uobasrah.edu.iq				
8. Course Objectives					
Course Objectives	Study the basic concepts of entity programming and identify the basics				

of object programming work and how to take advantage of them and facilitate the reuse of code.

Explain the principle of classes, how to define the objects of these classes and the use of many important principles that facilitate the programming process and make it more efficient.

9. Teaching and Learning Strategies

Strategy

- Applying the theoretical aspect in practical laboratories by carrying out some
- important scientific experiments that consolidate the information given in the
- Using lectures by speaking to students and using Power Point slides and the blackboard

10.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1		Learn about the concept of	What is a Java program,	Displaying it on a	Homewo -

	Java program, the basic elements of a Java program	the processing of a Java program, the basic elements of a Java program	display screen. 2- Applying the theoretical material in the laboratories	assignme nts Daily - exams Exams - Mid-term
2	Learn about the concept of functions in java	User functions, benefits of using functions, predefined functions Using predefined functions	Displaying it on a display screen. 2- Applying the theoretical material in the laboratories	Homewo - rk assignme nts Daily - exams Exams - Mid-term
3	Learn about the concept of functions in java	Functions that return a value and it's rules	Displaying it on a display screen. 2- Applying the theoretical	Homewo - rk assignme nts Daily - exams Exams - Mid-term

4	Learn about the concept of functions in java	,and functions that do not return a value	material in the laboratories Displaying it on a display screen. 2- Applying the theoretical material in the laboratories	Homewo - rk assignme nts Daily - exams Exams - Mid-term
5	Learn about the concept of Variables types	Variables types	Displaying it on a display screen. 2- Applying the theoretical material in the laboratories	Homewo rk assignme nts Daily - exams Exams - Mid-term
6	Learn about the concept of string class	Strings class	Displaying it on a display	Homewo rk assignme

	and its functions		screen. 2- Applying the theoretical material in the laboratories	nts Daily - exams Exams - Mid-term
7	Learn about the concept of string class and uses	Strings class	Displaying it on a display screen. 2- Applying the theoretical material in the laboratories	Homewo rk assignme nts Daily - exams Exams - Mid-term
8	Learn about the concept of Classes	User-Defined Classes and ADTs	Displaying it on a display screen. 2- Applying the theoretical material in the	Homewo rk assignme nts Daily - exams Exams - Mid-term

			laboratories	
9	Learn about the concept of Classes and its Constructors	Constructors	Displaying it on a display screen. 2- Applying the theoretical material in the laboratories	Homewo - rk assignme nts Daily - exams Exams - Mid-term
10	Learn about the concept of Classes and its objects	Variable Declaration and Object Instantiation	Displaying it on a display screen. 2- Applying the theoretical material in the laboratories	Homewo - rk assignme nts Daily - exams Exams - Mid-term
11	Learn about the concept of Classes and its Constructors	The class members, language- based operations	Displaying it on a display screen.	Homewo - rk assignme nts Daily -

	and functions	that affect classes, functions and classes	2- Applying the theoretical material in the laboratories	exams Exams - Mid-term
12	Learn about the concept of feature of Constructor	constructor functions, using constructor functions, copy constructor, classes and function, static members of a class	Displaying it on a display screen. 2- Applying the theoretical material in the laboratories	Homewo - rk assignme nts Daily - exams Exams - Mid-term
13	Learn about the concept of This reserving word	this	Displaying it on a display screen. 2- Applying the theoretical material in	Homewo rk assignme nts Daily exams Exams Mid-term

14	Learn about the concept of Inner Classes and its types	Inner Classes	the laboratories Displaying it on a display screen. 2- Applying the theoretical material in the laboratories	Homewo rk assignme nts Daily - exams Exams - Mid-term
15	Learn about the concept of Abstraction and encapsulation	Abstraction and encapsulation	Displaying it on a display screen. 2- Applying the theoretical material in the laboratories	Homewo rk assignme nts Daily - exams Exams - Mid-term
16	Learn about the concept of Inheritance	Inheritance	Displaying it on a display screen.	Homewo rk assignme nts

			2- Applying the theoretical material in the laboratories	Daily - exams Exams - Mid-term
17	Learn about the concept of Inheritance and its uses	Inheritance	Displaying it on a display screen. 2- Applying the theoretical material in the laboratories	Homewo - rk assignme nts Daily - exams Exams - Mid-term
18	Learn about the concept of Polymorphism	Polymorphism	Displaying it on a display screen. 2- Applying the theoretical material in the laboratories	Homewo - rk assignme nts Daily - exams Exams - Mid-term

19	Learn about the concept of Abstract	Abstract Methods and Classes	Displaying it on a display screen. 2- Applying the theoretical material in the laboratories	Homewo - rk assignme nts Daily - exams Exams - Mid-term
20	Learn about the concept of Interfaces	Interfaces	Displaying it on a display screen. 2- Applying the theoretical material in the laboratories	Homewo rk assignme nts Daily - exams Exams - Mid-term
21	Learn about the concept of Interfaces	Interfaces example	Displaying it on a display screen. 2- Applying	Homewo - rk assignme nts Daily - exams

			the theoretical	Exams - Mid-term
			material in	
			the	
			laboratories	
			Displaying it on a display	Homewo rk
			screen.	assignme
22	Learn about the concept of Exception	User-defined Exception	2- Applying the theoretical material in the laboratories	nts Daily - exams Exams - Mid-term
23	Learn about the concept of Exception	User-defined Exception	Displaying it on a display screen. 2- Applying the theoretical material in the laboratories	Homewo rk assignme nts Daily - exams Exams - Mid-term
24	Learn about	Creating	Displaying	Homewo

	the concept of GUI	Window JFrame	it on a display screen. 2- Applying the theoretical material in the laboratories	rk assignme nts Daily - exams Exams - Mid-term
25	Learn about the concept of GUI	graphic user interfaces	Displaying it on a display screen. 2- Applying the theoretical material in the laboratories	Homewo - rk assignme nts Daily - exams Exams - Mid-term
26	Learn about the concept of GUI and how to create programs	graphic user interfaces 2	Displaying it on a display screen. 2- Applying the theoretical	Homewo - rk assignme nts Daily - exams Exams -

			material in the laboratories	Mid-term
27	Learn about the concept of GUI and how to create programs	graphic user interfaces 3	Displaying it on a display screen. 2- Applying the theoretical material in the laboratories	Homewo - rk assignme nts Daily - exams Exams - Mid-term
28	Learn about the concept of GUI and how to create programs	graphic user interfaces 4	Displaying it on a display screen. 2- Applying the theoretical material in the laboratories	Homewo - rk assignme nts Daily - exams Exams - Mid-term
29	Learn about the concept of GUI and how	graphic user interfaces 5	Displaying it on a display	Homewo rk assignme

	to create programs		screen. 2- Applying the theoretical material in the laboratories	nts Daily - exams Exams - Mid-term
30	Learn about the concept of GUI and how to create programs	graphic user interfaces 5	Displaying it on a display screen. 2- Applying the theoretical material in the laboratories	Homewo - rk assignme nts Daily - exams Exams - Mid-term

11. Course Evaluation

The subject's grade is (100) distributed over the following aspects:

• Midterm exam + Lab exam 45%

• Daily exams + Report 5%

• Final lab exam: 15%

• Final exam: 35%

• Total score: 100%

12.Learning and Teaching Resources

Required textbooks (curricular

books, if any)	
Main references (sources)	An Introduction to Object-Oriented Programming with Java Object- Oriented Programming and Java An Introduction to Object-Oriented Programming with JavaTM
Recommended books and references	
(scientific journals, reports)	
Electronic References, Websites	

1. Course Name:
Microcomputers and assembly language
2. Course Code:
2 C / V
3. Semester / Year:
Annual
4. Description Preparation Date:
2025-2024
5. Available Attendance Forms:
Actual presence
6. Number of Credit Hours (Total) / Number of Units (Total):
4 hours per week / 6 units
7. Course administrator's name (mention all, if more than one name)
Name: ghazwan Abdulnabi al-ali Email: ghazwan.alali@uobasrah.edu.iq
8. Course Objectives
This course aims to understand the basics of programming, architecture and processor interaction for general students who have prior knowledge in both computer hardware and software and understand the main components and working principles of the 8088 microprocessor.

9. Teaching and Learning Strategies

- Educational strategy, collaborative concept planning.
- Brainstorming education strategy.
- Education Strategy Notes Series
- Applying the theoretical aspect in practical laboratories by carrying out some

• important scientific experiments that consolidate the information given in thetheoretical aspect.

• Using lectures by speaking to students and using Power Point slides and the blackboard

10. Course Structure

We ek	Ho urs	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 - 2	4	Knowledge about microprocessi ng	Introductio n to Microcomp uter	 Lectures. In - Class Questions and Discussions. Connection between Theory and Application. 4. 	 ✓ Homework assignments ✓ Daily exams ✓ Monthly exams ✓ Mid-term and final exam
3 - 4	4	Knowledge of general microcompute r system architecture	General Architectur e of Microcomp uter system	Extracurricular Activities. 5. Seminars. 6. In-and Out- Class oral conservations. 7. Reports,	

Strategy

5 - 7	6	Knowledge of 8088 microprocesso rs	Introductio 8088n Microproce ssor	Presentations, and Posters.	
8 - 9	6	Knowledge of memory address and data organization	Memory address space and data organizatio n		
10 - 12	6	Knowledge of Segment & Data Registers(Gen eral purpose Registers)	Segment & Data Registers(G eneral purpose Registers)		
13 - 15	6	Learn assembly language programming	Assembly Language Programmi ng		
16 - 18	6	Implementing structures in assembly language	Implementi ng Control Structures in Assembly		

			Language
19 - 21	10	Implementing arrays and stack loops in assembly language	Arrays, Loop and stack in assembly Language
22 - 24	6	Learn machine language coding methods + interrupt procedures	Machine Language Coding+ Interrupt Routines
25 - 30	6	Basic knowledge about principles and techniques the Arduino.	Basic knowledge about principles and techniques the Arduino.

1. Course Evaluation

Semester exam score 50 and final exam score 50

The semester score is 15 marks for the practical exam and 35 marks for the theoretical exam

2. Learning and Teaching Resources

Required textbooks (curricular	Rafael C. Gonzalez & Richard E. Wood,
books, if any)	"Digital Image Processing", 2/E, Prentice-Hall
	2001
Main references (sources)	Intel® 64 and IA-32 Architectures Software
	Developer's Manual Volume 2 (2A, 2B, 2C &
	2D): Instruction Set Reference, A-Z
Recommended books and	88 - 8086 microprocessor software application
references (scientific journals,	•
reports)	and design/avtar singh
Electronic References, Websites	None

1. Course Name:							
Numerical analysis.							
2. Course Code:							
3. Semester / Year:							
	Annual						
4. Description Preparation Date:							
2025-	-2024						
5. Available Attendance Forms:							
A	ctual presence						
6. Number of Credit Hours (Total)	/ Number of Units (Total):						
4 hour	rs per week / 6 units						
7. Course administrator's name (m	ention all, if more than one name)						
Name: Dr. Takia Ahmed Jawad Al-Griffi. Email: takia.ahmed@uobasrah.edu.iq							
8. Course Objectives							
Course Objectives	Enabling the student to solve problems related to numerical						

analysis.

- Enable the student to benefit from the material in scientific applications.
- Familiarity with designing and writing programs related to numerical analysis.
- Familiarity with designing, writing, and developing algorithms related to theoretical subjects.
- Enable the student to work in a group to solve problems associated with numerical analysis programs.

9. Teaching and Learning Strategies

Strategy

- 1- Educational strategy, collaborative concept planning.
- 2- Brainstorming education strategy.
- 3-Education Strategy of Notes Series.

10.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	6		Numerical	1- Explaining	Weekly,
2		Enabling	analysis	the scientific	monthly,
3		the		material to	daily, and
4		student to		students in	written
5		solve		detail.	exams, and
6		problems			the end-of-
7		related to		2- Students'	year exam.
8		numerical		participation	
9		analysis.		in solving	

10		mathematical	
11		problems.	
12			
13		3- The	
14		student's	
15		familiarity	
vacation		with	
16		designing,	
17		writing, and	
18		developing	
19		algorithms	
19		related to the	
20		theoretical	
21		subject.	
22			
23			
24		4- Enabling	
25		the student	
26		to solve	
27		problems	
28		related to	
29		numerical	
30		analysis.	

11.Course Evaluation

Distribution is as follows: 15 marks for the practical aspect and 35 marks for the theoretical aspect. Monthly and daily exams for the first semester. 15 marks for the practical aspect and 35 marks for the theoretical aspect. Monthly and daily exams for the second semester. 50 marks for final exams.

12.Learning and Teaching Resources						
Required textbooks (curricular	مقدمة في التحليل العددي (د. كاظم مجد حسين اللامي).					
books, if any)						
Main references (sources)	مقدمة في التحليل العددي ترجمة (د. كاظم اللامي و					
	د. منتهی جرجیس).					
	مبادئ التحليل العددي (د. مجد علي صادق السيفي).					
Recommended books and	Hildbrand D. B. (introduction of					

references (scientific journals,	.numerical analysis)		
reports)	Froberg C. E. (introduction of numerical		
	. analysis)		
	Burden (numerical analysis).		
Electronic References, Websites	https://zlibrary-asia.se/ /https://www.researchgate.net		

1. Course Name:								
Database and system analysis								
2. Course Code:								
3. Semester / Year:								
	Annual							
4. Description Preparation Date:								
2025	5-2024							
5. Available Attendance Forms:								
	Actual presence							
6. Number of Credit Hours (Total)) / Number of Units (Total):							
4 hou	ırs per week / 6 units							
7. Course administrator's name (n	nention all, if more than one name)							
Noz	ne: doaa alrubaye							
_	_							
<i>Email:</i>	Email: duaa93@gmail.com							
8. Course Objectives								
2. 20 M. 50 3 5 J 5 W. 1 US	The goal of studying databases is to offer							
Course Objectives	introduction to database manageme							
Course Cojecuros	systems, with an emphasis on how							

organize, maintain, and retrie information - efficiently and effectively from a database management system.

9. Teaching and Learning Strategies

Strategy

- A- Cognitive objectives:
- Introduction to database management systems
- Design an integrated database that includes a number of tables, queries, and reports
- Linking the components of the rule with different types of relationships
- Design visual interfaces that manage the database
- Apply a number of SQL instructions in searching and retrieving data
- **B-** Skills objectives for the course:
- Familiarity with designing and developing programs related databases
- Familiarity with writing and developing algorithms related to databases
- Enabling the student to solve problems associated with database management programs
- Enable the student to work within a group to solve problems related to database programs

Teaching and learning methods

- Providing the student with basic and secondary topics related to database management systems
- Translating theoretical topics and vocabulary related to database management systems into computer programs

• Asking	the	student	to	use	computer	programs	related
theoretica	l voc	abulary					

10.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 - 2	4	ntroduction to Access 010, the first types of access objects, basic database concepts, opening a database, components of a database, what are iccounts, sayings and keys? What are lationships? Designing a Database, Tips on Choosing Different lypes, Differentiating the Database, Its atabase, Modifying It, id the Table in Design View	Introduction of Database and Data Analyses. Components of a Database System	Lectures	Exams
3 - 4	4	rt, search, and filter ta in a datasheet.	Data Models	Lectures	Exams

		mport and export data			
5 - 7	6	eate tables and protect er-specific data, create bes of queries, such as ect query, create a ery in Design view, we the query, edit a ery, work with altiple related tables, rk with query atasheets, save queries.	Rules. Relationships within the Relational	Lectures	Exams
8 - 10	6	sign and use forms d form basics, modify sting forms, fully nfigure the form, store er-specific forms, eate controls that splay text, numbers, d dates, choose fonts, ors, and other corative touches, add ats, boxes, and ckgrounds, and rform calculations in forms and subforms.	Forms Designing, Building, Editing & Used it. Also, Making controls objects, for multiple tasks, beside forms format styles	Lectures	Exams
10 - 11	4		Normalization of Database	Lectures	Exams

		tables	Tables, De-		
			normalization		
12 - 13	4	roduction to defining SQL commands	Introduction to SQL, Data Definition Commands	Lectures	Exams
14 - 16	6	owse data types, eate table structures,)L constraints, SQL indexes	Data Types, Creating Table Structures, SQL Constraints, SQL Indexes	Lectures	Exams
17-18	4	hat are the data ocessing commands and their application	Data Manipulation Commands	Lectures	Exams
19	2	plain the concepts of ical operations: AND, OR, and NOT	Logical Operators: AND, OR, and NOT, Special Operators	Lectures	Exams
20-22	6	arn how to perform dates, copy parts of oles, add primary and eign key mappings,	Advanced Data Updates, Copying Parts of Tables, Adding	Lectures	Exams

		d delete a table from	Primary and		
		the database	Foreign Key		
			Designations,		
			Deleting a		
			Table from		
			the Database		
		plain aggregation	Aggregate	Lectures	Exams
		nctions and data	Functions,	Lectures	Exams
23-24	4		Grouping		
		aggregation	Data		
		plain operations on	Relational Set	Lectures	Exams
25-26	4	relational groups	Operators	Eccurc s	
			SQL Join	Lectures	Exams
27-28	4		Operators	Lectures	Exams
		scussing projects and	Project &	Lectures	Exams
29-30	4	viewing the material	Review		
		before the final 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

	Database Systems: Design,	
Required textbooks (curricular	Implementation, and Management, Ninth	
books, if any)	Edition, By Carlos Coronel, Steven	
	Morris, and Peter Rob, 2011.	
Main references (sources)	1. Silberschatz, Korth, "Data base System	

	Concepts", 4th ed., McGraw hill, 2006.
	2. Peter Rob
	and Carlos Coronel, Database Systems-
	Design, Implementation and Management
	(7/e), Cengage Learning, 2007.
Recommended books and	1. Introducti
references (scientific journals,	to Database Concepts and Microsoft Acc
reports)	20
Electronic References, Websites	

1. Course Name:				
Computationa	l Theory			
2. Course Code:				
3. Semester / Year:				
Annual				
4. Description Preparation Date:				
2025-2024				
5. Available Attendance Forms:				
Actual pr	resence			
6. Number of Credit Hours (Total) / Numb	er of Units (Total):			
3 hours per w	eek / 6 units			
7. Course administrator's name (mention of	all, if more than one name)			
Name: mushtaq ad	ulmutalib hasson			
Email: mushtaq.husse	on@uobasrah.edu.iq			
8. Course Objectives				
Course Objectives	This course emphasizes computabile and computational complexity theo			

Topics include regular and conte
free languages, decidable d
undecidable problems, reducibil
recursive function theory, time of
space measures on computati
completeness, hierarchy theorem
inherently complex problems,

Strategy

Providing the student with prima and secondary topics related computational theory design.

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Obtaining knowledge of mathematical methods and preparation for design	Introduction	Lecture	Exam

2	3	Obtaining knowledge of mathematical methods and preparation for design	Sets and operations	Lecture	Exam
3	3	Obtaining knowledge of mathematical methods and preparation for design	Elementary concepts	Lecture	Exam
4	3	Obtaining knowledge of mathematical methods and preparation for design	Kleen colsure	Lecture	Exam
5	3	Obtaining knowledge of	Introduction to grammar	Lecture	Exam

		mathematical methods and preparation for design			
6	3	Obtaining knowledge of mathematical methods and preparation for design	Phrase structure grammar	Lecture	Exam
7	3	Obtaining knowledge of mathematical methods and preparation for design	Chomsky normal form	Lecture	Exam
8	3	Obtaining knowledge of mathematical methods and preparation for design	Bakups-nour notation BNF	Lecture	Exam

10-9-	3	Obtaining knowledge of mathematical methods and preparation for design	Derivation and languages	Lecture	Exam
11	3	Obtaining knowledge of mathematical methods and preparation for design	Derivation trees	Lecture	Exam
12	3	Obtaining knowledge of mathematical methods and preparation for design	Ambiguous CFL	Lecture	Exam
13	3	Obtaining knowledge of	Chomsky hierarchy	Lecture	Exam

		mathematical methods and preparation for design			
14	3	Obtaining knowledge of mathematical methods and preparation for design	Context free grammar	Lecture	Exam
15	3	Obtaining knowledge of mathematical methods and preparation for design	Regular grammar	Lecture	Exam
16	3	Obtaining knowledge of mathematical methods and preparation for design	Regular expression	Lecture	Exam

17	3	Obtaining knowledge of mathematical methods and preparation for design	Transition graph	Lecture	Exam
18	3	Obtaining knowledge of mathematical methods and preparation for design	automata	Lecture	Exam
19	3	Obtaining knowledge of mathematical methods and preparation for design	Basic machine	Lecture	Exam
20	3	Obtaining knowledge of	Finite state automata	Lecture	Exam

		mathematical methods and preparation for design			
21	3	Obtaining knowledge of mathematical methods and preparation for design	Finite state automata DFA NFA	Lecture	Exam
22	3	Obtaining knowledge of mathematical methods and preparation for design	Finite state automata as language acceptor	Lecture	Exam
23	3	Obtaining knowledge of mathematical methods and preparation for design	Finite state automata as language translator	Lecture	Exam

24	3	Obtaining knowledge of mathematical methods and preparation for design	Push down automata PDA	Lecture	Exam
25	3	Obtaining knowledge of mathematical methods and preparation for design	Push down automata PDA as language acceptor	Lecture	Exam
26	3	Obtaining knowledge of mathematical methods and preparation for design	Push down automata PDA as language translator	Lecture	Exam
27	3	Obtaining knowledge of	Turing machine	Lecture	Exam

		mathematical methods and preparation for design			
28	3	Obtaining knowledge of mathematical methods and preparation for design	Turing machine acceptor	Lecture	Exam
29-30	3	Obtaining knowledge of mathematical methods and preparation for design	Turing machine translator	Lecture	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,	Introduction to Computer Theory
if any)	2nd Edition Daniel I. A.
Main references (sources)	Introduction to Automata Theory,

	Languages, and Computation, 2/E, John E. Hopcroft, Rajeev Motwani, Jeffrey D.Ullman, Addison-Wesley 2001. ISBN 0-201 44124-1.
Recommended books and references (scientific journals, reports)	
Electronic References, Websites	

1. Course Name:			
	Scientific research method		
2. Course Code:			
3. Semester / Yea	r:		
	Annual		
4. Description Pr	reparation Date:		
	2025-2024		
5. Available Atte	ndance Forms:		
	Actual presence		
6. Number of Cro	edit Hours (Total) / Number of Units (Total):		
	2 hours per week / 4 units		
7. Course admin	istrator's name (mention all, if more than one name)		
	Name: entesar barges talal		
Email:			
8. Course Object	ives		
Course	• Introducing the student to scientific methods for writing		
Objectives	scientific research		

• The student studies - theoretically - the steps that must be
taken to write scientific theses.

• Applying this study practically to a brief research.

9. Teaching and Learning Strategies

Strategy

Providing the student with basic and secondary top related to the research.

Wee k	Hou rs	Required Learning Outcomes	Unit or subject name	Learning method	Evalua tion method
1-3	2	Learn research methodol ogy tools	Introduction to the scientific research method: science, its goals, scientific knowledge, scientific theory.	Lectures and dissuasion	Exams
4-7	2	Learn research methodol ogy tools	General concepts of the scientific method: goals, assumptions, scientific hypothesis, scientific method, elements of scientific research.	Lectures and dissuasion	Exams
8-10	2	Learn research methodol ogy tools	General concepts of the scientific method: goals, assumptions, scientific	Lectures and dissuasion	Exams

			hypothesis, scientific method,		
			elements of scientific research.		
11- 14	2	Learn research methodol ogy tools	Research problem: its sources, importance, objectives, research plan, procedures.	Lectures and dissuasion	Exams
15- 19	2	Learn research methodol ogy tools	Use of references, library, classification, scientific documentation	Lectures and dissuasion	Exams
20-	2	Learn research methodol ogy tools	Scientific research tools: observation, interview, questionnaire, and test.	Lectures and dissuasion	Exams
23- 24	2	Learn research methodol ogy tools	Sample: selection, types, sample size.	Lectures and dissuasion	Exams
25- 26	2	Learn research methodol ogy tools	Research methods: historical research method, importance, collecting sources, criticism	Lectures and dissuasion	Exams
27	2	Learn research methodol ogy tools	Systems analysis approach: types, steps.	Lectures and dissuasion	Exams
28	2	Learn research methodol ogy tools	Descriptive research method: importance, types.	Lectures and dissuasion	Exams
29	2	Learn research methodol ogy tools	Experimental research methodology: importance, experimental control, experimental designs.	Lectures and dissuasion	Exams

29	2	Learn research methodol ogy tools	Writing scientific research: title, writing style, research components	Lectures and dissuasion	Exams
30	2	Learn research methodol ogy tools	Scientific research institutions in Iraq: obstacles to scientific research, the reality of scientific research.	Lectures and dissuasion	Exams

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	Research . Dr Zoqan Obaidat et al.,
books, if any)	Amman, 2002
	1 - Scientific thinking. Dr Fouad Zakaria,
	Kuwait, 1978.
	2- Scientific research methods and methods.
	Dr Wajih Mahjoub, Baghdad, 1993.
	3- Scientific Research Methodology. Manu
	Guedro, Dr. Mohamed Abdel Nabi El-Sayed
Main references (sources)	Ghanem, 2002.
	4- The principles of scientific research and
	its methods. Ahmed Badr, Kuwait, 1986.
	5- Basics of scientific research. Dr Ahmed
	Kuwait, 1978. 2- Scientific research methods and methods Dr Wajih Mahjoub, Baghdad, 1993. 3- Scientific Research Methodology. Manu Guedro, Dr. Mohamed Abdel Nabi El-Saye Ghanem, 2002. 4- The principles of scientific research and its methods. Ahmed Badr, Kuwait, 1986.
	Malkawi, Amman, 2000.
	6- Research methods in education and

	psychology. Dr Sami Muhammad Melhem, Amman, 2006. 7- Methodological patterns and their applications. D. Anwar Hussein Abdel Rahman and Dr. Adnan Haqqi, Baghdad, 2007. 8- Conceptual and theoretical foundations. Dr Anwar Hussein Abdel Rahman and Dr. Adnan Haqqi, 2008. 8- Kirk. R. Experimental Design, California, 2005.
Recommended books and references (scientific journals, reports) Electronic References, Websites	

1. Course Name:					
Ai	rabic Language				
2. Course Code:					
3. Semester / Year:					
	Annual				
4. Description Preparation Date:	•				
20	25-2024				
5. Available Attendance Forms:					
Actual presence					
6. Number of Credit Hours (Tota	ul) / Number of Units (Total):				
1 h	1 hours per week / 2 units				
7. Course administrator's name	(mention all, if more than one name)				
= 7					
	ame: Ragaad Ahmed				
Email: ragadahmmad1996@gmail.com					
8. Course Objectives					
	The student should be able to use the				
Course Objectives	language correctly in writing and in				
	communicating with others.				

 Developing the student's literary ta 			
	that he understands the aesthetic aspects		
	of speech styles, meanings, and images.		

Strategy

Dialogue strategy
Discussion strategy

W e e k	H o u rs	Required Learning Outcomes	Unit or subject name	Learning method	Evaluatio n method
1 2 3	1	Defining the noun, verb, and letter, and indicating the signs of each section It dealt with the linguistic aspect, the syntactic aspect, and the semantic aspect It dealt with the linguistic aspect, the syntactic aspect, and the semantic aspect, and the semantic aspect	Word sections Surat Al-Dhuha and Al-Ikhlas, a study of their linguistic and grammatical aspects The subject and the predicate	Holding research seminars in which some topics are explaine d and analyzed and how to address	Submit ting report s. Daily, semest er and final tests.

6	Kan and her sisters,	Initiation	them.
	and if and her sisters,		
7	nor does it negate sex	copies	Theoreti
8	Identify their concepts, types and	The subject	cal lecture +
9	provisions	and the deputy	methods
1	Recognizing their	subject	of
	concepts, types, direct		presenta
10	object, and types of	The direct	tion,
11	absolute object	object and the	dialogue
		absolute object	and
12	How to differentiate	,	discussio
13	between the hamzat	Number and its	n
	al-wasl and the		11
14	hamzat al-qat`	provisions	
15	Introduction to		
	literature, its	How to write	
16	importance and	hamza	
17	function		
	Theatrical lyric	Literature and	
18	Educational	texts	
19	representation	Elements of	
	A theoretical		
20	introduction to	literature	
21	ancient poetry	Hair types	
	The poem I wish my		
22	poetry was a model	Examples of	
23	An example of his	ancient poetry	

24	poetry	The poet Malik	
	An example of his	bin Al-Rib	
25	poetry	The poet Abu	
26	An example of his	-	
	poetry	Firas Al-	
27	An example of his	Hamdani	
	poetry	Al-Sharif Al-	
	An example of his	Radi	
28	poetry	Abu Alaa Al-	
	An example of his	Maarri	
20	poetry	Lisan al-Din	
29	A theoretical	ibn al-Khatib	
	introduction to	Examples of	
30	modern poetry	modern poetry	
	An example of his	Jaafar Al-Hilli	
	poetry An example of his		
31	poetry	Abu Al-Qasim	
	An example of his	Al-Shabi	
	poetry	jeweler	
32	An example of his	Ahmed Al-Safi	
	poetry	Elijah Abu	
	An example of his	Madi	
33	poetry	Badr Shaker	
		Sayyab	
		Nazik al-	
		Malaika	
34			

11	$\boldsymbol{\alpha}$		1 ,•
	Course	HNAI	บกปกก
11.	comb	LIVU	uuuuuu

Distribution of the score out of 100 according to the tasks assigned to the

:student, such as

Daily, everyday setting

.Oral, monthly or written tests and reports...etc

First semester 20 percent

.Chapter Two, twenty percent

Daily activity ten degrees

The final exam is fifty marks.

12.Learning and Teaching Resources				
Required textbooks (curricular	Arabic language and grammar books			
books, if any)				
	Special methods in education for teaching the			
Main references (sources)	Arabic language / Author nbsp Al-Ibrashi			
	Muhammad Attia Author Place of publication			
	nbsp Cairo			
Recommended books and				
references (scientific journals,	Exchange written by Dr. Hatem Al-Damen			
reports)				
Electronic References, Websites				

1. Course Name:		
1	Developmental psychology	
2. Course Code:		
3. Semester / Year:		
	Annual	
4. Description Preparation	on Date:	
	2025-2024	
5. Available Attendance I	Forms:	
	Actual presence	
6. Number of Credit Hou	ers (Total) / Number of Units (Total):	
	2 hours per week / 4 units	
7. Course administrator's	s name (mention all, if more than one name)	
	ame: Zainab Jamil Abdel Jalil zainab.abduljuleel@uobasrah.edu.iq	
8. Course Objectives		
Course objectives	• For the student to become familiar with the	
Explaining the concept of	concept of developmental psychology, its	
psychology, its importance, importance and goals		
and the extent of its impact on the individual in	• That the student be able to explain and predict some of the behaviors that the student	
particular and on society in	will exhibit in the future according to the	

general. The student	nature of the age stage
should apply what he has	
learned by dealing with	
students according to the	
nature of the age stage.	

The learning strategy involves students' participation with the teacher in presenting many questions Psychological and educational information that is important to humans and discuss it directly with students,

• And express their opinions about this psychological information and how important it is to them.

We ek	Ho urs	Requir ed Learni ng Outco mes	Unit or subject name	Learning method	Evaluation method
1 - 2	2	Knowle dge about micropr ocessing	Developmental psychology ((overview) The origins and development of developmental psychology	 Lectures. In - Class Questions and Discussions. Connection between Theory and Application. 4. Extracurricular Activities. 5. Seminars. 	 ✓ Homework assignments ✓ Daily exams ✓ Monthly exams ✓ Mid-term and final exam

Some basic	6. In-and Out- Class oral conservations.	
concepts in growth	7. Reports,	
The importance of	Presentations, and Posters.	
developmental		
psychology from		
an applied		
perspective		
And theory		
The importance of		
developmental		
psychology for		
society		
The importance of		
developmental		
psychology for		
educators and		
teachers		
Factors affecting		
growth,		
represented by		
internal and		
external factors		
The environment		
and its impact on		
growth		

Genetics and its effect on growth Research methods in developmental psychology Experimental and experimental	
approach General laws of developmental psychology	
Developmental theories Erikson and Piaget's theory (Childhood (early	
Childhood (middle) stage	

childhood (late) stage	
(adolescence (early adolescence ((middle	
(adolescence (late	
Old age	
Premature aging Premature aging	
Middle old age	
Late old age	
Educational applications of the curriculum	

1. Course Evaluation

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

2. Learning and Teaching Resources				
Required textbooks (curricular	Muhammad Imad Al-Din Ismail (2006) The			
books, if any)	Child from Conception to Adulthood, Part 1_			
	.Part 2, Kuwait, Dar Al-Qalam			
	•			
Main references (sources)	Hamed Zahran (2007), Developmental			
	Psychology, Cairo World of Books			
Recommended books and	Muhammad Jamil Mansour and Farouk			
references (scientific journals,	Abdel Salam (2006), Growth from			
reports)	childhood to adolescence, Jeddah, Tihama			
Electronic References, Websites				

1. Course Name:			
English Language			
2. Course Code:			
3. Semester / Year:			
Annual			
4. Description Preparation Date:			
2025-2024			
5. Available Attendance Forms:			
Actual presence			
6. Number of Credit Hours (Total) / Number of Units (Total):			
1 hour per week / 2 units			
7. Course administrator's name (mention all, if more than one name)			
Name: Ahmed Kadhim Shanan			
Email: ahmed.shanan@uobasrah.edu.iq			
8. Course Objectives			
Course Objectives • Enabling students to improve listening, speaking, writing, and reading skills.			

•	Acquiring	self-learning	skills	for	the
	language				

Strategy

- Presentations
- Listen to video clips through display screens
- Adopting the method of discussion with students through translation of clips and conversation

Week	Ho urs	Requi red Learn ing Outco mes	Unit or subject name	Learning method	Evaluation method
1-2	1		Types of Present Tenses: Exercis		Exams
3-4	1		Types of Past Tenses: Exercises	Lecture	Exams
5-6	1		Future Tense: Exercises	Lecture	Exams
7-8	1		Articles and nouns: (a/an and th	Lecture	Exams
9-10	1		Countable and uncountable:	Lecture	Exams
11-12	1		Exercises Singular and Plural Nounce	Lecture	Exams
13-14	1		Singular and Plural Nouns: Exercises	Lecture	Exams
15-16	1		Adjectives and adverbs: Exercise	Lecture	Exams
17-18	1		Comparative 1, 2, 3: Exercises	Lecture	
19-20	1		Conjunction: Exercises	Lecture	Exams
21-22	1		Prepositions: Exercises	Lecture	Exams
23-24	1		Modals 1: Exercises	Lecture	Exams
25-26	1		Questions: Exercises	Lecture	Exams
27-28	1		Auxiliary Verbs: Exercises	Lecture	Exams
29-30	1		Relative Clauses: Exercises	Lecture	Exams

Pass	ive: Exercises				
11.Course Evaluation					
homework					
Monthly exams					
Mid-year and final-year exams					
12.Learning and Teaching Resou	urces				
	• ENGLISH. GRAMMAR. <i>IN</i> USE.				
Required textbooks (curricular	Fifth Edition. Raymond Murphy.				
books, if any)	• Basic English Grammer By ANNE				
oooks, if uniy)	SEATON				
Main references (sources)	• Essential-English BY C.E.				
	ECKERSLEY				
	• English Vocabulary in Use:				
	Vocabulary Reference and Practice:				
	with Answers				
Recommended books and					
references (scientific journals,					
reports)					
Electronic References, Websites					

al administration and supervision
Annual
ute:
2025-2024
is:
Actual presence
Total) / Number of Units (Total):
2 hours per week / 4 units
ne (mention all, if more than one name)
me:D.r salman Fayyad Dowod ail: salmanfayyad@gmail.com
1- That students become familiar with the
concept of educational administration and supervision.

- 2- That students become familiar with the theories of educational administration
- 3- That students become aware of administrative patterns
- 4- That students realize the role of educational administration in achieving the goals of the educational process
- 5- That students become familiar with educational leadership styles.
- 6- That students become familiar with the concept of educational supervision.

Strategy -Lectures/discussions/brainstorming/writing reports

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-4	2 H		1-	·Lectures/	:Tests -
		- That students realize the	Administration and education administration	iscussions/ unstorming/	Preliminary (pre-tests)
5-8		importance of educational administration and its role in	- nature of the administration	iting reports	- Structural (daily

		achieving			-)tes	-)tests	-)tests	-)tests	-)tests	-)tests
		educational			-Fin	-Final	-Final	-Final	-Final	-Final
		goals								assessment
							(final			
<i>9-13</i>	2 H	- That	2-theories				exams)	-	_	
		students	administration				,	,	,	,
		acquire								
		positive								
		attitudes								
		towards								
		school								
		administration								
<i>14-18</i>	2 H	- Creating	Patterns of							
		positive	educational							
		tendencies	administration							
		towards								
		educational								
		administrative								
		theories								
19-21	2 H	- That	School							
		students	administration							
		employ the								
		scientific								
		knowledge								
		they have								
		acquired in								
		serving the								

		educational process.				
22-25	2 H	-Students should plan for class management	Classroom administration			
24-26	2 H	For students to understand the concept of leadership and classroom leadership.	Education leadership			
27-30	2 H	- For students to understand the concept of educational enlightenment	Education supervision			
11. Course Evaluation						
Total grade (100) - Semester exams (40) - Class participation (10) grades - Final exam grade (50) grades						
)		Teaching Resout	rces			
Required	textbook	s (curricular A	desina, S (2001).	Required textbooks (curricular Adesina, S (2001). Basic Principles of		

Supervision, New York, American.

books, if any)

Recommended

reports...)

Main references (sources)

references (scientific journals,

Electronic References, Websites

books

1. Course Name:	1. Course Name:		
Ba	ath Party crimes		
2. Course Code:			
3. Semester / Year:			
	Annual		
4. Description Preparation Date:			
202	25-2024		
5. Available Attendance Forms:			
	Actual presence		
6. Number of Credit Hours (Tota	ul) / Number of Units (Total):		
1 h	ours per week / 2 units		
7. Course administrator's name ((mention all, if more than one name)		
Na	ame: noor kate abbas		
Email	: noor.k.abbas@uobasrah.edu.iq		
8. Course Objectives			
	• Learn about the government system in		
Course Objectives	Iraq		
	The most important violations committee		

- by the previous regime against the Iraqi people
- The most important violations against international law that the previous regin was subjected to

9. Teaching and Learning Strategies

Strategy

The teaching method follows the lecture method and the questioning method, relying on the Foundations of Education book, and sometimes requires the use of the blackboard and pen.

We ek	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	 To learn about the system of government in Iraq The most important violations committed by the previous regime against the Iraqi people The most important violations against the Iraqi people 	Baath Party crimes	Lecture - interro gation method	The quarterly exam in addition to daily participa tion and attendan ce

		international law that the former regime was subjected to are the crimes of the Baath Party			
2	1	The concept of crimes	Chapter One	Lecture - interro gation method	The quarterly exam in addition to daily participa tion and attendan ce
3	1	Monarchy in Iraq	Chapter Two	Lecture - interro gation method	The quarterly exam in addition to daily participa tion and attendan ce

4	1	Republican Governance	Chapter Two	Lecture - interro gation method	The quarterly exam in addition to daily participa tion and attendan ce
7-5	1	Stages of Republican rule in Iraq	Chapter Two	Lecture - interro gation method	The quarterly exam in addition to daily participa tion and attendan ce
10_8	1	The first stage (1958-1968)	Chapter Two	Lecture - interro gation method	The quarterly exam in addition to daily

					participa tion and attendan ce
-11 13	1	The second stage (1968- 1978)	Chapter Two	Lecture - interro gation method	The quarterly exam in addition to daily participa tion and attendan ce
14	1	The third stage (1978-2003)	Chapter Two	Lecture - interro gation method	The quarterly exam in addition to daily participa tion and attendan ce

15	1	The most important violations committed by the Baath Party regime	Chapter Three	Lecture - interro gation method	The quarterly exam in addition to daily participa tion and attendan ce
16	1	Violations of intellectual freedom	Chapter Three	Lecture - interro gation method	The quarterly exam in addition to daily participa tion and attendan ce
_1 7	1	Violation of public rights	Chapter Three	Lecture - interro gation method	The quarterly exam in addition to daily

					participa tion and attendan ce
_2 0 22	1	Social, political and religious violations	Chapter Three	Lecture - interro gation method	The quarterly exam in addition to daily participa tion and attendan ce
_23 25	1	Violation of party pluralism	Chapter fourth	Lecture - interro gation method	The quarterly exam in addition to daily participa tion and attendan ce

26	1	Methods used in torture	Chapter four	Lecture - interro gation method	The quarterly exam in addition to daily participa tion and attendan ce
_2 7	1	Practices followed in suppressing the Shaabani uprising	Chapter five	Lecture - interro gation method	The quarterly exam in addition to daily participa tion and attendan ce

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)	Book Of Baath Party crimes		
Main references (sources)			
Recommended books and			
references (scientific journals,			
reports)			
Electronic References, Websites			

1. Course Name:	1. Course Name:			
Artificial	Intelligence			
2. Course Code:				
3. Semester / Year:				
Aı	ınual			
4. Description Preparation Date:				
2025-20	24			
5. Available Attendance Forms:				
Act	Actual presence			
6. Number of Credit Hours (Total) / N	Number of Units (Total):			
4 hours	per week / 6 units			
7. Course administrator's name (men	tion all, if more than one name)			
Name: Dr. Zakariya A. Oraibi Email: zakaria_au@uobasrah.edu.iq				
8. Course Objectives				
	• Learning the essentials of			
Course Objectives	Artificial Intelligence. • Learning the programming			
	language of Prolog.			

• Incentivize students to use AI tools to solve problems.

9. Teaching and Learning Strategies

Strategy

• Students will lea the basics structure of AI along with different

strategies to solve problems using AI tools. In addition, they will learn to program these tools in the lab.

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Introduction to AI	In Class	Homework
2	2		Intelligent Agents	In Class	Quiz
3	2		Learning	In Class	Quiz
4	2		Logical Agents	In Class	Homework
5	2		Introduction to Prolog	Lab	Direct Implement ation
6	2		First Order Logic – Part 1	In Class	Homework
7	2		Recursive Rules in	Lab	Direct Implement

		Prolog		ation
8	2	First Order Logic - Part 2 -	In Class	Quiz
9	2	Backtracking and Queries in Prolog	Lab	Direct Implement ation
10	2	Solving Problems by Search	In Class	Homework
11	2	Arithmetic Operations in Prolog – Part 1	Lab	Direct Implement ation
12	2	Arithmetic Operations in Prolog – Part 2	Lab	Direct Implement ation
13	2	Using Python to Solve Different AI Problems	In Class	Homework
14	2	Generative Adversarial Neural Networks (GANs): Introduction	In Class	Quiz

15	2	GANs Applications	Yes	Direct Implement ation
16	2	Adversarial Search	In Class	Homework
17	2	Depth and Breadth First Search in Prolog	Lab	Direct Implement ation
18	2	A* Algorithm in Prolog	In Class	Quiz
19	2	Constrained Satisfaction Problems	Lab	Direct Implement ation
20	2	List in Prolog – Part 1	In Class	Quiz
21	2	Planning	In Class	Homework
22	2	List in Prolog – Part 2	Lab	Direct Implement ation
23	2	Uncertainty and Probabilistic Reasoning	In Class	Homework
24	2	List in Prolog – Part 3	Lab	Direct Implement

				ation
25	2	Natural Language Processing	In Class	Quiz
26	2	Learning Probabilistic Models	In Class	Quiz
27	2	Reinforcement Learning	In Class	Homework
28	2	Constraint Logic Problems (CLP) in Prolog	Lab	Direct Implement ation
29	2	Image Synthesis with GANs	Lab	
30		Image Translation with GANs	Lab	Direct Implement ation

Term Tests: 30%

Laboratory: 15%

Quizzes: 5%

Final Exam: 50%

12.Learning and Teaching Resources

Artificial Intelligence A Modern Required textbooks (curricular books, if any) Approach: 3rd Edition

	Deep Learning: by Ian Goodfellow,
	Yoshua Bengio, and
	Aaron Courville
Main references (sources)	- <i>N/A</i>
Recommended books and	- Generative Deep Learning
references (scientific journals,	- Advanced Deep Learning with Keras.
reports)	
Electronic References, Websites	- Coursera.org/
	- https://online.stanford.edu/programs/
	artificial-intelligence-professional-
	program

1. Course Name:				
Visual Programi	ming VB.NET			
2. Course Code:				
3. Semester / Year:				
Annı	ıal			
4. Description Preparation Date:				
2025-2	2024			
5. Available Attendance Forms:				
Actua	l presence			
6. Number of Credit Hours (Total) / Num	aber of Units (Total):			
4 hours per	r week / 6 units			
7. Course administrator's name (mention	all, if more than one name)			
Email: abdullaja	Abdulla J. Y. ns@uobasrah.edu.iq			
8. Course Objectives				
Master programming using VB.NET.	Learn input/output operations.			
Develop graphical applications.	Understand basic programming			
Connect applications to databases.	concepts within Windows.			
Apply object-oriented programming	Recognize the properties of			

programming files in Visual Basic
.NET.
Understand programming
language communication

9. Teaching and Learning Strategies

Interactive Lectures: Provide theoretical concepts in interactive classes.

Strategy Practical Application: Lab sessions to practice concepts taught in lectures.

Projects: Programming tasks for practical implementation, either individually or in groups.

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-4	8	Introduction to visual programming with VB.NET and its distinguishing features compared to	Introduction to visual programming	Theoretical Lectures	Daly Exam

		other programming languages.			
5-10	12	Understanding and handling messages with Basic syntax in a Windows environment	Message processing	Theoretical Lectures	Daly Exam
11-	8	Introduction to Visual Basic programming, focusing on input and output operations	What is Visual basic	Theoretical Lectures	Exam
15- 20	10	Understanding function building and loops, their components, and operations	Functions and Looping	Theoretical Lectures	Daly Exam
21- 22	4	How to manage arrays	arrays	Theoretical Lectures	Daly Exam

23- 25	6	Managing menus and resources	Menus and Resources	Theoretical Lectures	Exam
25- 30	10	Handling files and databases	Files and database	Theoretical Lectures	Daly Exam

Monthly Exams: 25 points

Applied Projects: 10 points

Lab Exercises: 15 points (weekly)

12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	 Programming Microsoft Visual Basic 2005 by Francesco Balena, 2006 Microsoft Visual Basic 2005 Step by Step by Michuel Alvarson
Recommended books and references (scientific journals, reports)	Scientific journals and reports relevant to VB.NET programming.
Electronic References, Websites	Microsoft Learn
	Coursera VB.NET Programming Specialization

1. Course Name:		
compilers		
2. Course Code:		
3. Semester / Year:		
Annual		
4. Description Preparation Date:		
2025-2024		
5. Available Attendance Forms:		
Actual presence		
6. Number of Credit Hours (Total) / Number of Units (Total):		
4 hours per week / 6 units		
7. Course administrator's name (mention all, if more than one name)		
Name: mushtaq adulmutalib hasson Email: mushtaq.husson@uobasrah.edu.iq		
8. Course Objectives		
The main purpose of the course is to teach		

Course Objectives

students the phases of the language
translator and their theoretical
understanding, then simulate each phase
practically in the laboratory.

9. Teaching and Learning Strategies

Strategy

- Providing the student with primary and secondary topics related to translator design.
- Translating topics and theoretical vocabulary related to translators into computer programs.
- Requiring the student to use computer programs related to theoretical vocabulary

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4		Introduction to compiler	Lecture	Exam
2	4		Lexical	Lecture	Exam

		analyzer		
3	4	Regular Expressions	Lecture	Exam
4	4	Operations on Languages	Lecture	Exam
5	4	Transition Diagrams	Lecture	Exam
6	4	Finite Automata NFA & DFA	Lecture	Exam
7	4	Convert RE to NFA	Lecture	Exam
8	4	Symbols Tables	Lecture	Exam
-9- 10	4	Syntax Analyzer	Lecture	Exam
11	4	Context Free Grammars	Lecture	Exam
12	4	Derivations	Lecture	Exam
13	4	Left recursion and left factoring	Lecture	Exam
14	4	Top Down	Lecture	Exam

		Parsing		
15	4	First And Follow sets	Lecture	Exam
16	4	Non recursive predictive parser 1	Lecture	Exam
17	4	recursive predictive parse 2	Lecture	Exam
18	4	Error Recovery	Lecture	Exam
19	4	Bottom Up Parsing	Lecture	Exam
20	4	Shift reduce parser	Lecture	Exam
21	4	LR parser	Lecture	Exam
22	4	Operator precedence parsing	Lecture	Exam
23	4	Semantic Analyzer	Lecture	Exam
24	4	Type Checking	Lecture	Exam

25	4	Intermediate representation	Lecture	Exam
26	4	Semantic Rules &Semantic trees	Lecture	Exam
27	4	LRN notation	Lecture	Exam
28	4	Three Address Code	Lecture	Exam
29	4	Quadruples and Triples	Lecture	Exam

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

	Compilers: Principles, Techniques,
Donning deputh a also (assertion law	and Tools
Required textbooks (curricular	(2ndEdition) Alfred V. Aho, Monica
books, if any)	S. Lam, Ravi
	Sethi,Jeffrey D. Ullman
Main references (sources)	Brown, P.J. Writing Interactive

	Compilers and Interpreters ISBN
	047127609X Useful practical advice,
	not much theory
Recommended books and	
references (scientific journals,	
reports)	
Electronic References, Websites	

1. Course Name:				
Computer architecture				
2. Course Code:				
3. Semester / Year:				
Annual				
4. Description Preparation Date:				
2025-2024				
5. Available Attendance Forms:				
Actual presence				
6. Number of Credit Hours (Total) / Number of Units (Total):				
3 hours per week / 5 units				
7. Course administrator's name (mention all, if more than one name)				
Name: Zainab Ali Khalaf				
Email: zainab.khalaf@uobasrah.edu.iq				
8. Course Objectives				
• A general introduction to computer				

	Co	ourse Objectives	 architecture, white Architectural following? The structure of Memory hierard Healer 	study of ed	ach of the
9. 7	Seaching	and Learning Strate	egies		
Strategy		 Power point Daily dutie discussion Daily tests A monthly year 	S	end of the	
10.0	Course S	tructure			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-3	3	General definition,The purpose of digital	Introduction & Overview	Lecture	Exam

		computation and introduction to computer architecture, • Organization of the central processing unit and its parts, introduction and overview Addition and			
4-9	3	subtraction algorithms Multiplication algorithms Booth multiplication algorithms An algorithm for dividing calculations on common fixed points and its design	Algorithm and design of the common fixed points arithmetic operations	Lecture	Exam

10	3		Exam	Lecture	Exam
11- 14	3	Transmission design General purpose register Arithmetic logic unit implementation unit	Execution Unit	Lecture	Exam
15- 20	3	• • Secondary memory • • Cache memory • • Virtual memory • • Main memory memory hierarchy	Memory Hierarchy	Lecture	Exam
21	3		Exam	Lecture	Exam
22-	3		Asynchronous	Lecture	Exam

30		Pipeline
11.0	Course Evaluation	
30% es	kams	
20% (a	ussignments, tests, and discussions	(s)
50% fi	nal exam	
12.L	earning and Teaching Resources	
		Fundamentals of Computer
		Organization and Architecture,
Requi	red textbooks (curricular books,	7thed. (W.Stallings), 2005
	if any)	Computer System Architecture
		3rd ed. (Morris Mano), 1992
		Essentials of Computer
	Main references (sources)	Architecture, 2nd ed. (Douglas
		Comer), CRCpress, 2017
Reco	mmended books and references	Essentials of Computer
(s	cientific journals, reports)	Architecture, 2nd ed. (Douglas
		Comer), CRCpress, 2017

Electronic References, Websites

1. Course Name:						
Computer Graphics						
2. Course Code:						
3. Semester / Year:						
Annual						
4. Description Preparation Date:						
2025-2024						
5. Available Attendance Forms:						
Actual presence						
6. Number of Credit Hours (Total) / Number of Units (Total):						
4 hours per week / 6 units						
7. Course administrator's name (mention all, if more than one name)						

Name: Nada Ali Noori Email: nada.ali@uobasrah.edu.iq

8. Course Objectives

The main goal of this course is to introduce the student to how to build and develop the basic algorithms used in drawing with a computer. An example of this is the algorithms specialized in drawing lines and circles, which are considered the basic nucleus for building and drawing video clips and

images on a computer.

1- Explain how the computer deals with programming commands for

drawing

2- How to deal with the computer screen in a coordinate way

3- Understanding the general concepts of two-dimensional and three-

dimensional coordinates

4- Learn the general applications and commands used with graphics in

general and computer

graphics in particular

5- Applying multiple drawing algorithms theoretically and applying them

practically using programming languages.

9. Teaching and Learning Strategies

Lecture strategy

Brainstorming strategy

Teamwork strategy

Discussion strategy

Evaluati on method	Learni ng metho d	Unit or subject name	Required Learning Outcomes	Hou rs	We ek
Exams	lecture s	Introduction to computer drawing and its applications	Definition of graphic drawing and its importance. Terminology used in drawing programs, in addition to learning the basic benefits and applications of computer drawing	4	1-2
Exams	lecture s	Number routines to prepare the computer for drawing	Create and understand basic drawing elements for building a drawing program.	4	3-4
Exams	lecture s	Basicfunction,ci rcles,arc,rectan gle,ellipse text,charts,sketc hes	Introducing basic drawing tools, text, symbols, graphic charts, and text writing tools.	8	5-8

Exams	lecture s	Colors in computer graphics	Colors and effects, how colors work, and working with digital colors.	8	9- 12
Exams	lecture s	Algorithms for draw straight lines	Learn font graphics algorithms DDA,Presenham	8	15- 16
Exams	Lectur es	Two Dimensional Transformation	Learn how to work with two- dimensional objects	8	17- 20
Exams	lecture s	Three Dimensional Transformation	Learn how to work with three- dimensional objects	8	21- 24
Exams	lecture s	Moving pictures	Learn to move things and make animations	8	25- 28
Exams	lecture s	Drawing Mathematical Function	Learn to draw mathematical functions	4	29- 30

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

Theoretical exam + practical exam + theoretical assignments + practical assignments + reports + end-of-year project + daily tests

Required textbooks (curricular books, if any)	-V.Scott Gordon &John Clevenger ,Computer Graphics Programming in OpenGL,2020
Main references (sources)	-Donald Hearn & M. Pauline Baker, computer Graphics second edition, Prentice Hall international Edition 1994 -Anton's opengl 4 tutorial (kindle edition) Anton gerdelan computer- graphics, 2014
Recommended books and references (scientific journals, reports)	Computer graphics: a programming approach
Electronic References, Websites	مواقع ألانتر نيت المختصة بتعليم و شرح مادة الرسم بالحاسبة YouTube videos

1. Course Name:			
Software	Engineering		
2. Course Code:			
3. Semester / Year:			
$oldsymbol{A}$	nnual		
4. Description Preparation Date:			
2025-20	024		
5. Available Attendance Forms:			
Ac	tual presence		
6. Number of Credit Hours (Total) / N	Number of Units (Total):		
3 hours	per week / 5 units		
7. Course administrator's name (men	tion all, if more than one name)		
Name: En	nan Thabet Khalid		
Email: eman.a.	lasadi@uobasrah.edu.iq		
8. Course Objectives			
Course Objectives	 What is Software Engineering, and how does it differ from Information Systems and Computer Engineering? Explanation of the components of Software Engineering. Explanation of the types of models, how to 		
	• Explanation of the types of models, how to		

- configure them, their disadvantages, and benefits.
- Ethics of software engineers and designers.
- How to manage and work on systems.
- Knowing how to configure a software system.
- The process of configuring requirements and linking them to the system.
- Understanding the process of designing the system interface and linking it to processing and requirements.
- Understanding how to develop an exist system and make changes to it.

9. Teaching and Learning Strategies

Strateg	y
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Wee k	Hour s	Required Learning Outcomes	Unit or subject name	Learning method	Evaluatio n method
1 2 3 4	2 hours every week	Understandi ng the Fundament als Of software	software and What is the difference between software engineering and computer science software process	Laptop, Screen to present the lecture slides, White board for elaboration	Interactiv e discussio ns during lecture, Every week quiz, and

6	engineering	,Code of Ethics	3-to-
	, also, the	Computer-Based	4exams
7	the concepts	System Engineering	througho
	of	and Systems	ut
	Different	Emergent ,Engineering properties	the year
8	Methods are	p. sps	
9	Utilized to	Reliability	
10	Develop	System ,relationships components and	
11	software Projects	Component types	
		Software Processes,	
		Generic software	
		process models	
12		Formal systems	
13		Extreme ,development	
		programming, Spiral	
14		development, Spiral	
		model of the software	
15		The process,	
		requirements	
		engineering process,	
		System evolution,	
		Automated process	
		support (CASE), Case	

	technology, CASE	
16	classification	
	3	
17		
10		
18	First Semester Exam	
19		
	Project Managements,	
20	Software project	
	management, Software	
21	management	
	distinctions,	
22		
	Project planning	
23	process, Project plan	
	structure, Activity	
24	organization,	
	Bar charts and activity	
25	networks, Task	
	durations and	
26	dependencies, Activity	
	network, Activity	
	timeline, Staff	
	allocation	
25		
27	Software	
20	Requirements, Require	
28	ments engineering,	
	What is a requirement	

29	Non-functional		
	requirement types,		
	Requirements		
	measures, User		
	requirements,		
	Problems with natural		
	language,		
	,Requirement		
	Requirements		
	Engineering Processes,		
	Requirements		
	Engineering Processes,		
	The requirements		
	engineering process,		
	Feasibility studies		
	'	1	

10 marks- regular Quizzes all over the year.

5 marks attendance and daily interaction,

Exam1 out of 45

Exam2 out of 45

Project out of 45

books, if any)

12.Learning and Teaching Resources

Required textbooks (curricular • Soft

• Software Engineering

eighth

Main references (sources)	edition Ian Sommerville, 2004 ,
Recommended books and	2008, 2014, and 2017
references (scientific journals,	• Classical and Object-Oriented
reports)	Software Engineering 3rd Edition
Electronic References, Websites	• R. Pressman and D. Lnce ,
	"Software Engineering "
	Practitioner approach 4TH
	European ,Mergraw Hill 1997.
	• Somerville, "Software Engineering
	" 5 TH , Addison Wesley 1996

1. Course Name:
Teaching curricula and methods
2. Course Code:
3. Semester / Year:
Annual
4. Description Preparation Date:
2025-2024
5. Available Attendance Forms:
Actual presence
6. Number of Credit Hours (Total) / Number of Units (Total):
2 hours per week / 4 units
7. Course administrator's name (mention all, if more than one name)
Name: Zainab Ali Abboud
Email: zzn.ali@uobasrah.edu.iq
8. Course Objectives
Course Objectives:

Explaining the concept of teaching methods, their importance and the extent of their impact preparing the student teacher's personality and how to use appropriate methods to deliver the taking material, into account the chronological individual and age differences of the students.

- For the student to become familiar with the concept of the subject matter, curricula and general teaching methods
- That the student be able to understand the concept of science and education and what is the appropriate method for each teaching method

9. Teaching and Learning Strategies

Strategy

- The learning strategy is based on students' participation with the teacher in presenting many questions
- Important psychological, educational and academic information about appropriate curricula and teaching methods for learning and discussing them directly with students.
- Expressing their opinions about this information and how important it is to them.

• Writing reports on the main topics of the curriculum

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1			- The nature of science		
2			-Learning processes		
3	2		-Scientific thinking skills	Lecture Dialogue and discussion	Exam
4			-Components of science		
5			_ Objectives of science		

6	-Learning theories	
7	-The concept of the curriculum and its origins	
8	-The old curriculum	
9	_The modern curriculum	
10	-Curriculum elements	
11	_Types of curriculum	
12	-The official curriculum	

13	Childhood (early)	
14	-The hidden curriculum	
15	- Curriculum organisations	
16	_Educational objectives in teaching the subject	
17	_General goals	
18	_Special goals	
19	_Behavioral goals	

20	_Classification of educational objectives	
21	_A model of a typical teaching plan	
22	_Criteria for choosing the	
	teaching method	
23	-Educational applications of the curriculum	
24	-Strategies for teaching the subject	

25	-General
	characteristics
	of a good
	teaching
	method
26	-Fundamentals
20	of good
	teaching
27	Characteristics
	of a successful
	teacher
28	
	- Types of
	teaching
	methods
	1. Course
	evaluation
28	Distribution of
	the score out
	of 100

29	according to
29	the tasks
	assigned to the
	student, such
	as:
	daily setting,
	Oral, monthly
	or written tests
	and
	reportsetc

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

Teaching curricula and methods.
Majid Ayoub Al-Qasi, 2018, first
edition
Amjad Publishing and Printing House
Modern curricula and teaching
methods, Mohsen Ali Attia, 2013
Dar Al-Manhaj for Publishing and
Distribution

Recommended books and	Modern curricula and teaching
references (scientific journals,	methods, Basra Research Journal
reports)	
Electronic References, Websites	

1. Course Name:			
Counseling and mental health			
2. Course Code:			
3. Semester / Year:			
Annual			
4. Description Preparation Date:			
2025-2024			
5. Available Attendance Forms:			
Actual presence			
6. Number of Credit Hours (Total) / Number of Units (Total):			
2 hours per week / 4 units			
7. Course administrator's name (mention all, if more than one name)			
Name: Nour Abbas Kazem			
Email: noor.kadhum@uobasrah.edu.iq			
8. Course Objectives			
• The computer student learns the			

Course Objectives:
The student remembers
the information given
in the course
The student
understands the course
topics and related
objectives

importance of guidance

- Psychological and mental health in daily life
- How to employ this knowledge in confronting situations
- Daily life in the field of education and family
- It makes College of Education students feel valuable and important
- Counseling and mental health in their dealings with school students after graduation and practicing their specializations
- As teachers in primary, middle and middle schools

9. Teaching and Learning Strategies

Strategy

- The student should be able to apply
 what he has learned to solve
 problems in the practical field
- The student should be able to analyze
 and arrange information to benefit

from it in solving problems to obtain correct results

- The student understands himself, his environment, and how to deal with others
- The student must have ideas about
 the course material and know how to
 devise appropriate solutions to it

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
2+1	2	Introducing students to the meaning of mental health, introducing them to the signs that indicate that an individual	Educational guidance Justifications and importance of educational guidance in schools Foundations of guidance and	In- person lectures	Exams, daily interaction and attendance

mental counseling health, and introducing them to the goals of Educational mental guidance	
goals of Educational	
health and curricula	
its importance. Characteristics of the educational guide 7+6 Indicative methods	
1- The role of the teacher in the guidance process 2- Problems that occur in schools and the role of guidance in	

	solving them	
	3- Academic	
	delay and	
	bullying	
	among	
11+10	students	
11+10		
	1- The role of	
	the teacher in	
	the counseling	
	process	
	2- Problems	
	that occur in	
	schools and	
13+12	the role of	
	guidance in	
	solving them	
	3- Academic	
	delay	
	4- Bullying	
14-	among	
17	students	
	1- Dropping	

	out of school
	2- Cheating in
	exams
	3- Theft
	4- Choose the
	appropriate
	specialization
	5- Exam
	anxiety
	1- Mental
18-	health
21	2-Mental
	health goals
	3-The
	importance of
	mental health
	in all areas of
	life
	4- Concepts
	related to
	mental health

22-	1-
25	Manifestations
	of
	psychological
	compatibility
	2- Types of
	psychological
	adjustment
	3- Mental
26-	health and
27	adaptation
	4- School and
	mental health
	5-
	Manifestations
	of teacher
	burnout
28-	1- Neurosis
30	2- Anxiety
30	2- Anxiety
11.Course l	Evaluation
	Mid-year exams
	Daily attendance

Discussion and dialogue

Second month exam

	Principles of psychological
	counseling for counselors and
	specialists (2008) Muhammad
Required textbooks (curricular books, if any)	Ahmad Khaddam, Mashaqba -
	Amman
	Principles of guidance and
	psychological counseling (2010)
	Sami Muhammad Melhem,
	Amman_Dar Al Masirah
	1- Personality Psychology 1990,
	Hana Aziz Dawoud, Nadhim
	Hashim Al-Obaidi, University of
	Baghdad
Main references (sources)	2- Psychological counseling and
	educational guidance 1991, Mustaf
	Mahmoud Al-Imam, Anwar
	Hussein Abdel Rahman, University
	of Baghdad

	3- Fundamentals of Psychology
	1982, Ahmed Ezzat Rajeh,
	Alexandria
Recommended books and references	1- Psychological Guidance and
(scientific journals, reports)	Counseling 2005, Hamed Abdel
	Salam Zahrani, Cairo and the
	World of Books
	2- Reference in Mental Health 2009,
	Adeeb Muhammad Al-Khalidi,
	Baghdad, Ababil Office
Electronic References, Websites	Psychology websites and scientific
	societies

1. Course Name:				
	Data Security			
2. Course Code:				
3. Semester / Year:				
	Annual			
4. Description Preparation	n Date:			
	2025-2024			
5. Available Attendance F	Forms:			
	Actual presence			
6. Number of Credit Hour	rs (Total) / Number of Units (Total):			
	4 hours per week / 6 units			
7. Course administrator's name (mention all, if more than one name)				
I	Name: Prof. Dr. Ali Adil Yassin Email: Ali. Yassin@uobasrah.edu.iq			
8. Course Objectives				
Course Objectives	In this course you will learn the inner workings of cryptographic systems and how to use them			

properly in real-world applications.

- Describe some basic concepts of encryption
- Describe cryptography and its uses in cybersecurity
- Description of hash and digital signature
- Describe the concept and use of digital certificates
- Teaching students the basic concepts of cybersecurity, best practices, and c.
- Analytical Skills Cryptography learners need a strong understanding of mathematical principles, such as linear algebra, number theory, and combinatorics. Learners apply these principles when designing and decrypting strong cryptographic systems

9. Teaching and Learning Strategies

Strategy

- The Data Security courses listed to learn student in protecting sensitive information. They cover topics like cryptography, risk management, and encryption technologies, essential for safeguarding data integrity.
- Giving the student an opportunity to explain a small part of the class to his classmates to enhance his self-confidence.
- We depend on theoretical lectures as well as lab of data security.
- Providing the student with primary and secondary

topics related to data security.

- Programming theoretical topics related to data security into computer programs.
- Requiring the student to use JavaScript programs related to theoretical vocabulary.

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 - 2	6	Practical exercise	 Introduction to cryptography Private-key encryption Principle of Kerchhoff Scenarios of attacks Introduction to public key 	Lectures (Theoretical - Practical)	conducting the Midterm exam + class participation + grading a number of in- class assignments + conducting a practical exam
3 - 4	6	Practical exercise	 Application of cryptography Classical ciphers: Caeser, Shift cipher, monoalphabetic cipher, Vigenere cipher, auto key cipher Hill cipher Playfair cipher 	Lectures (Theoretical +Practical)	conducting the Midterm exam + class participation + grading a number of in- class assignments + conducting a practical exam
5 - 7	6	Practical exercise	• Private-key cryptosystems	Lectures (Theoretical +Practical	conducting the Midterm exam + class participation

			 Permutation-substitution networks Feistel networks Data encryption standard (DES) DES structur)	+ grading a number of in- class assignments + conducting a practical exam
8 - 9	6	Practical exercise	 Advanced Encryption Standard (AES) Work of AES Security of AES 	Lectures (Theoretical +Practical)	conducting the Midterm exam + class participation + grading a number of in- class assignments + conducting a practical exam
10 - 12	6	Practical exercise	Message authentication codes And it's applications	Lectures (Theoretical +Practical)	conducting the Midterm exam + class participation + grading a number of in- class assignments + conducting a practical exam
13 - 15	6	Practical exercise	• Applied hash functions like SHA-1, SHA-2	Lectures (Theoretical +Practical)	conducting the Midterm exam + class participation + grading a number of in- class assignments + conducting a practical exam
16 - 18	6	Practical exercise	 Public key cryptosystems Hybrid encryption RSA cipher 	Lectures (Theoretical +Practical)	conducting the Midterm exam + class participation + grading a number of in- class assignments + conducting a practical exam

19 - 21	6	Practical exercise	 Digital signature schemes Security of digital signature schemes RSA digital signature 	Lectures (Theoretical +Practical)	conducting the Midterm exam + class participation + grading a number of in- class assignments + conducting a practical exam
22 - 24	6	Practical exercise	 Schnorr digital signature Identification protocols 	Lectures (Theoretical +Practical)	conducting the Midterm exam + class participation + grading a number of in- class assignments + conducting a practical exam
24 - 26	6	Practical exercise	 Secure authentication protocols Mutual authentication 	Lectures (Theoretical +Practical)	conducting the Midterm exam + class participation + grading a number of in- class assignments + conducting a practical exam
27- 30	6	Practical exercise	 Asymmetric Encryption Methods RC4 algorithm 	Lectures (Theoretical +Practical)	conducting the Midterm exam + class participation + grading a number of in- class assignments + conducting a practical exam

conducting the midterm exam and additional e exam: 20

class participation: 5

grading a number of in-class assignments:5

conducting a practical exam and Lab. : 15

Required textbooks (curricular books, if any)	A Handbook of Applied Cryptography by Alfred J. Menezes, Paul C. Van Oorschot and Scott A. Vanstone, CRC Press Series on Discrete Mathematics and Its Applications Oded Goldreich , Springer-Verlag 1998 M, odern Cryptography, Probabilistic Proofs and Pseudorandomnes
Main references (sources)	cryptography: theory and practice, 4th edition, Douglas r. Stinson, Maura B. Paterson, CRC press, 2019
Recommended books and references (scientific journals, reports)	We recommend relying in the future on the book of the late Professor Dr. Iyad Ibrahim Abdel Sada (may God have mercy on him) as a primary reference, especially since he has modern scientific material in the Arabic language in the field of information security
13.Electronic References, Websites	https://www.ccs.neu.edu/home/wichs/class/crypto- fall15/index.html https://faculty.uobasrah.edu.iq/faculty/360/teaching

1. Course Name:	
C	Communication and Computer Networks
2. Course Code:	
3. Semester / Year:	
	Annual
4. Description Preparation	uration Date:
	2025-2024
5. Available Attenda	nce Forms:
	Actual presence
6. Number of Credit	Hours (Total) / Number of Units (Total):
	4 hours per week / 6 units
7. Course administr	ator's name (mention all, if more than one name)
	Name: Husam Aakef Abdulmalik Email: hussam.akif@uobasrah.edu.iq
8. Course Objectives	
Course Objectives	 -Studying the basic concepts of communications and computer networks in terms of their types, devices, methods of connecting them, and the technology used in them. -Studying the OSI model gives the student an idea of the basic stages of the data transmission

process in communications systems.

- Study some TCP/IP protocols
- Study IP Addressing, Subnetting and
 Routing
- Study methods for detecting errors.
- - Studying the types of signals in communications systems, Digital Signals and Analog Signals

9. Teaching and Learning Strategies

Strategy

- Presentation,
- practical training
- and discussion

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	4	Learning the basics of networks, their devices and types	Introduction to Data Communication	Lectures+practical experiments	
3-4	4	Learning the types and methods of connecting networks	Networks Topology	Lectures+practica l experiments	Discussio n + Exams

5-7	4	Understanding the mechanism of sending data through the OSI layered model	Layered Architecture, The OSI Model (7 Layers)	Lectures+practical experiments	Discussion + Exams
8-10	4	Know the most important protocols operating in each layer and the function of each	The TCP/IP Protocol Suite, SMTP, HTTP, FTP, NFS, SNMP, DNS,DHCP, MIME, Telnet, RPC, iSCSI, TCP, UDP, IP, ICMP, ARP, RARP, CSMA/CD,	Lectures+practical experiments	Discussion + Exams
11-12	4	Lerning network layer functions and addressing using IP addresses	Network Layer and IP Addressing	Lectures+practical experiments	Discussion + Exams
13-14	4	Knowing the mechanism of dividing the network into subnetworks	Subnetting	Lectures+practical experiments	Discussion + Exams
15-16	4	Understanding routing methods and protocols and	Routing and routing table	Lectures+practical experiments	Discussion + Exams

		how routers work			
17	4	Learning the functions of the data link layer	Data Link Layer	Lectures+practical experiments	Discussion + Exams
18-20	4	Learning the types of errors, ways to detect them, and some ways to correct them	Error detection and correction , Type of Errors	Lectures+practical experiments	Discussion + Exams
21	4	Learning of the functions of the physical layer	Physical Layer	Lectures+practical experiments	Discussion + Exams
22-23	4	Learning the types of digital and analogue signals and the difference between them	Analog and Digital Signals	Lectures+practical experiments	Discussion + Exams
24-25	4	Learning digital transmission and methods of converting data into digital signals	Digital Transmission, Encoding (Digital- to_Digital , Analog-to- Digital)	Lectures+practical experiments	Discussion + Exams
26-27	4	Learning analogue transmission and methods	Analog Transmission, Encoding (Digital-	Lectures+practical experiments	Discussion + Exams

	of converting data into analogue signals	to_Analog , Analog-to- Analog)		
30-28 4	Learning multiplexes, their types, and how they work	Multiplexing	Lectures+practical experiments	Discussion + Exams

Daily exams 10%

Monthly theoretical exams 70%

Monthly practical exams 20%

Required textbooks (curricular books, if any)	Data Communication and Networking, by Behrouz A. Forouzan, 2003
Main references (sources)	Computer Networks, by Andrew S. Tanenbaum, 2003
Recommended books and references (scientific journals, reports)	CCNA, CCNP Courses
Electronic References, Websites	Cisco Networking Academy Courses

1. Course Name:		
Web Design		
2. Course Code:		
3. Semester / Year:		
Annual		
4. Description Preparation Date:		
2025-2024		
5. Available Attendance Forms:		
Actual presenc	e	
6. Number of Credit Hours (Total) / Number of	Units (Total):	
2 hours per week / 4 units		
7. Course administrator's name (mention all, if	more than one name)	
Name: Dr.Mohammed Abdulridha Hussain Email: Mohammed.abdulridha@uobasrah.edu.iq		
8. Course Objectives		
Course Objectives skills a	ng students programming nd	

	tools for web design and Internet programming
9. Teaching and Learning Strateg	ries
Strategy	Client-side script (HTML, CSS,
	Java script)
	Server-side script (PHP) and
	MySQL database

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1		Introduction Internet Programming	Introduction Internet Programming	Lecture / LAB	Exam
2		HTML	HTML	Lecture / LAB	Exam
3		HTML Table	HTML Table	Lecture / LAB	Exam
4		HTML Form	HTML Form	Lecture / LAB	Exam
5		HTML Frame	HTML Frame	Lecture / LAB	Exam

6	CSS	CSS	Lecture / LAB	Exam
7	Positioning Elements	Positioning Elements	Lecture / LAB	Exam
8	Backgrounds	Backgrounds	Lecture / LAB	Exam
9	Element Dimensions and Text Flow	Element Dimensions and Text Flow	Lecture / LAB	Exam
10	Menu	Menu	Lecture / LAB	Exam
11	Javascript	Javascript	Lecture / LAB	Exam
12	Variables and Arithmetic Expressions	Variables and Arithmetic Expressions	Lecture / LAB	Exam
13	Control Structures Functions	Control Structures Functions	Lecture / LAB	Exam
14	Arrays	Arrays	Lecture / LAB	Exam

15	Examples	Examples	Lecture / LAB	Exam
22	PHP	PHP	Lecture / LAB	Exam
23	Control Structures PHP String Functions	Control Structures PHP String Functions	Lecture / LAB	Exam
24	MySQL and PHP	MySQL and PHP	Lecture / LAB	Exam
25	Insert Data	Insert Data	Lecture / LAB	Exam
26	Update Data	Update Data	Lecture / LAB	Exam
27	Delete Data	Delete Data	Lecture / LAB	Exam
28	Select Data	Select Data	Lecture / LAB	Exam
29	Search and retrieve	Search and retrieve	Lecture / LAB	Exam
30	Session Control	Session Control	Lecture / LAB	Exam

11.Course Evaluation	
Term Tests (20%)	
Laboratory (15%)	
Quizzes (15%)	
Final Exam (50%)	
12.Learning and Teaching Reso	ources
Required textbooks	Learning PHP, MySQL & JavaScript
(curricular books, if any)	with jQuery, CSS & HTML5,
	4th ed. (Robin Nixon), OReilly, 2015
	PHP and MySQL Web Development,
	(Luke Welling and Laura
	Thomson), Sams, 2001
Main references (sources)	
Recommended books and	
references (scientific journals,	
reports)	
Electronic References,	
Websites	

ata Mining
nual
024
ual presence
mber of Units (Total):
per week / 4 units
on all, if more than one name)
ustafa Salah Khalefa khalefa@uobasrah.edu.iq
• Give an overview of data mining,
its applications, basic issues, and tasks.
• Identifying the important tasks of

- Concepts of data mining.
- The student knows the types of databases and how to process their data.
- Increase the student's knowledge of data mining tasks and techniques.
- Classification methods.

descriptive and predictive data mining and how to apply them practically.

• Types of databases and how to save data

9. Teaching and Learning Strategies

Strategy

- Presentation of theoretical material, whether through dialogue, interaction, or display on a display screen.
- Assignments and exercises.
- Assigning the student to prepare weekly reports.

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
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1	2	Introduction to Data mining	Session, Lecture	Exam
2	2	Knowing data an types of		Exam
3	2	Measure of Similarity of Dat	Lecture	Exam
4	2	Association Rule and A Prior Algorithm	Lecture	Exam
5	2	Frequent Pattern	Lecture	Exam
6	2	Data Warehouse ((OLAP	Lecture	Exam
7	2	Data Clea	^{anii} Lecture	Exam
8	2	Different betwee Data mining and Data Base	T .	Exam
9	2	Exam-1	Lecture	Exam
10	2	Data Clustering	Lecture	Exam
11	2	K-Means Clustering	Lecture	Exam
12	2	Exercises on Clustering	Lecture	Exam
13	2	Classifications	Lecture	Exam
14	2	Bays Classifier	Lecture	Exam
15	2	Regressions	Lecture	Exam
16	2	Different betwee Clustering and		Exam

				1
		Classification		
17	2			
1/		Exam-2		
		23.W.M. 2		
18	2		Lecture	Exam
	_		Loctaro	2714111
		Text Data Mining		
19	2		Lecture	Exam
		Bagging and		
		Boosting	- -	-
		200811119	Lecture	Exam
20	2	Dada Mining		
	_	Data Mining		
		World Wide Web		
21	2			
			Lecture	Exam
		Social Media Data	Eccurc	LAUII
		Mining		
22	2	wining	Lecture	Exam
		Integration in Data		
23-	2	Mining		
28			Lecture	Exam
		Visualizations	Loctaro	2714111
	2	Applications of	Lecture	
29				
		Data Mining		
	2	Exam-3		
30	_			
30				

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

	Data Mining Concepts and Techniques
Required textbooks (curricular	Third Edition,
books, if any)	Jiawei Han Micheline Kamber Jian Pei,
	Elsevier, 2011

Main references (sources)	 Jiawei Han, Micheline Kamber, Jian Pei, Data Mining: Concepts and Techniques, Third Edition, Morgan Kaufmann Publishers, 2012. Charu C. Aggarwal, Data Mining: The Textbook, Springer, 2015.
Recommended books and	
references (scientific journals,	
reports)	
Electronic References, Websites	

1. Course Name:			
Operati	ng System		
2. Course Code:			
3. Semester / Year:			
An	nual		
4. Description Preparation Date:			
2025	-2024		
5. Available Attendance Forms:			
Acti	ual presence		
6. Number of Credit Hours (Total) / No	umber of Units (Total):		
4 hours p	per week / 6 units		
7. Course administrator's name (menti	ion all, if more than one name)		
Name: Khawla Hussein Ali Email: khawla.ali@uobasrah.edu.iq			
8. Course Objectives			
Course Objectives	How OS provides the interface between hardware and applications Theoretical aspects of OS and		

practical using JAVA language

9. Teaching and Learning Strategies

Strategy

One of the best ways to teach operating system concepts and skills is to use a blended approach that combines theory and practice. Theory helps students to grasp the fundamental concepts and principles of operating systems, such as their functions, structures, components, and design goals.

Week	Ho urs	Required Learning Outcomes	Unit or subject name	Learnin g method	Evaluatio n method
1- 2	4	Presenta tion	 Introduction & Background Introduction to operating system, Application software, System software, Machine language, Microprogramming, Physical devices History of Operating Systems, Introduction to Unix, MS-DOS and Windows 	Atten danc e	Exam

		Operating System Structure	
		• Process management,	
3-		Memory management, File	
7		management, I/O system	
		management, Secondary	
		storage management,	
		Networking	
		System protection, Operating	
		system services	
		• OS layered approach, OS/2	
		layer structure, Virtual	
		machines	
		• System design goals,	
7-	D	Mechanisms and policies,	
11	Presenta tion	Operating system	
	tion	implementation, System	
		generation	
		Process Concepts	
		• The process concept,	
		Program vs process	
		Process creation, Process	
		control block, Process table,	
		Shell, Operation on processes	
		Kernel/kernel mode	
		• System calls, Types of	
		systems calls	
		• Interrupts, Interrupt	

	processing, Types of
	Interrupts
12	Memory Management
12	• Memory, memory hierarchy,
15	Process loading and
	swapping, Memory
	management, Memory
	allocation methods, Single
	partition allocation
	Storage management
	strategies, Fetch strategies,
	Placement strategies,
	Replacement strategies,
	Variable partition with
	compaction,
	Non contiguous memory
15	allocation: Paging vs
_	Segmentation, Simple paging,
18	Implementation of paging,
	Simple segmentation,
	Segment addressing,
	Virtual Memory
	• Virtual memory, Mechanism
	of virtual memory, Address
	translation, Page fault,
	Page replacement, Page

	replacement algorithm, FIFO,
	Belady's anomaly, Optimal
	LRU, Random page
	replacement, LFU, MFU,
	Non-used recently page
	replacement algorithm
	• Paging Mechanism,
21	Additional techniques,
-	Memory protection and
22	
	sharing, MS-DOS Memory
	management, Windows
	memory management, Unix
	memory management
	Process Management
	• Context Switch, Process
22	states, Process states
-	4transitions, Process life
24	cycle, Five state process
	model, Unix process state
	transition diagram
	Scheduler, Scheduling
	algorithm, Objectives of
	Scheduling, Criteria for
	scheduling, CPU-bound vs
24	I/O-bound processes
44	Types of Scheduling, Process
26	scheduling queues
26	7

	• FCFS, SJF, Priority, Round	
	Robin, Multilevel feedback	
	queues scheduling	
	BSD Unix scheduling,	
	Multiple processor scheduling	
	Threads, Thread support	
	Solaris	
27	Threads & Multitasking	
-	• Multitasking, Threads	
28	Types of threads, Kernel	
	threads, User level threads	
	Multithreading model, One to	
	One Model, Many to One	
	Model, Many to Many Model	
	• Solaris 2 threads, Windows	
	2000 threads, Linux threads,	
	Java threads	
28	Concurrent Processes	
-	• Concurrent processes,	
29	Resources, Race condition	
	• Critical section, Mutual	
	Exclusion, Deadlock	
	Inter-process communication	
20	• Pipes, Semaphores, use of	
30	semaphore for critical section	

problem, Monitors, Signals,	
Message passing, use of	
messages for synchronization,	
Shared memory, Object	
linking & embedding	

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	Operating system concepts by
books, if any)	Abraham S., Peter B., Grec G.
Main references (sources)	
Recommended books and references	
(scientific journals, reports)	
Electronic References, Websites	Operating system principles
	Modern operating systems

1. Course Name:				
Measurement and evaluation				
2. Course Code:				
3. Semester / Year:				
Annual				
4. Description Preparation Date:				
2025-2024				
5. Available Attendance Forms:				
Actual presence				
6. Number of Credit Hours (Total) / Number of Units (Total):				
2 hours per week / 4 units				
7. Course administrator's name (mention all, if more than one name)				
Name: Maha saddam abd				
Email: maha.saddam@uobasrah.edu.iq				
8. Course Objectives				
• The student should distinguish				

	Cour	rse Objectives	 bureaucrati That the solution has learned students That the solution 	c theory student applie ed when dec	aling with
9. Tea	ching and l	Learning Strategies	,		
Strategy			 Educational concept plant Brainstorm Education Series 	nning. sing strategy	Ollaborative 3- Discussion
10.Cou	erse Structu	re			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2hours			1-	Weekly

The concept of

Explainin

1-Learn about

2

2hours

3	2hours	the concept of	measurement and	The	monthly
4	2hours	measurement	evaluation		daily,
5	2hours	and		Scientific	written
6	2hours	evaluation	Types of metrics	Material	exams,
7	2hours	2- Identify		in detail	and
8	2hours	the types of		in	the
9	2hours	standards	Generalprinciples	a lecture.	end
10	2hours	3- Identify	in evaluation	2- Writin	-of-year
11	2hours	the general		g reports	exam
12	2hours	principles of	Evaluation in	on main	
13	2hours	evaluation	the	topics	
14	2hours	4- Get to	educational		
15	2hours	know the	process		
		calendar in			
		Educational	Measurement		
		process	and		
		4- Identify	evaluation		
		the purposes	purposes		
		of			
		measurement	Theimportance		
		and	of measurement		
		evaluation	and evaluation		
		5-			
		Recognizing	Achievement		
		the	tests		
		importance of			
		measurement	Oral and essay		
		and			

		evaluation	Objective tests	
		6- Learn		
		about	Performance	
		achievement	tests	
		tests		
		7-Learn	Building	
		about the oral	achievement tests	
Offday		test and		
16	2hours	And the pans	Steps to build the	
17	2hours	8-Learning	test	
18	2hours	about tests		
19	2hours	Objectivity	First semester	
20	2hours	9- Getting to	exam	
21	2hours	know the tests		
22	2hours		Test function	
23	2hours	Performativity		
24	2hours	10- Identify	Determine	
25	2hours	the building	teaching	
26	2hours	Achievement	objectives	
27	2hours	tests		
28	2hours	11- Identify	Specifications	
29	2hours	the steps of	table numbers	
30	2hours	building		
		the test	Mid-year exam	
		12- Identify		
		the selection		
		function		
		13- Identify		

the definition		
Teaching		
objectives		
14- Identify		
the numbers		
in		
Table A		
	Build a	
Specifications	specifications	
	table	
16-Learn		
about	Characteristics	
building a	of a good test	
specifications		
table	Honesty and its	
17- Identify	types	
the		
characteristics	Test stability	
the test		
18-	Methods for	
Recognizing	calculating	
honesty	stability	
19- Identify		
stability	exam	
20- Learn	REPETITON	
about		
calculation	Equivalent	
methods	images	

Comminter		T
Consistency	TT 10 11.	
21-	Half split	
Recognizing	method	
re		
the test	Constantly	
22- Image	influencing	
recognition	factors	
Equivalent		
23- Identify	statistical	
segmentation	analysis	
Midterm		
24- Identify	Test methods	
the		
influencing	Second semester	
factors	exam	
With		
consistency	Observation and	
25-Learn	its types	
about analysis		
specialist		
26-		
Identifying	Ladders	
the means	of appreciation	
Testing		
27- Identify	Deliver the	
the note	descriptive	
And its types	statement	
28-Learn		

about the	End of year	
rating lists	exams	
29-Learn		
about the		
ladders of		
appreciation		
30-Learn		
about the		
statement		
ladder		
Descriptive		

Distribution is as follows: 25 marks for monthly and daily exams for the first semester. 25 marks for monthly and daily exams for the second semester. 50 marks for final exams

12.Learning and Teaching Resources			
	Abu Alam, please Mahmoud (1987):		
Required textbooks (curricular	Measurement and evaluation of		
books, if any)	collection,		
	Dar Al Qanq		
	Al-Zaher, Zakaria Mohamed and		
Main references (sources)	Others) 1999		
	: The principles of		

	measurement and
	evaluation in education, i
	1, Culture
	Library for Publishing and
	Distribution,
	Amman
Recommended books and	Al-Zaher, Zakaria Mohamed and
references (scientific journals,	Others) 1999
reports)	: The principles of
	measurement and
	evaluation in education, i
	1, Culture
	Library for Publishing and
	Distribution,
	Amman
lectronic References, Websites	

1. Course Name: :						
Practical education						
2. Course Code:						
3. Semester / Year:						
	Annual					
4. Description Preparation Date:						
202	25-2024					
5. Available Attendance Forms:						
	Actual presence					
6. Number of Credit Hours (Total	l) / Number of Units (Total):					
2 he	ours per week / 4 units					
7. Course administrator's name (n	mention all, if more than one name)					
	ame: Zainab Hamza Abbas t.067@avicenna.uobasrah.edu.iq					
8. Course Objectives						
Allow the applied student to	Course objectives					
apply the theories and principles	Explaining the importance of the					
of learning that he has acquired student's practice applying the theories						

throughout his studies in order to prove his ability to perform his educational role in the educational field.

* The applied student acquires
skills related to his field of
specialization and becomes
acquainted with a set of models of
general teaching methods

* Developing the observation

skills of the applied student

and principles of classroom education

Practicing student skills on a group of

students

9. Teaching and Learning Strategies

Strategy

Dialogueand discussion

The learning strategy involves the students' participation with the teacher in presenting many questions

The ideas, skills and theories that the

student must practice in a realistic

On the students in order to make his work successful in the field of application, and creating a mini application for students

that helps them remove the tensions that
they experience in the field of practical
education.

Week	H ou rs	Required Learning Outcomes	Unit or subject name	Learning method	Evaluatio n method
the first	2	Students discuss and express their opinions	The concept of practical education	Dialogue and discussio n	Share
the seco nd	2	Students discuss and express their opinions	The purpose of practical education	Dialogue and discussio n	Share
the third	2	Students discuss and express their opinions	The problems and difficulties faced Applied student	Dialogue and discussio n	Share

The fourt h	2	Students discuss and express their opinions	Rules and ethics of the teaching profession	Dialogue and discussio n	-
The fifth	2	Students discuss and express their opinions	Sources of ethics in the teaching profession	Dialogue and discussio n	-
The sexth	2	Students discuss and express their opinions	Ethical values, ethics and the principles derived from them	Dialogue and discussio n	-
Seve nth	2	Students discuss and express their opinions	Student responsibilities and duties Applied	Dialogue and discussio n	-
The eight	2	Students discuss and	Good teaching	Dialogue and	-

		express their opinions		discussio n	
The Nint h	2	Students discuss and express their opinions	The concept of classroom management	Dialogue and discussio n	-
The tenth	2	Students discuss and express their opinions	Objectives and importance of classroom management	Dialogue and discussio n	-
The eleve nth	2	Students discuss and express their opinionss	Classroom problems and ways to address them	Dialogue and discussio n	-
The twelf ths	2	Students discuss and express their opinions	Factors affecting management Safiya	Dialogue and discussio n	-

The thirte enth	2	Students discuss and express their opinions	Ingredients for teacher success Class management	Dialogue and discussio n	-
Four teent h	2	Students discuss and express their opinions	Class questions and their purpose	Dialogue and discussio n	-
Fifte enth	2	Students discuss and express their opinions	View and apply	Dialogue and discussio n	-

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	Mandatory practical education
books, if any)	

Main references (sources)	
	The Holy Qur'an - the Noble Prophet's
	Sunnah
Recommended books and	Practical Education / Tawfiq Marhi
references (scientific journals,	
reports)	
Electronic References, Websites	
	Plateforme pédagogique de l'Université
	Sétif2
	https://cte.univ-setif2.dz > moodle > mod >
	book > view
	book > view