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**2025**

# **Academic Program and Course**



## Academic Program Description Form

University Name: University of Maysan

College/Institute: College of Education

Scientific Department: Department of Computers

Academic or Professional Program Title: Bachelor of Education in Computers

Final Degree Title: Bachelor of Science in Computers

Academic System: Annual

Description Date: 1/2025

Signature:

Name of Academic Assistant:

Rana Sabeen Abboud

Date:

Signature:

Name of Department Head:

L. Abbas Abdul-Hussein Haddad

Date:

2024-2025

File reviewed by the Quality Assurance and University Performance Division

Name of Director of the Quality Assurance

and University Performance Division: Sami Hettab

Date:

Signature:

Dean's approval

Assoc. Prof. Buraq T. Sh. AL-Musawi  
Applied Physics.



<b>Program vision</b>	<b>.1</b>
<p>The department should be a distinguished academic institution in terms of its professors, students, educational curricula, and scientific research, in light of the available capabilities. The tremendous applications, uses and developments that have become a direct challenge that we must keep pace with and develop with, whether through a generation of programming teachers and designers with experience in programming languages and at a high level, or by participating in building good information systems or modifying those systems to suit our needs, as well as inventing new applications, good work and mutual understanding, generation after generation, through balanced education and adherence to the principle of public service.</p>	

<b>Program message</b>	<b>.2</b>
<p>Contributing to achieving the college's goals in education and research to serve the community in the field of information technology in general. By providing and valuing information resources, offering various knowledge, interactive tools, and scientific training, the Computer Science Department seeks to be a leader in the educational, pedagogical, academic, and research fields, in order to be able to provide society with highly qualified programmers and educational teachers who can contribute to building its various institutions. This relies on the availability of a high-level scientific and educational cadre.</p>	

<b>Program objectives</b>	<b>.3</b>
The graduate should have modern basic information in the field of computer science..	.1
Preparing cadresQualified specialization in the field of computer science that meets the needs of society.	.2
Preparing and graduating a teacher capable of teaching computer science and its related development, and who is eager to complete his postgraduate studies.	.3
Working on developing and updating the department's academic plans to keep pace with advanced developments.	.4
Increase interest and encouragement in students' social science skills.	.5
Modern and appropriate technologies meet the needs of society.	.6
Contributing to community service by spreading information awareness and providing specialized scientific studies and consultations.	.7

<b>Program accreditation</b>	<b>.4</b>
	nothing

<b>Other external influences</b>	<b>.5</b>
	nothing

<b>Program structure</b>					<b>.6</b>
<b>comments *</b>	<b>percentage</b>	<b>Study unit</b>	<b>Number of courses</b>	<b>Program structure</b>	
Basic course		90	90	<b>Institutional requirements</b>	
			Yes	<b>College requirements</b>	
			Yes	<b>Department requirements</b>	
			nothing	<b>Summer training</b>	
				<b>Other</b>	

\* Notes may include whether the course is core or optional.

Program description .7				
Credit hours		Course name	Course code	Year/Level 2024\2025

Expected learning outcomes of the program .8	
knowledge	
Preparing teachers to teach computer subjects in educational institutions at a high quality level	Preparing a teaching staff
Creating a generation that is proficient in the use and applications of computers so that they have the ability to invest	Prepared by a scientific researcher
Through holding courses, workshops or seminars within continuing education	Strengthening scientific cooperation
Through mastering the scientific material and scientific research methods	Providing the opportunity to complete postgraduate studies
Skills	
The student must master basic and advanced programming skills, and acquire skills Basics of the teaching profession in computer fields.	Teaching profession skills
Develop scientific research skills in the field of computer science, and master the required skills. To manage information systems and databases with high efficiency.	Scientific research skills
By preserving the state's resources and sources from depletion in all areas Especially with regard to the use of computers in the educational process.	Sustainable development skills

Developing students' practical skills in the laboratory and mastering the method of educational and psychological dealing Correct inside the lab.	practical skills
<b>values</b>	
In line with the principles of tolerant heavenly religions, customs and traditions, and respect for the institution The institution in which he studies and the institution in which he will work in the future	Developing beneficial values and attitudes
To meet current challenges and develop the educational system	Developing the attitude towards the teaching profession
To limit the misuse of their responsibilities in the scientific and educational field and to promote principles Scientific and ethical foundations.	Establishing teaching principles
For the great role played by computer science applications and uses in serving society.	Explaining the importance of science in serving society

<b>Teaching and learning strategies</b> .9
<b>Theoretical lectures-</b> - Laboratory education to acquire practical skills <b>E-learning</b> Graduation project and field practice for teaching in schools

<b>Evaluation methods</b> .10
Weekly, monthly, daily and end of year exams. • Practical exams and reports. •

Faculty .11						
Faculty members						
Faculty preparation		Special requirements/skills (if any)		Specialization		Academic rank
lecturer	angel			private	general	
	angel angel			information technology Computer Security	Computer Science Computer Science	teacher
lecturer	angel angel angel angel			Computer Systems and Networks Information Technology No. 2 Artificial Intelligence Number 2 Artificial intelligence administrative	Computer Engineering Computer Science Computer Science Computer Science law	Assistant Professor

Acceptance criteria .12
Central Admission at the Ministry of Higher Education and Scientific Research

The most important sources of information about the program .13
Department website and web

Program Development Plan .14
Continuously updating the content based on modern sources from reputable universities.

Program Skills Map															
Required learning outcomes of the program															
values				Skills				knowledge				Essential or optional?	Course name	Course code	Year/Level 2023-2024
A4	Part 3	Part 2	Part 1	B4	B3	B2	B1	A4	A3	A2	A1				
*				*	*		*			*	*	essential	logical design		First
*	*	*		*		*	*	*	*	*	*	essential	Structured programmin g		
*	*	*	*	*			*	*	*			essential	Calculator installation		
*	*	*	*	*			*		*	*	*	essential	mathematics		
*	*	*	*	*		*	*	*	*	*	*	essential	discontinuou s structures		
*	*	*	*	*	*	*	*					Support	psychology		
*	*	*	*	*	*	*	*					Support	Foundations of education		
*	*	*	*	*		*	*			*	*	Support	Arabic		
*	*	*	*	*	*		*		*		*	Support	human rights		



*		*		*		*	*			*	*	Support	English language		
*			*	*				*	*			essential	Processors		Second
*	*	*		*		*	*	*		*	*	essential	numerical analysis		
*	*	*		*	*	*	*	*			*	essential	Data structures		
*	*		*	*	*			*		*	*	essential	Object-oriented programming		
	*		*	*	*	*	*	*		*	*	essential	Databases		
*			*		*	*	*	*	*		*	essential	Calculative		
*	*	*	*	*		*		*	*	*		Support	Research methodology		
*		*	*	*		*	*	*			*	Support	developmental psychology		
*		*		*		*	*			*	*	Support	English language		

*	*	*	*			*	*		*		*	Support	<b>Baath regime crimes</b>		
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Please tick the boxes corresponding to the individual learning outcomes of  
the programme you are applying for.





## Course description form

1. Course Name: Logic design
2.Course Code:
2. Season/Year 2024\2025
3.Date of preparation of this description 2-3-2025
4.Forms of attendance available on a daily basis
5. of study hours (total) / Number of units (total) 60 Theoretical 60 Practical
6.The name of the course leader (if more than one name is mentioned)
Name: Mohammed Hamdan Yousef Email : <a href="mailto:mohammed1987hamdan@gmail.com">mohammed1987hamdan@gmail.com</a>

### نموذج وصف المقرر

1. Course name	Foundations of education
2. Course code:	
3. \ Semester/Year:	Annual
4. Date this description	2024/2025
5. Available attendance forms	Lectures are delivered to students in person according to the schedule announced in the department
6. Number of study hours (total)/number of units (total)	(2 hours per week * 30 weeks) ٦٠ hours
7. Name of the course administrator (if more than one name is mentioned)	<b>M. Dr. Ahmed Saleh Mahdi</b> <a href="mailto:ahmedahmedsailhnoor@gmail.com">ahmedahmedsailhnoor@gmail.com</a>
8. Course objectives	
Objectives of the study subject	<p>1-What is the meaning of education and the most important educational goals of education</p> <p>2- Education is a process of renewal to build the experience of the individual and society.</p> <p>3-Knowing the difference between education and learning</p> <p>4- Emphasizing the importance of direct experience in education</p> <p>4- It must be flexible and adaptable to different circumstances, situations and eras of time</p> <p>5- Teaching individuals the different types of science</p> <p>6-Knowledge of ancient Arab educational institutions and the most important Arab scholars and founders of modern science</p> <p>7- Developing and improving the learning and personal development process for individuals</p>

	8- Paying attention to the individual as it is the basis of the educational process, so he must be cared for physically, mentally, psychologically, and effectively, and to prepare him for life.				
Teaching and learning strategies	1. In-person lectures in classrooms. 2. Discussion method, surprise exams, and methods of refining skills. 3 Asking intellectual questions or holding a competition between students, stimulating creative thinking and answering clearly and quickly to the problems presented.				
9. Course structure					
<b>Evaluation method</b>	<b>Learning method</b>	<b>Name of the unit or topic</b>	<b>Required learning outcomes</b>	<b>hours</b>	<b>the week</b>
<b>Quarterly and daily attendance exams</b>	<b>In-person lectures</b>	<b>The meaning of education and its elements, the educational goals of education...</b>	<b>The student is able to understand the given material</b>	<b>10hours</b>	<b>5 weeks</b>
<b>Quarterly and daily attendance exams</b>	<b>In-person lectures</b>	<b>Types of education and the historical basis of education.....</b>	<b>The student is able to understand the given material</b>	<b>10hours</b>	<b>5weeks</b>
<b>Quarterly and daily attendance exams</b>	<b>In-person lectures</b>	<b>Old schools and their cultural message....</b>	<b>The student is able to understand the given material</b>	<b>10hours</b>	<b>5weeks</b>
<b>Quarterly and daily attendance exams</b>	<b>In-person lectures</b>	<b>Arab education and its philosophy...</b>	<b>The student is able to understand the given</b>	<b>10hours</b>	<b>5weeks</b>

			material		
Quarterly and daily attendance exams	In-person lectures	Educational institutions and institutes among Muslims and the signs of Arab-Islamic educational thought...	The student is able to understand the given material	10hours	5weeks
Quarterly and daily attendance exams	In-person lectures	The social basis of education, modern education.....	The student is able to understand the given material	10hours	5weeks
10.Course evaluation					
	<ul style="list-style-type: none"><li>• Semi-daily and monthly tests And surprise exams.</li><li>• Daily class participation</li></ul>				
11.Learning and teaching resources					
	1- Hadeel Al-Sheikh / Foundations of Education 2-. Habib Saad Abdel Salam / Foundations of Modern Education 3- Fahim Hussein Al-Tari / Foundations of Education		Required textbooks (methodology, if any)		
Main references (sources)					
	Recommended supporting books and references (scientific journals).				
	Electronic references, Internet sites				

**Curriculum for the subject / Structured Programming /  
Department of Computer Science / First Stage**

1. Educational institution	University of Maysan / College of Education
2. Scientific department/center	Department of Computer Science
3. Course name/code	Structured programming
4. Available forms of attendance	Actual daily attendance of students according to the lecture schedule
5. Semester/year	annual
6. Number of study hours ) . total)	120 hours / (2 theoretical + 2 practical) per week For 30 weeks
7. Date this description . was prepared	2024/2025
<p>8. Course objectives</p> <ol style="list-style-type: none"> <li>1. Qualifying the student to teach this subject in middle schools.</li> <li>2. Identify the beginning of programming correctly, independently of the specificity of the programming language, while consolidating the concepts (C++), emphasizing practical practice through a deeply structured programming language.</li> <li>3. Teaching the basics of programming, the algorithm for solving a problem, and transferring it to a program in one of the programming languages as a programming language. (C++) Structured procedural language was adopted</li> <li>4. The course also aims to enable students to acquire programming skills and solve problems programmatically, as well as write applied programs that are useful in the work of various institutions.</li> </ol>	
<p>9. Course outcomes and teaching, learning and evaluation methods</p> <p>A- Cognitive objectives</p> <ol style="list-style-type: none"> <li>1. The student knows how to accurately describe the steps to solve the problem, which later helps him write programs correctly.</li> <li>2. The student's knowledge of the instructions of the C++ language.</li> <li>3. The student's knowledge of data types and how to express them programmatically.</li> <li>4. The student's knowledge of data entry methods.</li> <li>5. The student's knowledge of how to process data and how to extract it.</li> </ol> <p>B - The skills objectives of the course</p> <ol style="list-style-type: none"> <li>1. Use the appropriate set of instructions to solve the problem.</li> </ol>	



**Curriculum for the subject / Structured Programming /  
Department of Computer Science / First Stage**

<p>2. Being able to represent what the student has learned theoretically in a practical way in the laboratory.</p> <p>3. Being able to draw a flow chart to solve a specific problem.</p> <p>4. Being able to determine the time taken to implement the algorithm. .</p>
<p>10 Teaching and learning methods</p> <ol style="list-style-type: none"> <li>1. Method of delivery and discussion style.</li> <li>2. Laboratory activities and additional exercises as assignments.</li> <li>3. Daily and monthly exams.</li> </ol>
<p>11. Evaluation methods</p> <ol style="list-style-type: none"> <li>1- Conducting daily/monthly/final theoretical and practical tests.</li> <li>2- Duties.</li> <li>3- Conducting oral exams.</li> </ol>
<p>12 Emotional and value goals</p> <ol style="list-style-type: none"> <li>1- Realizing the impact of the computer on the development of human thought and the advancement of science and technology.</li> <li>2- Appreciate the importance of solving problems programmatically instead of manual solutions.</li> <li>3- The desire to explore information, solve problems, and derive new information for specific purposes.</li> </ol>
<p>13- Teaching and learning methods</p> <ol style="list-style-type: none"> <li>1- Presenting traditional solutions to some problems and comparing them with modern solutions.</li> <li>2- Present some advanced problems and instruct the student to search for them on the Internet.</li> <li>3- Additional exercises at home and encouraging students to actively participate in solving some class exercises on the board inside the classroom.</li> </ol>
<p>Evaluation methods -14</p> <ol style="list-style-type: none"> <li>1. Discussion and dialogue.</li> <li>2. .Reports preparation</li> </ol>
<p>15 - General and qualifying transferable skills (other skills related to employability and personal development)</p> <ol style="list-style-type: none"> <li>1- That the student is able to employ the knowledge he has acquired.</li> <li>2- To be able to benefit from knowledge.</li> <li>3- To acquire teaching skills.</li> </ol>

**Curriculum for the subject / Structured Programming /  
Department of Computer Science / First Stage**

4- Positive thinking.		
16- Course structur		
the topic	hours	the week
<b>Algorithms &amp; flowcharts</b>	12	3
<b>Introduction of C++ language</b>	4	1
<b>Data types</b>	4	1
<b>General tools of C++ language</b>	12	3
<b>Arithmetic, logical, relational</b>		
<b>Decrement, and assignment operators of C++ language</b>	4	1
<b>Operators</b>	4	1
<b>precedence in C++ language &amp; comment</b>		
<b>Variables and constants and reserved words</b>	4	1
<b>Conditional statements</b>	8	2
<b>Loop statements</b>	8	2
<b>Nesting loops</b>	8	2
<b>Jump statement</b>	8	2
<b>1D-Arrays</b>	8	2
<b>2D-Arrays</b>	8	2
<b>C++ Strings</b>	8	2
<b>Functions</b>	12	3
<b>Files</b>	8	2
<b>Sources .17</b>		
<b>Required prescribed books</b>	<b>1. Stanley B. Lippman , Josée Lajoie , and Barbara E. Moo, "C ++ Primer", fourth edition, 2005.</b> <b>2. Juan Soulié , “C++ Language Tutorial”, 2008.</b>	
<b>Main references</b>	<b>1. Juan Soulié , “C++ Language Tutorial”, 2008.</b> <b>2. Juan Soulié , “C++ Language Tutorial”, 2008.</b> <b>3. 3. Bäckman , K., 2015. <i>Structured Programming with C++</i> . Bookboon</b>	

١. Course objectives					
Introduction to the science of logical design Introducing the student to the theoretical and practical skills of the logical design subject and how to design electronic logic circuits And represent it with a calculator. Preparing students to teach this subject to middle and middle school students. Preparing students to work in various private and governmental sectors.				Objectives of the study subject	
٢. Teaching and learning strategies					
Presenting theoretical material either through dialogue or displaying it on a screen. Applying theoretical material to the calculator. Assignments and exercises. Theoretical and practical lectures weekly. There are discussion lessons and solving exercises. Assigning the student to prepare periodic reports.				The strategy	
٣. Course structure					
week	Learning method	Name of the unit or topic	Required learning outcomes	hours	Evaluation method
١	Dialogue method And discussion	Chapter One: Number Systems	Chapter One: Number System	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam

٢	Dialogue method And discussion	Chapter One: Number Systems	Decimal numbers Decimal numbers Fractions of numbers Their weights	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
٣	Dialogue method And discussion	Chapter One: Number Systems	Eight numbers exadecimal numbers	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
٤	Dialogue method And discussion	Chapter Two: Converting Numbers	Conversion from deci system to other numer systems Binary octal, 1 handed hexa And vice versa	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
٥	Dialogue method And discussion	Chapter Three: Mathematical Operations For numbers	Add and subtract numbers in many ways	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
٦	Dialogue method And discussion	Chapter Three: Mathematical Operations For numbers	The first complement and the complement The second and its mathematical operations	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly

					exams+ Final exam
√	Dialogue method And discussion	Multiply and divide numbers	Multiply and divide numbers	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
^	Dialogue method And discussion	Chapter Four: Numbers without weights	Knowledge of BCD and BCD numbers EX-3	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
9	Dialogue method And discussion	Chapter Four: Numbers without weights	Binary to Gray	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
١٠	Dialogue method And discussion	Chapter 5 Boolean algebra	Logic gates And the truth table	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
١١	Dialogue method And discussion	Boolean algebra	Simplifying Boolean equation	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly

					exams+ Final exam
١٢	Dialogue method And discussion	Boolean algebra	Use of logic gates And learn about its types And its outputs	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
١٣	Dialogue method And discussion	Chapter Six Demorcan Laws	Using Demorcan's Laws in Abbreviations	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
١٤	Dialogue method And discussion	Karnov Map	Learn about adding multiplication Learn about multiplication of groups	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
١٥	EXAM	EXAM	EXAM	EXAM	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
١٦	Dialogue method And discussion	Karnov Map	Construct a brief logical syst	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly

					exams+ Final exam
١٧	Dialogue method And discussion	Chapter Seven Logical Analysis For groups	ull adder& half	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
١٨	Dialogue method And discussion	Chapter Seven Full Adder /Full subtractor	full adder	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
١٩	Dialogue method And discussion	Chapter Seven Full Adder /Full subtractor	half &full subtractor	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
٢٠	Dialogue method And discussion	Use comparisons	Using logic gates To compare numbers	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
٢١	Dialogue method And discussion	Use comparisons	Convert numbers using Logic gates	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly

					exams+ Final exam
٢٢	Dialogue method And discussion	Half-Adder	Half-Adder	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
٢٣	Dialogue method And discussion	Decoders	Student knowledge of operations Decryption	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
٢٤	Dialogue method And discussion	Exam	Exam	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
٢٥	Dialogue method discussion	Encoders	Know the student on Encryption operations	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
٢٦	Dialogue method discussion	Multiplexers	Learn how to transfer information in Damm or voter	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly



					exams+ Final exam
٢٧	Dialogue method discussion	DE multiplexer	How to learn in this device On one entry and one exit Multi	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
٢٨	Dialogue method discussion	Memories	Learning on types of memory RAM	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
٢٩	Dialogue method discussion	Memories	Learning types of memory ROM	2Theoretical + 2practical	Lectures+ Laboratories+ Daily and monthly exams+ Final exam
٣٠	Exam	Exam	Exam		

### ١١. Course evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

### 12.Learning and teaching resources

1-Digital Logic Fundamentals 9th edition (Thomas L. Floyd)	Required textbooks (methodology, if any)
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Digital Logic And Computer Design By M. Morris Mano	Main references (sources)
Translator of basics of logic and computer design	Recommended supporting books and references (scientific journals, reports....)
	Electronic references, Internet sites

## Course description form

### Course description

This course description provides a summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the learning opportunities available. It must be linked to the program description.

1-Educational institution	University of Misan / College of Education
2-Scientific Department / Stage	Department of Computers Science / First level
3-Course name/code	Mathematics
4-Available attendance forms	Attendance hours are according to the schedule announced in Class
5-Academic system	Annual course
6-Number of study hours (total)	90 hours '3 hours per week *30 per week
7-Date this description was prepared	2024/2025

### 8. Course objectives

- 1-That the student acquires foundational skills for mathematics in terms of language, symbols, information, and methods of thinking.
- 2-The student achieves familiarity with mathematics as a means of communication for different ideas and information.
- 3-Developing mental skills that enable the student to benefit from the information he learns and the skills he acquires  
And employing it to serve his requirements as an individual and to serve the goals of society in terms of social and economic development.
- 4-Integration of knowledge in terms of benefiting from mathematical information in other theoretical fields of study The process and the dependence of academic subjects on each other.
- 5- Acquiring some practical skills, such as using engineering tools, measurement skills, practical construction, and operating some devices and machines, such as using the MATLAB program to draw functions.

## **9. Course outcomes and teaching, learning and evaluation methods**

### **A- Cognitive objectives**

- 1-The student remembers the information and laws given in the course.
- 2-That the student understands the course topics and related mathematics problems.
- 3-The student should be able to apply what he has learned to solve mathematics problems.
- 4-That the student is able to analyze the text of the question and arrange the information to benefit from it in the solution and obtain correct results.
- 5-The student composes problems related to the course topics and then arrives at their correct solution.
- 6-The student should have ideas about the course material and know how to devise appropriate laws to solve it.

### **B - The skills objectives of the course**

- 1-The student must demonstrate the required mathematical laws related to the course vocabulary.
- 2-The student should use the appropriate laws to solve each problem.
- 3-The student must be proficient in linking topics that can be linked within the course vocabulary.
- 4-The student should distinguish between the uses of theorems and laws during the solution.

### **Teaching and learning methods**

In-person lectures.  
Discussion style.  
Auxiliary video lectures on the teacher's YouTube channel.

### **Evaluation methods**

1. Daily Quiz and monthly attendance tests
2. Assigning the student to academic tasks for which he will be rewarded
3. Assigning the student to make reports on mathematics topics.

### **General goals**

- 1-The student should show interest in the explanation the teacher provides of the subject.
- 2-The student must have sufficient conviction about the importance of the material he is receiving.
- 3-That the student is able to organize the data he has to solve mathematical problems.
- 4-The student should be able to discuss and justify solutions to mathematics problems and suggest some other possible solutions to the problem.

### **Teaching and learning methods**

- 1-Education using modern educational methods.
- 2-Teaching using competitions, which stimulate the spirit of enthusiasm among students.
- 3-Learning by making the student a teacher to enhance his self-confidence.
- 4-Learning through brainstorming among students.

### **Evaluation methods**

1. The method of discussion and dialogue between the student and the teacher.
2. Observation method.
3. Attendance exams.

### **Targeted skills:**

- 1-Using the acquired information in the field of life
- 2-Personal development through linking traditional education and e-learning.
- 3-Building the personality of a competent mathematics teacher who can transfer his experiences to students in the future.
- 4-Preparing the student scientifically and educationally according to solid scientific foundations.

## 11. Course vocabulary

Weeks	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1-3 weeks	9 hours	The student is able to understand the given material	The Intervals: -finite intervals -open intervals -Close intervals -Infinite intervals -Inequalities & absolute inequalities	Lecture and discussion	Quarterly and daily exams
4-5 weeks	6 hours	The student is able to understand the given material	- Type of function, composite function, Inverse function -Find domain of function, -Domain Root Function -Algebraic of function,	Lecture and discussion	Quarterly and daily exams
6-7 weeks	6 hours	The student is able to understand the given material	Graph of functions, limits - Theorem -A finite and infinite Limits -Continuity	Lecture and discussion	Quarterly and daily exams
8-10 weeks	9 hours	The student is able to understand the given material	-Trigonometric Functions -Graphs of Trigonometric functions -Limits of Trigonometric functions -Inverse of Trigonometric functions	Lecture and discussion	Quarterly and daily exams
11-15 weeks	15 hours	The student is able to understand the given material	-Logarithmic Functions -Nature logarithm -Normal logarithm -Exponential function that base e and a	Lecture and discussion	Quarterly and daily exams
16-20 weeks	15 hours	The student is able to understand the given material	-Derivatives - - Derivative by definition - Derivative by rules - Derivatives of higher order -Chain rules - Implicit differentiation	Lecture and discussion	Quarterly and daily exams

21-25 weeks	15 hours	The student is able to understand the given material	Sequences and Series A finite Sequences An infinite Sequences Power series Taylor Series Maclaurin Series	Lecture and discussion	Quarterly and daily exams
26-30 weeks	15 hours	The student is able to understand the given material	Integration -Indefinite Integral -Rules of Integration -Integral of Trigonometric functions -Integral of the Inverse Trigonometric functions -Definite integral	Lecture and discussion	Quarterly and daily exams

Helping sources	
Required prescribed books	1. Thomas Calculus, “Including Second-Order Differential Equations,” 2005
Main references (sources)	1. Thomas Calculus, “Including Second-Order Differential Equations,” 2005. 2. Math 221 FIRST SEMESTER Calculus, 2009.
A- Recommended books and references (magazines). Scientific reports, articles)	Thomas Calculus, Second Edition THOMAS CALCULUS, Twelfth Edition
B - Electronic references	<a href="https://www.youtube.com/channel/UC6WU7ZNuJxi8nNT6LePpjjg">https://www.youtube.com/channel/UC6WU7ZNuJxi8nNT6LePpjjg</a>

## 12. Course development plan

Developing the academic vocabulary for the current curriculum by deleting some paragraphs and adding others



## Course Description Form

Arabic Language	1. Course Name				
	2. Course Code:				
<b>annual</b>	3. Semester / Year :				
2024\2025	4. :description Date of preparation of th				
<b>Lectures are delivered in person to students according to the schedule announced in the department</b>	5. Available Forms of Attendance:				
<b>60 hours (2 hours per week * 30 weeks)</b>	6. Number of study hours (total)/number of units (total)				
<b>Name: Baraa Abdel Hussein</b>	7. Course administrator's name (if more than one name)				
8. Course Objectives					
<b>1 L am a man of the same age Qualifying students to make them able to use the Arabic language correctly to be</b> <b>People with a sound language that qualifies them to stand in front of students and speak in front of them</b> <b>2 . Avoid as many linguistic errors as possible in their teaching work in Secondary schools</b> <b>3. Access to a certain amount of Arabic grammatical, linguistic and spelling vocabulary</b> <b>4. Study some Qur'an, poetic and prose texts to learn about sober linguistic methods</b>					Course Objectives
1. Teaching and Learning Strategies					
<b>1. Face-to-face lectures in the classrooms.</b> <b>2. Discussion style, surprise exams and skills refinement methods.</b> <b>3. Asking intellectual questions or conducting a competition between students and stimulating creative thought and a clear and quick answer to the problems received.</b>					Strategy
4. Course Structure					
Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	The week
Semester and daily in-person exams	Face-to-face lectures	Nominal sentences The debutante	The student can understand	10 hours	5 weeks

		and the news	the material given		
Semester and daily in-person exams	Face-to-face lectures	Beginning transcriptionists Kan and her sisters Anne and her sisters No sex negation	The student can understand the material given	10 hours	5 weeks
Semester and daily in-person exams	Face-to-face lectures	Selections from Quranic texts A Quranic text from Surat Yusuf and a study of a story included in the text Surat Al-Kahf and the study of two stories included in the text Surat Al-Duha and its stories	The student can understand the material given	10 hours	5 weeks
Semester and daily in-person exams	Face-to-face lectures	Actual sentence Past tense Present tense verb He did the thing. Object	The student can understand the material given	10 hours	5 weeks
Semester and daily in-person exams	Face-to-face lectures	Introduction to Arabic spelling Drawing the hamza at the beginning of	The student can understand the material given	10 hours	5 weeks

		the word, in the middle of the word, and at the end of the word Punctuation			
Semester and daily in-person exams	Face-to-face lectures	Number Status of the number Reminder and feminization of the number Distinguish number Definition and denial of number	The student can understand the material given	10 hours	5 weeks

#### 5. Course Evaluation

- \* Daily and monthly tests and surprise exams.
- \* Daily classroom participation.

#### 6. Learning and Teaching Resources

Lectures in Arabic	Required textbooks (methodology, if any)
Explanation of Ibn Aqeel on the millennium of Ibn Malik – the collector of Arabic lessons The curriculum in grammar and syntax Some websites ( <a href="https://www.noor-book.com">https://www.noor-book.com</a> )	Main references (sources)
Arabic stories and novels Some Arabic research and sources	Recommended books and references (scientific journals, reports...)
Arabic grammar websites	Electronic References, Websites

## Course Description Form

1. Course Name: Computer Organization					
2.Course Code:					
2. Season/Year 2024\2025					
3.Date of preparation of this description 2-3-2024					
4.Forms of attendance available on a daily basis					
5. of study hours (total) / Number of units (total) 60 Theoretical 60 Practical					
6.The name of the course leader (if more than one name is mentioned)					
Name: Mohammed Hamdan Yousef					
Email : mohammed1987hamdan@gmail.com					
١. Course Objectives					
Objectives of the course	Students acquire positive and purposeful tendencies towards information technology in general and strengthen their desire towards computers. It also develops mental skills that enable the student to utilise the information he learns and the skills he acquired and employ them in serving him as an individual and in serving the goals of society.				
١. Teaching and learning strategies					
The strategy					
١. بنية المقرر					
Week	Hours	Unit or topic name	Required Learning Outcomes	Method of learning	Assessment method
1	2 theoretical + 2 practical	Representation of numbers and symbols	Learn how to represent numbers	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
2	2 theoretical + 2 practical	Processor Architecture	And the symbols in the calculator	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
3	2 theoretical + 2 practical	Fetch and Execution	How to retrieve information And its implementation	Dialogue method and discussion	Lectures+ Labs

					Daily and monthly exams+ Final Exam
4	2 theoretical + 2 practical	Vectors, registers, arithmetic and logic unit	Identify vectors and registers	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
5	2 theoretical + 2 practical	Control unit	Arithmetic and verbal operations	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
6	2 theoretical + 2 practical	Random access memory read only memory	Identify the unit	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
7	2 theoretical + 2 practical	Virtual memory	Control in the processor	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
8	2 theoretical + 2 practical	Cache memory	The student learns about a memory	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
9	2 theoretical + 2 practical	Input and output system basic's	RAM ROM	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
10	2 theoretical + 2 practical	Hard Disk	Memory recognition	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
11	2 theoretical + 2 practical	CD	Imaginary	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
12	2 theoretical + 2 practical	Input and output devices	The student gets to know	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
13	2 theoretical + 2 practical	, Keyboard Touch screen, mouse	Critical memory	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
14	2 theoretical + 2 practical	printer, display Output	Learn about printers and their types And its components	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
15	2 theoretical +	Model for	Identify the most important	Dialogue method	Lectures+

		2 practical	processor Λ • ΛΛ/Λ • ΛΛ	differences between	and discussion	Labs Daily and monthly exams+ Final Exam
	16	2 theoretical + 2 practical	,Λ • ΛΛ/Λ • ΛΛ general-purpose registers, records indexing and Mark, media records	Healers	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
	17	2 theoretical + 2 practical	Data transmission	The student gets to know the most important records	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
	18	2 theoretical + 2 practical	Programming languages	And media for therapists	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
	19	2 theoretical + 2 practical	○ Compilers, Assembly	The student gets to know	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
	20	2 theoretical + 2 practical	Interpreter, translator	Data transfer methods	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
	21	2 theoretical + 2 practical	Memory, address data organization	Learn about God's language	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
	22	2 theoretical + 2 practical	Memory segmentation,	and high-level languages	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
	23	2 theoretical + 2 practical	generation a memory address space(logical and physical address)	The student gets to know translators	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
	24	2 theoretical + 2 practical	assembly Set instruction	Assembly	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
	25	2 theoretical + 2 practical	Transfer instruction	The student gets to know the interpreter	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
	26	2 theoretical + 2 practical	Arithmetic instruction	The translator	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
	27	2 theoretical +	Instruction	To get to know the student	Dialogue method	Lectures+

		2 practical	Logical		and discussion	Labs Daily and monthly exams+ Final Exam
	28	2 theoretical + 2 practical	Input programming methods	On addressing patterns	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
	29	2 theoretical + 2 practical	Output programming methods		Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam
	30	2 theoretical + 2 practical	Pipelining Design Techniques	For the student to recognize passages	Dialogue method and discussion	Lectures+ Labs Daily and monthly exams+ Final Exam

## ۱۱. Course evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

## 12. Learning and teaching resources

Required textbooks (methodology, if any)	2003 s'Norton Peter for computers to Introduction
Main references (sources)	THE INTEL MICROPROCESSORS 8086/8088, 80186/80188, 80286, 80386, 80486, Pentium, Pentium Pro Processor, Pentium II, Pentium III, Pentium 4, and Core2 with 64-Bit Extensions Architecture, Programming, and Interfacing Eighth Edition BARRY B. BREY 2009. "Fundamentals of computer organization and architecture" By John wiley & Sons, 2005.
Recommended supporting books and references (scientific journals, reports....)	support.microsoft.com
Electronic references, Internet sites	2003 s'Norton Peter for computers to Introduction

<b>1. Educational institution</b>	University of Missan/College of Education
<b>2. Scientific department/center</b>	Department of Computer Science
<b>3. Course name/code</b>	human rights
<b>4. Available attendance forms</b>	Attendance in the hall
<b>5. Semester/year</b>	Annual course
<b>6. Accredited accreditation program</b>	Theoretical study
<b>7. The date this description was prepared</b>	2024/2025
<b>8. Course objectives</b>	
A- Developing the student's awareness of the history of the emergence of the issue of human rights	
B- The student's familiarity with the stages of development of human rights laws	
C- Introducing the student to the stages and countries that had an impact on human rights legislation	
T- Introducing the student to the importance of human rights and their effects on reality	
9- The required program outcomes and teaching, learning and evaluation methods	
A- Cognitive objectives 1-To become familiar with the concept of teaching human rights 2-To become familiar with the concept of methods and strategies for teaching human rights 3-To use the latest methods in teaching	
B - The program's skill objectives 1- Performance skills by involving the student in the lesson 2- Use explanatory means by reviewing the laws issued regarding human rights 3- Sharing the lesson by students	
Teaching and learning methods	
1- Method of giving lectures 2- Class discussion (group dialogue method - symposium method - discussion circle / Sumner) 3- Educational units	
Evaluation methods	



1- The way of facial expression 2- Feedback from students
C- Emotional and value goals. 1- Developing an admiring view of the issue of human rights 2- Enhancing the sense of responsibility among the individual in particular 3- and society in general towards human rights issues.
Teaching and learning methods 1- Class discussion 2- Cognitive conflict 3- Thinking beyond thinking
Evaluation methods
1- The way of expression in the face 2- Feedback from students 3- Oral exam Written test
D- General and qualifying transferable skills (other skills related to employability and personal development). Verbal communication: The student must be able to express ideas clearly and confidently in speech.

Vocabulary week	Vocabulary week
The first week	The roots of human rights in human history include:  1. Human rights in ancient civilizations (Mesopotamia civilization - other ancient civilizations). 2. Human rights in the middle Ages.
second week	Human rights in Islamic laws (Judaism - Christianity - Islam)
the third week	Human rights in the modern era and contemporary recognition of human rights
fourth week	Contents of human rights 1- Rights in international conventions (League of Nations, United Nations), regional and national legislation.
The fifth week	1- Terrorism (its causes, confronting terrorism) 2- Corruption (its definition, concepts, causes, methods of combating and treating it, types, political corruption, administrative and financial corruption)

The sixth and seventh weeks	Forms and generations of human rights (individual and social rights) The first generation (the generation of civil and political rights) The second generation (economic, social and cultural) The third generation (the generation of new rights) and women's rights
The eighth week	Human rights guarantees and protection at the national, regional and international levels
The ninth and tenth weeks	Common general characteristics of non-governmental organizations (the International Committee of the Red Cross, the International Committee for Relief to the Wounded, Amnesty International, Human Rights Watch, the Organization of the Islamic Conference, the Organization of African Unity, the Red Crescent, etc).
The twelfth and thirteenth week	Ancient and modern democracy and the concept of political and cultural legitimacy
The fourteenth and fifteenth weeks	Types of democracy (1-Direct 2-Indirect (representative) 3-Semi-direct and principles of democracy)
The sixteenth, seventeenth and eighteenth weeks	The development of democratic values in the Middle Ages and waves of democracy in the twentieth century
The nineteenth, twenty-first and twenty-first weeks	The basic components of the democratic system, characteristics of the democratic system, features of the democratic system, pillars of the democratic system and its conditions
The twenty-second and twenty-third week until the end of semester 2	Principles governing majority rule (principles of separation of powers, the concept of the rule of law, the concept of transfer of power, the concept of decentralization).
References that the student can refer to	1- Human rights, their development, concepts, and protection, Prof. Dr. Riad Aziz Hadi

### نموذج وصف المقرر

Educational psychology	1. Course name	
	2. Course code:	
annual	3. Semester/Year:	
2024\2025	4. Date this description was prepared:	
Lectures are delivered to students in person according to the schedule announced in the department	5. Available attendance forms	
hours ٦٠ (2 hours per week * 30 weeks)	6. Number of study hours (total)/number of units (total)	
<b>Name: M.M. Haneen Hadi Qasim</b> <a href="mailto:haninhadiqasim01@gmail.com">haninhadiqasim01@gmail.com</a>	7. Name of the course administrator (if more than one name is mentioned)	
1. Course objectives		
1–The concept of psychology, its nature and importance  2– The goals of psychology and its study  3– Behavior and influencing factors  4– Research methods in psychology  5– Motives, emotions, trends and their types  6–Attention, sensory perception and the factors affecting them  7.Remembering, forgetting, thinking, creativity, intelligence, and mental abilities		Objectives of the study subject
1. Teaching and learning strategies		
1. In–person lectures in classrooms.  2. Discussion method, surprise exams, and methods of refining skills.		The strategy

3 Asking intellectual questions or holding a competition between students, stimulating creative thinking and answering clearly and quickly to the problems presented.	
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Course structure .\ .\

week	Learning method	Name of the unit or topic	Required learning outcomes	hours	Evaluation method
•	In-person lectures	Introduction to psychology and educational psychology, the importance of its goals and development...	The student is able to understand the given material	10hours	Quarterly and daily attendance exams
5	In-person lectures	Learning and teaching, motivation...	The student is able to understand the given material	10hours	Quarterly and daily attendance exams
5	In-person lectures	Individual differences, attention, and perception	The student is able to understand the given material	10hours	Quarterly and daily attendance exams
5	In-person lectures	Memory, forgetting	The student is able to understand the given material	10hours	Quarterly and daily attendance exams
5	In-person lectures	Feedback, transfer of learning effects, classroom interaction	The student is able to understand the given material	10hours	Quarterly and daily attendance exams
5	In-person lectures	Learning theories (relational theories), concept learning	The student is able to understand the given material	10hours	Quarterly and daily attendance exams

.\ Course evaluation

<p><b>* Semi-daily and monthly tests</b></p> <p><b>And surprise exams.</b></p> <p style="text-align: right;"><b>Daily class participation</b></p>	
Learning and teaching resources ١. ٢.	
<p>Fundamentals of educational psychology, Mohieddin Tawfiq, and Abdel Rahman Adas.</p> <p>Educational Psychology, Abdul Majeed Nashwati.</p> <p>Educational psychology, Saleh Abu Jado.</p> <p>Principles of educational psychology, Imad Al-Zaghoul</p> <p>General psychology. Jamal Al-Alusi.</p>	Required textbooks (methodology, if any)
	Main references (sources)
	Recommended supporting books and references (scientific journals).
	Electronic references, Internet sites