

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic
Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2025-2026

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

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

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

Concepts and terminology:

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

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

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

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

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

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

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

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

Academic Program Description Form

Academic Program Description Form

University Name: Diyala University

Faculty/Institute: College of Basic Education

Scientific Department: Computer Science

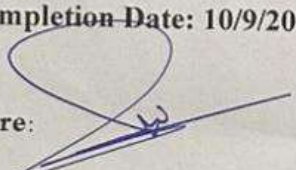
Academic or Professional Program Name: Basic Education-computer science

Final Certificate Name: Bachelor's degree in basic education

Academic System: Semester courses

Description Preparation Date: 10/9/2025

File Completion Date: 10/9/2025

Signature: 

Head of Department Name:

Shaymaa Taha Ahmed

Date: 10/9/2025

Signature: 

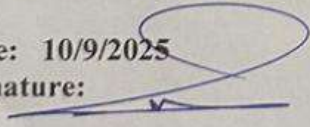
Scientific Associate Name:

Haider A.A Mohammed

Date: 10/9/2025

The file is checked by:
Department of Quality Assurance and University Performance
Director of the Quality Assurance and University Performance Department:

Date: 10/9/2025

Signature: 


Approval of the Dean
Ayman Abdoun Nazal

1. Program Vision

An ambitious picture for the future of the academic program to be an advanced, inspiring, motivating, realistic and applicable program.

2. Program Mission

It briefly explains the goals and activities necessary to achieve them, and also identifies the program's development paths and directions.

3. Program Objectives

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

- 1– Preparing university teachers who possess the educational skills necessary to teach computers
- 2– Developing students' scientific attitudes to enable them to develop their own abilities in their higher studies
- 3– Providing students with the necessary skills to deal with any scientific problem and solve it in a sound scientific manner
- 4– Teach students how to innovate and develop educational methods for use in teaching computers
- 5– Developing and updating scientific curricula in the field of computers
- 6– Cooperating with all college departments in maintaining and developing computer equipment on a regular and ongoing basis
- 7– Encouraging attendance and participation in scientific conferences and seminars in order to learn about the latest developments in teaching methods and develop scientific research in specialized subjects.

4. Program Accreditation

All courses/study subjects included in the academic program according to the intentional learning system (courses), whether they are requirements (a ministry, a university, a college, or a scientific department), along with the number of study units.

5. Other external influences

Central admission + student averages

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	28	154	%18.18	
College Requirements	45	154	%29.22	
Department Requirements	81	154	%52.60	
Summer Training	/			
Other				

* This can include notes whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
2025-2026			theoretical	practical
First	DEMFII	Human rights	1	-
First	ARBFII	Arabic I	2	-
First	ENGF12	English I	2	-
First	DFVF11	Basics of psychology	3	-
First	EDUF12	Fundamentals of basic education and its	3	-

		principles		
First	ED-CO-SE-1	Health and environmental education	2	-
First	ISLF12	Islamic Education / Civilization	3	-
First	CSB15SP111	Structured programming I	3	1
First	CSB15LD122	Computer logic Design computer	3	1
First	CSB15DS214	Differentiation	2	-
First	CSB15SP121	Discrete structures I	3	-
First	Comp 1306	Structured programming II	3	1
First	CSB15DS224	Computer techniques	3	1
First	ARBF12	Integration	3	-
First	CURSE3	Discrete structures II	2	1
First	ENGSE3	principals of Office	2	1
Second	BAASE3	Arabic II	2	-
Second	CLTSE4	Counseling and mental health	3	-
Second	EDPSE4	English II	2	-
Second	ED-ST-SE-2	Democracy	1	-
Second	CSB15CT211	Educational Psychology	3	-
Second	CSB15M212	English III	2	-
Second	CSB15S121	Educational Statistics	3	-
Second	CSB15DS214	Computational theory	3	1
Second	CSB15SM215	Introduction to Microprocessors and computers	3	1
Second	CSB15NA221	Programming in C++	3	1
Second	CSB15CG222	Data structures I	3	1
Second	CSB15OOP223	Systems Management (Maintenance)	2	-
Second	CSB15DS224	Numerical Analysis	4	-
Second	ARBF12	Computer graphics	3	1
Second	CSB15NER316	Object Oriented Programming OOP	3	1
Second	MFGS123	Data structures II	3	1
Third	ED-AD-FO-1	Arabic III	2	-
Third	CSB15SA311	Research Methods	3	-
Third	CSB15C312	TMS	2	-
Third	CSB15CA312	Measurement and	2	-

		Evaluation		
Third	CSB15CN5314	General methods of teaching	2	-
Third	CSB15MER316	Viewing	-	4
Third	CSBPP321	Analysis systems	3	1
Third	CSB15CA322	compilers	3	1
Third	CSB15CN5325	Computer Architecture I	3	1
Third	CSB15DS324	Communications and network security I	3	1
Third	CSB15SE325	Operations Research	3	-
Third	EDPSE4	Prolog Lang	3	1
Third	ARBF12	Computer Architecture II	3	1
Third	CURSE3	Communications and network security II	3	1
Third	DEMFII	Data security	3	-
Third	ARBFI	Software Engineering	2	-
Third	ENGF12	Methods of Computer Teaching	3	-
Fourth	DFVF11	Arabic V	2	-
Fourth	EDUF12	Curricula and textbooks	2	-
Fourth	ED-CO-SE-1	Educational Administration and direction	2	-
Fourth	ISLF12	Application	12	-
Fourth	CSB15SP111	Databases	3	1
Fourth	CSB15LD122	Digital Image Processing	3	1
Fourth	CSB15DS214	Operating systems	3	1
Fourth	CSB15SP121	Artificial intelligence	3	1
Fourth	Comp 1306	Visual programming	3	1
Fourth	CSB15DS224	Research Project Graduation	3	-

8. Expected learning outcomes of the program

Knowledge

A- Cognitive objectives

- 1- Enabling students to know and understand all terms, concepts and symbols of computer languages
- 2 - Enabling students to know and understand the methods of creating, modifying and developing various programs.
- 3- Enabling students to understand and learn how to follow programs inside computers
- 4- Enabling students to know and understand the methods of working on electronic publishing
- 5- Enabling students to know and understand how to use management systems and databases

6– Enabling students to acquire knowledge and understand information, knowledge and theoretical concepts related to computer networks and systems

Telecommunications.

7– Enabling students to know and understand modern programming languages and database systems.

8– Enabling students to acquire knowledge and understand educational, psychological and cultural information, facts and concepts

9– Enabling students to understand computer teaching strategies, methods and methods.

10– Introducing students to the most important references and important sources in computer science.

11– Enabling students to understand and know all psychological educational terms, concepts and symbols.

12– Enabling students to understand the basics and concepts of measurement, evaluation, and educational statistics.

13– Enabling students to understand the basics, concepts, theories and types of psychological and educational counseling.

Skills

1–Enabling students to acquire information systems and database management skills.

2– Enabling students to learn and acquire the skills of designing and supervising websites.

3– Enabling students to possess the skills of using modern technologies in teaching and learning computer science

4– Enabling students to possess the abilities to design and invent effective educational activities that encourage students to Learning and participating in it.

5–Enables students to acquire classroom management skills, classroom interaction, and the art of dealing with classroom problems

In an educational manner.

6– Providing students with the necessary skills to develop software of various types.

7– Enabling students to acquire skills for testing the suitability of programs for work

8– Enabling students to acquire the skills of identifying problems resulting from computer misuse and working on them

Solve it

9– Enabling students to acquire scientific research skills.

10– Enabling students to possess the skills of preparing and constructing electronic and paper tests and methods for correcting them.

11– Enabling students to acquire planning skills for teaching at all levels.

12– Enabling students to acquire skills in using modern educational methods to learn computer science

13– Enabling students to possess the skills of designing and managing data and electronic devices.

- 14- Enabling students to acquire teaching skills in primary and middle schools.
- 15- Enabling students to acquire self-education skills to acquire new information, skills and knowledge
- 16- Enabling students to learn the skills of dialogue, discussion, listening, and accepting the opinions of others.

Ethics

- 1- (The method of lecture, discussion, questioning, exploration, and special methods for teaching common concepts) This is what concerns theoretical education.
- 2- (Cooperative learning and small groups method) regarding the practical aspect.
- 1- 40% semester exams, taking into account attendance and participation.
- 2- 60% end-of-course tests.
- C- Thinking skills: developing thinking skills related to:
- C1- Critical thinking
- C2- Creative thinking
- C3- Communication skills
- C4- Thinking frameworks for different academic subjects

9. Teaching and Learning Strategies

Common methods: Integrating the development and teaching of the thinking process within the various academic subjects to the extent that it is related to the subject of educational techniques, so that it is taught directly and explicitly.

10. Evaluation methods

- 1- Written tests
- 2- Direct observation
- 3- Theoretical tests
- 4- Practical tests on the computer
- 5- Field visits to evaluate applied students
- 6- Oral and written tests and discussion

11. Faculty

Faculty Members

Academic Rank	Specialization	Special Requirements/Skills	Number of the teaching staff
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			(if applicable)			
	General	Special			Staff	Lecturer

12. Acceptance Criterion

Preparatory Certificate – Scientific Branch – Competitive rate based on desire.

13. The most important sources of information about the program

Books, periodicals, university theses, the international information network, and the personal experience of the person teaching the course.

14. Program Development Plan

- 1– Review the previous steps and their outcomes
- 2– Reviewing the latest developments in books, periodicals, and the information network in the field of specialization
- 3– Periodic (annual) updating of approved teaching plans.

Program Skills Outline

Year/Level	Code code	Course Name	Basic or optional	Objectives Cognitive				Objectives Marathi own with the program				Objectives Sentimental and value			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
The first The first	Univ1101	human rights	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	Univ1102	Islamic Education I	Basic	√	√	√		√	√	√	√	√	√	√	√
The first The first	Univ1103	Arabic I	Basic	√	√	√	√	√		√	√	√	√	√	√
	Univ1104	Islamic Education II	Basic	√	√	√	√	√	√	√	√	√	√	√	√
The first	Univ1105	English I	Basic	√	√	√	√	√	√	√	√	√	√	√	√
The first The first	Call 1201	General Psychology	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	Call 1202	The basis of education	Basic	√	√	√	√	√	√	√	√	√	√	√	√
The first	Call 1203	Developmental Psychology	Basic	√	√	√	√	√	√	√	√	√	√	√	√

The first	Call 1204	principals of Education	Basic	√	√	√	√	√	√	√	√	√	√	√	√
The first	Comp1301	Structured programming I	Basic	√	√	√	√	√	√	√	√	√	√	√	√
The first	Comp1302	Computer logic design comp uter	Basic	√	√	√	√	√	√	√	√	√	√	√	√
The first	Comp 1303	Differentiation	Basic	√	√	√	√	√	√	√	√	√	√	√	√
The first	Comp 1304	Discrete structures I	Basic	√	√	√	√	√	√	√	√	√	√	√	√
The first	Comp 1305	Structured programming II	Basic	√	√	√	√	√	√	√	√	√	√	√	√
The first	Comp1306	Computer techniques	Basic	√	√	√	√	√	√	√	√	√	√	√	√
The first	Comp 1307	Integration	Basic	√	√	√	√	√	√	√	√	√	√	√	√
The first	Comp 1308	Discrete structures II	Basic	√	√	√	√	√	√	√	√	√	√	√	√
The first	Comp 1309	principals of Office	Basic	√	√	√	√	√	√	√	√	√	√	√	√

the second	Univ2107	Arabic II	Basic	√	√	√	√	√	√	√	√	√	√	√	√
the second	Univ2109	Health and Environment Education	Basic	√	√	√	√	√	√	√	√	√	√	√	√
the second	Univ2110	English II	Basic	√	√	√	√	√	√	√	√	√	√	√	√
the second	Univ2111	Democracy	Basic	√	√	√	√	√	√	√	√	√	√	√	√
the second	Call 2205	Educational Psychology	Basic	√	√	√	√	√	√	√	√	√	√	√	√
the second	Call 2206	mental health	Basic	√	√	√	√	√	√	√	√	√	√	√	√
the second	Call 2207	Educational guidance	Basic	√	√	√	√	√	√	√	√	√	√	√	√
the second	Call 2208	Educational Statistics	Basic	√	√	√	√	√	√	√	√	√	√	√	√
the second	Comp2310	Computational theory	Basic	√	√	√	√	√	√	√	√	√	√	√	√
the second	Comp2311	Introduction to microprocessors and computers	Basic	√	√	√	√	√	√	√	√	√	√	√	√

the second	Comp 2312	Programming in C++	Basic	√	√	√	√	√	√	√	√	√	√	√	√
the second	Comp 2313	Data structures I	Basic	√	√	√	√	√	√	√	√	√	√	√	√
the second	Comp2314	Systems Management (Maintenance)	Basic	√	√	√	√	√	√	√	√	√	√	√	√
the second	Comp 2315	Numerical Analysis	Basic	√	√	√	√	√	√	√	√	√	√	√	√
the second	Comp 2316	Computer graphics	Basic	√	√	√	√	√	√	√	√	√	√	√	√
the second	Comp2317	Object Oriented Programming OOP	Basic	√	√	√	√	√	√	√	√	√	√	√	√
the second	Comp 2318	Data structures II	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third	Univ3112	Arabic III	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third	Call 3209	Research Methods	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third	Call 3210	TMS	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third	Call 3211	Measurement and	Basic	√	√	√	√	√	√	√	√	√	√	√	√

		evaluation													
Third	Call 3212	General methods of teaching	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third	Call 3213	Viewing	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third	Comp 3320	Analysis systems	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third	Comp3321	compilers	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third	Comp3322	Computer ArchitectureI	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third	Comp 3323	Communications and network security I	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third	Comp 3324	Operations Research	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third	Comp 3325	Prolog Lang	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third	Comp 3326	Computer Architecture II	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third	Comp 3327	Communications and	Basic	√	√	√	√	√	√	√	√	√	√	√	√

		network security II													
Third	Comp 3328	data security	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third	Comp 3329	Software Engineering	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third	Comp 3330	Methods of Computer Teaching	Basic	√	√	√	√	√	√	√	√	√	√	√	√
fourth	Univ4115	ArabicV	Basic	√	√	√	√	√	√	√	√	√	√	√	√
fourth	Call 4214	Curricula and textbooks	Basic	√	√	√	√	√	√	√	√	√	√	√	√
fourth	Call 4215	Educational administration and direction	Basic	√	√	√	√	√	√	√	√	√	√	√	√
fourth	Call 4216	Application	Basic	√	√	√	√	√	√	√	√	√	√	√	√
fourth	Comp 4331	databases	Basic	√	√	√	√	√	√	√	√	√	√	√	√
fourth	Comp 4332	Digital Image Processing	Basic	√	√	√	√	√	√	√	√	√	√	√	√

fourth	Comp 4333	Operating systems	Basic	√	√	√	√	√	√	√	√	√	√	√	√
fourth	Comp 4334	artificial intelligence	Basic	√	√	√	√	√	√	√	√	√	√	√	√
fourth	Comp 4335	visual programming	Basic	√	√	√	√	√	√	√	√	√	√	√	√
fourth	Comp 4336	Research Project Graduation	Basic	√	√	√	√	√	√	√	√	√	√	√	√

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

Course Description Form

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

Enterprise educational	College Education the basic
Section Scientific / Center	Calculators
Noun / Code scheduled	Structured programming I/ Comp 1301
shapes Attendees available	Is mandatory
the classroom / the year	the classroom scholastic the first / the year The first
number hours tuition (total)	$3 \times 15 = 45$
Date Preparation this the description	1/ 10/ 2023
Goals Decision: that is being requester knowledgeable with concepts following	

1. Algorithms and flowcharts
2. Principles of Modular Programming
3. Top-Down Design Approach
4. Principles of structured programming
5. Pascal Program Structure
6. Write the expression in the Pascal language
7. Allocation and I/O statements
8. Procedures & Functions
9. Control and decision-making sentences
outputs scheduled and modalities education and learning and evaluation
A- Objectives Cognitive 1- That Known requesterHow to write algorithms and draw flowcharts 2- That Known requester Paradigm Programming Principles (modular programming) 3- That Known The top-down design approachTop-Down) 4- That Known requester

Principles of structured programming 5- That Known requester Program Structure in Pascal Language (pascal) 6- That Known requester How to write expression in Pascal language 7- That Known requester How Utilization assignment, input, and output statements I/O) 8- That Known requester How to write procedures and functions Procedures & Functions) 9- That Known requester what Control sentences and how to make a decision

B – Objectives Marathi own By decision. that made up I have Students skills with concepts coming 1-Writing algorithms and drawing flowcharts 2- Rules language Pascal (pascal) 3-Write the arithmetic expression in the Pascal language 4- use assignment, input, and output statements I/O) 5-Writing procedures and functions Procedures & Functions) 6- use Control sentences and how to make a decision

modalities education and learning

in Start the classroom Being inform Students vocabulary scheduled scholastic and sources the information (Books Same Relationship , periodicals , Messages undergraduate) and distributed vocabulary on me weeks the classroom scholastic, and Techniques Calendar that will run followed , my agencies: 1. Initialize Lectures According to sequence Which rose in scheduled scholastic About road help with sources the information precedent The remembrance. 2. Inform Students About Theme lecture coming with intent config. 3. Demand from Students Submit Leaves Belonging to subject or more from themes restriction studying.

modalities Evaluation

1. Procedure two exams two quarters the first distance expiration the week Fifth from the classroom scholastic And the second distance the week The tenth from the classroom scholastic and considerate in All Exam levels mental (Remember , application, exploration) where Degree Calendar to her 40% of achievement total on me that Takes I see consideration perseverance requester and volume Share it daily. 2. Exam End the classroom scholastic And for him 60% of achievement According timings Ministry And take into account At put questions

inclusivity content scheduled scholastic and levels mental (Remember , application, exploration).					
C- Objectives Sentimental And value :that is being requester able on me 1- Definition algorithm And chart streamlined 2- Writing expression Arithmetic 3- Writing camel personalization And input And output 4- Get acquainted on me the difference between procedures And functions 5- Get acquainted on me How Utilization camel the decision					
Dr – skills the public And Qual movable (skills other related susceptibility recruitment and evolution profile). 1- Employment skills earned in education Knowledge sports I have Students Stage education Basis. 2- Choose Examples from Established education Basis And to each Of which skills that eat it scheduled scholastic. 3- Evaluation Bezel acquisition pupils education Basis for skills application. 4- Building Tests Especially domains thinking Logical for pupils Stage education Basis.					
structure scheduled					
the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation
1	3	Concept of algorithm and flowchart	Concept of algorithm and flowchart	Discussion and interrogation	calendar structural
2	3	The concept of paradigm programming	The concept of paradigm programming	Discussion and interrogation	calendar structural

3	3	Design concept from top to bottom	Design concept from top to bottom	Discussion and interrogation	calendar structural
4	3	Principles of programming in Pascal language	Principles of programming in Pascal language	Discussion and interrogation	calendar structural
5	3	Pascal program structure	Pascal program structure	Discussion and interrogation	calendar structural
6	3	Test Monthly	Test Monthly	—	calendar structural
7	3	Use the arithmetic expression	Use the arithmetic expression	Discussion and interrogation	calendar structural
8	3	Use assignment, input and output statements	Use assignment, input and output statements	Discussion and interrogation	calendar structural
9	3	Learn about the proceduresProcedures	Learn about the proceduresProcedures	Discussion and interrogation	calendar structural
10	3	Learn about the proceduresProceduresAnd written	Learn about the proceduresProceduresAnd written	Discussion and interrogation	calendar structural

11	3	Test Monthly	Test Monthly	–	calendar structural
12	3	Identify on me functions Functions and written	Identify on me functions Functions and written	Discussion and interrogation	calendar structural
13	3	Identify on me camel take the decision	Identify on me camel take the decision	Discussion and interrogation	calendar structural
14	3	Identify on me camel the control	Identify on me camel the control	Discussion and interrogation	calendar structural
15	3	audit scheduled	audit scheduled	Discussion and interrogation	calendar structural
structure substratum					
1- The required textbooks			Nothing		
2 main references (sources)			Fundamentals of programming in Pascal language. Written by Dr. Nidal Khudair Al-Abadi		
Recommended books and references (scientific journals,			Benefit from periodicals and resources related to the course		

reports,)	
B- Electronic references, websites...	Benefit from the international information network as well-known sources
plan Development scheduled scholastic	
1. Done Development scheduled According to requirements Which Appear in Development curricula in Phase education Basis. 2. Done Development scheduled According to requirements Which Appear in Development curricula in the system Global.	

Course Professor/Professor Ehsan Salman Jassim

Course description form
Course description

This course description provides a necessary summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made the most of the available learning opportunities. It must be linked to the program description.;	
Enterprise educational	College Education the basic

Section Scientific / Center	Calculators
Noun / Code scheduled	Digital Image Processing /Comp 4332
shapes Attendees available	Is mandatory
the classroom / the year	the classroom scholastic the first / the year fourth
number hours tuition (total)	$3 \times 15 = 45$
Date Preparation this the description	1/ 10/ 2023
Goals Decision: that is being requester knowledgeable with concepts following	
1. Introduction to digital image processing	
2. Image Sampling	
3. Image Quantization	
4. Image Transformations	
5. Image Filtering	

6. Image Zooming
7. Image Compression
outputs scheduled and modalities education and learning and evaluation
A- Objectives Cognitive 1- That Known requesterimage concept digital 2- That Known requesterThe concept of sampling 3- That Known requester Principles of quantization concept 4- That Known Types of image transformations 5- That Known requesterThe concept of image filtering and types of filters 6- That Known requester How to change the image scale in several ways 7- That Known requester Concept pressure Pictures And Species techniques Pressure
B – Objectives Marathi own By decision. that made up I have Students skills with concepts coming 1-Write a program about opening a digital image 2- Writing a program to apply Concept quantification 3-Write a program to show the types of image transformations 4- Writing a program About Implementation Some filters on me Picture 5-Write a program to apply image scaling methods
modalities education and learning
in Start the classroom Being inform Students vocabulary scheduled scholastic and sources the information (Books Same Relationship , periodicals , Messages undergraduate) and distributed vocabulary on me weeks the classroom scholastic, and Techniques Calendar that will run followed , my agencies: 1. Initialize Lectures According to sequence Which rose in scheduled scholastic About road help with sources

the information precedent The remembrance. 2. Inform Students About Theme lecture coming with intent config. 3. Demand from Students Submit Leaves Belonging to subject or more from themes restriction studying.					
modalities Evaluation					
1. Procedure two exams two quarters the first distance expiration the week Fifth from the classroom scholastic And the second distance the week The tenth from the classroom scholastic and considerate in All Exam levels mental (Remember , application, exploration) where Degree Calendar to her 40% of achievement total on me that Takes I see consideration perseverance requester and volume Share it daily. 2. Exam End the classroom scholastic And for him 60% of achievement According timings Ministry And take into account At put questions inclusivity content scheduled scholastic and levels mental (Remember , application, exploration).					
C- Objectives Sentimental And value :that is being requester able on me 1- Definition Picture digital 2- Definition my operation sampling And quantification 3- Apply Species Transfers Picture 4- Male Species filters 5- Apply Species modalities change measurement Picture 6- Comparison between modalities pressure Picture					
Dr – skills the public And Qual movable (skills other related susceptibility recruitment and evolution profile). 1- Employment skills earned in education Knowledge sports I have Students Stage education Basis. 2- Choose Examples from Established education Basis And to each Of which skills that eat it scheduled scholastic. 3- Evaluation Bezel acquisition pupils education Basis for skills application. 4- Building Tests Especially domains thinking Logical for pupils Stage education Basis.					
structure scheduled					
the	hours	outputs learning required	Noun Unit / or Topic	method education	method

week					Evaluation
1	3	concept of digital image	concept of digital image	Discussion and interrogation	calendar structural
2	3	The concept of quantification and sampling	The concept of quantification and sampling	Discussion and interrogation	calendar structural
3	3	The concept of image transformations and their types	The concept of image transformations and their types	Discussion and interrogation	calendar structural
4	3	Concept of image enhancement process using filterat	Concept of image enhancement process using filterat	Discussion and interrogation	calendar structural

5	3	Concept of image optimization process using diagram	Concept of image optimization process using diagram	Discussion and interrogation	calendar structural
6	3	Test Monthly	Test Monthly	–	calendar structural
7	3	Concept of image enhancement process using levels adjustment	Concept of image enhancement process using levels adjustment	Discussion and interrogation	calendar structural
8	3	The concept of resizing an image	The concept of resizing an image	Discussion and interrogation	calendar structural
9	3	The concept of digital image compression	The concept of digital image compression	Discussion and interrogation	calendar structural

					al
10	3	Concept of types of digital image compression methods	Concept of types of digital image compression methods	Discussion and interrogation	calenda r structur al
11	3	Test Monthly	Test Monthly	—	calenda r structur al
12	3	The concept of digital image compression methods without Loss And its algorithms	The concept of digital image compression methods without Loss And its algorithms	Discussion and interrogation	calenda r structur al
13	3	The concept of digital image compression methods With loss And its algorithms	The concept of digital image compression methods With loss And its algorithms	Discussion and interrogation	calenda r structur al
14	3	audit scheduled	audit scheduled	Discussion and	calenda

				interrogation	r structur al
15	3	audit scheduled	audit scheduled	Discussion and interrogation	calenda r structur al
structure substratum					
1- The required textbooks		Nothing			
2 main references (sources)		Digital Image Processing, GonzalezImage Processing Principles and Applications, By Tinku Acharya and Ajoy K. Ray			
Recommended books and references (scientific journals, reports,)		Benefit from periodicals and resources related to the course			
B- Electronic references, websites...		Benefit from the international information network as well-known sources			
plan Development scheduled scholastic					

1. Done Development scheduled According to requirements Which Appear in Development curricula in Phase education Basis. 2. Done Development scheduled According to requirements Which Appear in Development curricula in the system Global.

Course Professor / A.M. Hamid Sadiq Mahdi

Course description form
Course description

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

Enterprise educational	College Education the basic
Section Scientific / Center	Calculators
Noun / Code scheduled	analysis Organized
shapes Attendees available	Is mandatory

the classroom / the year	the classroom scholastic the first / the year Third
number hours tuition (total)	30 hours
Date Preparation this the description	1/ 10/ 2023
Goals scheduled	
Understand the basic concepts of analyzing and developing information systems in the organization	
Understand the main stages in the systems development life cycle	
3- Identify and collect information system requirements	
Infer system specifications through system analysis	
Provide clear system analysis and design using diagrams	
outputs scheduled and modalities education and learning and evaluation	
A- Objectives Cognitive a1- Tamkeen Students from get on me Knowledge and understanding from During absorb and analysis material systems the information a2- Tamkeen Students from get on me Knowledge and understanding for examples About systems the information in various ways its forms a3- Empowerment Students from get on me Knowledge and understanding About material analysis Organized	

a4- Empowerment Students from get on me Knowledge and understanding No matter issues that Belonging to systems the information a5- Empowerment Students from get on me Knowledge and understanding to analyze and interpretation issues material analysis Organized a6- Empowerment Students from get on me Knowledge and understanding Bahm Sources and references study analysis Organized
B – Objectives Marathi own By decision. B1 – compare between Species analysis Organized different B2 – Analyze material analysis Organized And explains Her reasons . B3 – Apply writing paper or Search in Theme from Topics analysis Organized B4- Collect information About analysis Organized and systems the information
modalities education and learning
1. Supply Students With the basics and topics related Analyze Organized . 2. Clarification And explain Subject tuition from Before Mr. Subject 3. Claim Students visit the library examining on me Sources study analysis Organized .
modalities Evaluation
1. Tests daily with questions specific 2. Lay grades for assignments household and posts class . 3. Tests monthly with questions objectivity and frying pan
C- Objectives Sentimental and value c1- That explains And he analyzes evidence for analysis Organized of all kinds . c2- differentiate between nature analysis Organized of all kinds . c3- He resides Some texts and information About analysis Organized . c4- Compare between analysis Organized systems the information.
modalities education and learning

1. Method Solution the problems. 2. storm mental . 3. method simulation					
modalities Evaluation					
1. The exam Editorial To measure capacity requester on me thinking and analysis conclusion. 2. writing Research About Some Examples analysis Organized. 3. exams daily with guidance Questions intellectual and deductive.					
Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). Dr1- It is used Sources and references contemporary. Dr2- formation a group from Students to study analysis Organized and systems the information Dr3- Statement from institutions Country Same Relationship Analyze Organized to increase acquaintances Students and distribute it. Dr4- Statement from centers documents and libraries that Contains on me manuscripts and documents analysis Organized					
structure scheduled					
the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation
the first	3	Enable Students from Understanding the system and analyze it	analysis and design System	lecture And casting	participation class
The second	3	Enable Students from knowledge analyzer systems	analyzer systems	lecture And casting	participation class

Third	3	Enable Students from save Forms About Cycle Life Development systems	Cycle Life Development systems	lecture And casting	participation class
the fourth	3	Enable Students from knowledge requirements System the information	requirements System the information	lecture And casting	participation class
Fifth	3	the definition With all Specifications the system in detail	Specifications the system from During analysis the system	lecture And casting	participation class
VI	3	Enable Students from knowledge patterns Design System the information	Design System the information It includes interface the user and lists and systems sub	lecture And casting	participation class
VII			the exam monthly		
structure substratum					
1 books assessed required			– analysis and design Organized the information – analysis and design systems		
2 the reviewer Main (Sources)			analysis Organized , Dr Saad Ghalib Yassen. analysis and design systems , Slave The sustenance safety		
a books and references that recommend with it (Journals			Claim Students in numbers reports monthly About themes that They		

Scientific , reports ,....)	study it
B – the reviewer Electronic, sites the internet	– Location Archives – Location allure – Location Our library Arabic
plan Development scheduled scholastic	
1. Work on me Polarization Masters from universities other to throw Lectures Scientific specialized Analyze Organized . 2. assignment Students Achievement Research study field what suffer language anti from problems social And psychology and put Solutions effective for those the problems and tackle phenomena that He suffers Of which Darso analysis Organized	

M. Ban Jawad Kazem

Course description form

This course description provides a necessary summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made the most of the available learning opportunities. It must be linked to the program description.;	
Enterprise educational	College Education the basic
Section Scientific / Center	Calculators
Noun / Code scheduled	engineering software

shapes Attendees available	Is mandatory
the classroom / the year	the classroom scholastic The second / the year Third
number hours tuition (total)	30 hours
Date Preparation this the description	1/ 10/ 2023
Goals scheduled	
Understand the basic concepts of computer programming	
Understand the basic stages in data structures and algorithms	
3- Identify and achieve the life cycle of software operations	
Infer system specifications from software requirements	
Provide clear analysis and design of the system using toolsCASE in software engineering	
outputs scheduled and modalities education and learning and evaluation	
A- Objectives Cognitive a1- Tamkeen Students from get on me Knowledge and understanding from During absorb and analysis material	

engineering software a2- Tamkeen Students from get on me Knowledge and understanding for examples About engineering software in various ways its forms a3- Empowerment Students from get on me Knowledge and understanding About material engineering software a4- Empowerment Students from get on me Knowledge and understanding No matter issues that Belonging to engineering software a5- Empowerment Students from get on me Knowledge and understanding to analyze and interpretation issues material engineering software a6- Empowerment Students from get on me Knowledge and understanding Bahm Sources and references study engineering software

B – Objectives Marathi own By decision. B1 – compare between Species engineering software different B2 – Analyze material engineering software And explains Her reasons . B3 – Apply writing paper or Search in Theme from Topics engineering software B4- Collect information About engineering software

modalities education and learning

1. Supply Students With the basics and topics related engineering software. 2. Clarification And explain Subject tuition from Before Mr. Subject 3. Claim Students visit the library examining on me Sources study engineering software.

modalities Evaluation

1. Tests daily with questions specific 2. Lay grades for assignments household and posts class . 3. Tests monthly with questions objectivity and frying pan

C- Objectives Sentimental and value c1- That explains And he analyzes engineering software of all kinds . c2- differentiate between nature engineering software of all kinds . c3- He resides Some texts and information About engineering software . c4- Compare between engineering software.

modalities education and learning					
1. Method Solution the problems. 2. storm mental . 3. method simulation					
modalities Evaluation					
1. The exam Editorial To measure capacity requester on me thinking and analysis conclusion. 2. writing Research About Some Examples engineering software. 3. exams daily with guidance Questions intellectual and deductive.					
Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). Dr1- It is used Sources and references contemporary. Dr2- formation a group from Students to study engineering software Dr3- Statement from institutions Country Same Relationship engineering software to increase acquaintances Students and distribute it. Dr4- Statement from centers documents and libraries that Contains on me manuscripts and documents on me engineering software					
structure scheduled					
the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation
the first	3	Enable Students from Understanding engineering software	Administration proces engineering software	lecture And casting	participation class
The	3	Enable Students from knowledge safety	safety Organized Calculators	lecture And	participation

second		Organized Calculators		casting	class
Third	3	Enable Students from save Forms About Cycle Life Development engineering software	Cycle Life Development engineering software	lecture And casting	participation class
the fourth	3	Enable Students from knowledge setting Quality software	setting Quality software	lecture And casting	participation class
Fifth	3	the definition With all Specifications the system in detail	Specifications the system from During Development rapid software	lecture And casting	participation class
VI	3	Enable Students from knowledge Administration project software	Administration project software	lecture And casting	participation class
VII			the exam monthly		
structure substratum					
1 books assessed required			– engineering software – Phase engineering software		
2 the reviewer Main (Sources)			engineering software , Basim Abdullah. Cycle Life engineering software , Bassam caps. .		

a books and references that recommend with it (Journals Scientific , reports ,....)	Claim Students in numbers reports monthly About themes that They study it
B – the reviewer Electronic, sites the internet	– Location Archives – Location allure – Location Our library Arabic
plan Development scheduled scholastic	
1. Work on me Polarization Masters from universities other to throw Lectures Scientific specialized engineering software . 2. assignment Students Achievement Research study field what suffer language anti from problems social And psychology and put Solutions effective for those the problems and tackle phenomena that He suffers Of which Darso analysis Organized	

M. Ban Jawad Kazem

Course description form
Course description

This course description provides a necessary summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made the most of the available learning opportunities. It must be linked to the program description.;	
Enterprise educational	College Education the basic
Section Scientific / Center	Calculators

Noun / Code scheduled	structures data
shapes Attendees available	Is mandatory
the classroom / the year	the classroom scholastic the first / the year the second
number hours tuition (total)	30 hours
Date Preparation this the description	1/ 10/ 2023
Goals scheduled	
Understand the basic concepts of analyzing and developing data structures in the calculator	
Understand the basic stages in the formation of data structures	
3. Identify and obtain data structures requirements	
Infer the specification of the graphic structure by analyzing the data	
Provide clear analysis and design of a graphical structure using charts	
outputs scheduled and modalities education and learning and evaluation	

A- Objectives Cognitive a1- Tamkeen Students from get on me Knowledge and understanding from During absorb and analysis material structures data a2- Tamkeen Students from get on me Knowledge and understanding for examples About structures data in various ways its forms a3- Empowerment Students from get on me Knowledge and understanding About material structures data a4- Empowerment Students from get on me Knowledge and understanding No matter issues that Belonging to structures data a5- Empowerment Students from get on me Knowledge and understanding to analyze and interpretation issues material structures data a6- Empowerment Students from get on me Knowledge and understanding Bahm Sources and references study structures data

B – Objectives Marathi own By decision. B1 – compare between Species structures data different B2 – Analyze material structures data And explains Her reasons . B3 – Apply writing paper or Search in Theme from Topics structures data B4- Collect information About structures data and structures data

modalities education and learning

1. Supply Students With the basics and topics related with structures data . 2. Clarification And explain Subject tuition from Before Mr. Subject 3. Claim Students visit the library examining on me Sources study structures data .

modalities Evaluation

1. Tests daily with questions specific 2. Lay grades for assignments household and posts class . 3. Tests monthly with questions objectivity and frying pan

C- Objectives Sentimental and value c1- That explains And he analyzes evidence for structures data of all kinds . c2- differentiate between nature structures data of all kinds . c3- He resides Some texts and information About structures data . c4- Compare between

structures data structures data.					
modalities education and learning					
1. Method Solution the problems. 2. storm mental . 3. method simulation					
modalities Evaluation					
1. The exam Editorial To measure capacity requester on me thinking and analysis conclusion. 2. writing Research About Some Examples structures data. 3. exams daily with guidance Questions intellectual and deductive.					
Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). Dr1- It is used Sources and references contemporary. Dr2- formation a group from Students to study and structures data Dr3- Statement from institutions Country Same Relationship with structures data to increase acquaintances Students and distribute it. Dr4- Statement from centers documents and libraries that Contains on me manuscripts and documents structures data					
structure scheduled					
the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation
the first	3	Enable Students from Understanding structures graphic and analyze it	analysis and design structures graphic	lecture And casting	participation class

The second	3	Enable Students from knowledge structures data	analyzer systems	lecture And casting	participation class
Third	3	Enable Students from save Forms About acting data	Forms About acting data	lecture And casting	participation class
the fourth	3	Enable Students from knowledge requirements structures evidence	requirements structures data	lecture And casting	participation class
Fifth	3	the definition With all Specifications the structure My statement in detail	Specifications the structure My statement from During analysis the structure My statement	lecture And casting	participation class
VI	3	Enable Students from knowledge patterns Design structure My statement the information	Design structure My statement the information It includes interface the user and lists and systems sub	lecture And casting	participation class
VII			the exam monthly		
structure substratum					
1 books assessed required				– structures data – datastructure	

2 the reviewer Main (Sources)	structures data , Dr Essam yolk. Data structure, john annie smith
a books and references that recommend with it (Journals Scientific , reports ,....)	Claim Students in numbers reports monthly About themes that They study it
B – the reviewer Electronic, sites the internet	– Location Archives – Location allure – Location Our library Arabic
plan Development scheduled scholastic	
1. Work on me Polarization Masters from universities other to throw Lectures Scientific specialized with structures data . 2. assignment Students Achievement Research study field what suffer language anti from problems social And psychology and put Solutions effective for those the problems and tackle phenomena that He suffers Of which They studied structures data	

M. Yasser Ali Mutni

Course description form
Course description

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

Enterprise educational	College Education the basic
Section Scientific / Center	Calculators
Noun / Code scheduled	Research Processes
shapes Attendees available	Is mandatory
the classroom / the year	the classroom scholastic the first / the year Third
number hours tuition (total)	30 hours
Date Preparation this the description	1/ 10/ 2023
Goals scheduled	
Understand the basic concepts of analyzing and developing data structures in the calculator	
Understand the basic stages in the formation of data structures	
3. Identify and obtain data structures requirements	
Infer operations research specifications through data analysis	

Provide clear analysis and design for operations research using diagrams
outputs scheduled and modalities education and learning and evaluation
A- Objectives Cognitive a1- Tamkeen Students from get on me Knowledge and understanding from During absorb and analysis material Research Processes a2- Tamkeen Students from get on me Knowledge and understanding for examples About Research Processes in various ways its forms a3- Empowerment Students from get on me Knowledge and understanding About material Research Processes a4- Empowerment Students from get on me Knowledge and understanding No matter issues that Belonging to Research Processes a5- Empowerment Students from get on me Knowledge and understanding to analyze and interpretation issues material Research Processes a6- Empowerment Students from get on me Knowledge and understanding Bahm Sources and references study Research Processes
B – Objectives Marathi own By decision. B1 – compare between Species Research Processes different B2 – Analyze material Research Processes And explains Her reasons . B3 – Apply writing paper or Search in Theme from Topics Research Processes B4- Collect information About Research Processes and research Processes
modalities education and learning
1. Supply Students With the basics and topics related researches Processes . 2. Clarification And explain Subject tuition from Before Mr. Subject 3. Claim Students visit the library examining on me Sources study Research Processes .
modalities Evaluation
1. Tests daily with questions specific 2. Lay grades for assignments household and posts class . 3. Tests monthly with questions objectivity

and frying pan					
C- Objectives Sentimental and value c1- That explains And he analyzes evidence for research Processes of all kinds . c2- differentiate between nature Research Processes of all kinds . c3- He resides Some texts and information About Research Processes . c4- Compare between Research Processes Research Processes.					
modalities education and learning					
1. Method Solution the problems. 2. storm mental . 3. method simulation					
modalities Evaluation					
1. The exam Editorial To measure capacity requester on me thinking and analysis conclusion. 2. writing Research About Some Examples Research Processes. 3. exams daily with guidance Questions intellectual and deductive.					
Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). Dr1- It is used Sources and references contemporary. Dr2- formation a group from Students to study and research Processes Dr3- Statement from institutions Country Same Relationship researches Processes to increase acquaintances Students and distribute it. Dr4- Statement from centers documents and libraries that Contains on me manuscripts and documents Research Processes					
structure scheduled					
the	hours	outputs learning required	Noun Unit / or Topic	method	method

week				education	Evaluation
the first	3	Enable Students from Understanding structures graphic and analyze it	analysis and design structures graphic	lecture And casting	participation class
The second	3	Enable Students from knowledge structures data	analyzer systems	lecture And casting	participation class
Third	3	Enable Students from save Forms About acting data	Forms About acting data	lecture And casting	participation class
the fourth	3	Enable Students from knowledge requirements structures evidence	requirements structures data	lecture And casting	participation class
Fifth	3	the definition With all Specifications research Processes in detail	Specifications research Processes from During analysis research Processes	lecture And casting	participation class
VI	3	Enable Students from knowledge patterns Design Research Processes the information	Design Research Processes the information It includes interface the user and lists and systems sub	lecture And casting	participation class
VII			the exam monthly		

structure substratum	
1 books assessed required	– structures data – datastructure
2 the reviewer Main (Sources)	Research Processes , Dr Essam yolk. Data structure, john annie smith
a books and references that recommend with it (Journals Scientific , reports ,....)	Claim Students in numbers reports monthly About themes that They study it
B – the reviewer Electronic, sites the internet	– Location Archives – Location allure – Location Our library Arabic
plan Development scheduled scholastic	
1. Work on me Polarization Masters from universities other to throw Lectures Scientific specialized researches Processes . 2. assignment Students Achievement Research study field what suffer language anti from problems social And psychology and put Solutions effective for those the problems and tackle phenomena that He suffers Of which They studied Research Processes	

M. Yasser Ali Mutni

Course description form
Course description

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

Enterprise educational	College Education the basic
Section Scientific / Center	Calculators
Noun / Code scheduled	techniques Calculator
shapes Attendees available	Is mandatory
the classroom / the year	the classroom scholastic second / year The first
number hours tuition (total)	3 * 15 = 45 hours
Date Preparation this the description	1/ 10/ 2023
Goals scheduled	
Introducing students to electronic and digital circuits	
Introduce the student to the central processing unit.	

3- Introduce the student to the memory unit and its management.
Introduce students to input, output and storage units.
Introducing the student to the generations of computers and their development throughout history.
Introducing students to programming languages and their levels
outputs scheduled and modalities education and learning and evaluation
A- Objectives Cognitive a1- Tamkeen Students from get on me Knowledge and understanding for generations Calculator and stages its evolution via History a2- Tamkeen Students from get on me Knowledge and understanding components Calculator a3- Empowerment Students from get on me Knowledge and understanding for devices component for the computer a4- Empowerment Students from get on me Knowledge and understanding software download the computer a5- Empowerment Students from get on me Knowledge and understanding for types devices the computer from where mission and size . a6- Empowerment Students from get on me Knowledge and understanding for languages Calculators software .
B – Objectives Marathi own By decision. B1 – Ability on me maintenance the computer B2 – ability on me Solution problems that face the user At Utilization Calculator . B3 – Enable requester on me Discrimination to type Calculator from where mission that get up with it B4- Ability requester on me Re Programming Calculator And inauguration Software
modalities education and learning

1. Supply Students With the basics and topics related Techniques Calculator . 2. Clarification And explain Subject tuition from Before Mr. Subject 3. Claim Students visit the library examining on me Sources study techniques Calculator .
modalities Evaluation
1. Tests daily with questions specific 2. Lay grades for assignments household and posts class . 3. Tests monthly with questions objectivity and frying pan
C- Objectives Sentimental and value c1- That explains And he analyzes evidence for techniques Calculator of all kinds . c2- differentiate between nature techniques Calculator of all kinds . c3- He resides Some texts and information About techniques Calculator . c4- Compare between techniques Calculator .
modalities education and learning
1. Method Solution the problems. 2. storm mental . 3. method simulation
modalities Evaluation
1. The exam Editorial To measure capacity requester on me thinking and analysis conclusion. 2. writing Research About Some Examples techniques Calculator. 3. exams daily with guidance Questions intellectual and deductive.
Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). Dr1- It is used Students vocabulary technological modern Dr2- make up groups to set up Relations together help Some Business positivity Dr3- He

managed Students from Development subjective continuous when distance graduation . Dr4- He managed Students from passing Tests
proces And professional organize from Before destinations local / regional / international

structure scheduled

the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation
1-2	6	Learn generations Calculator	generations Calculators	lecture And casting	Exam daily
3-4-5	9	Learn structure the computer	System the computer	lecture And casting	Questions interrogative
6-7	6	Learn Species Calculators	Species Calculators	lecture And casting	duty my house
8-9	6	knowledge devices Enter the information from Calculator	devices input	diction and interrogation	Exam daily
10-11	6	knowledge devices Directed by the information from Calculator	devices directing	lecture And casting	Questions interrogative
12-13	6	knowledge devices memory and their ratings	devices memory	And casting and	duty my house

				interrogation	
14-15	6	knowledge How to treat data in Healer	Alone processing central	lecture And casting	Exam sudden
structure substratum					
readings required texts the basic books scheduledother		ingredients the computer profileComputer skills and applicationsPrinciples of computer science			
requirements Especially		Accommodation courses Training in area uses the computer and its techniques .Accommodation courses training to use the network arachnoidAccommodation Seminars and conferences Scientific and cultural			
a books and references that recommend with it (Journals Scientific , reports ,....)		Claim Students in numbers reports monthly About themes that They study it			
B – the reviewer Electronic, sites the internet		– Location Archives – Location allure – Location Our library Arabic			
plan Development scheduled scholastic					
1. Work on me Polarization Masters from universities other to throw Lectures Scientific specialized Techniques Calculator . 2. assignment					

Students Achievement Research study field what suffer language anti from problems social And psychology and put Solutions effective for those the problems and tackle phenomena that He suffers Of which They studied techniques Calculator

Mother. Intisar Yassin Khudair

Course description form
Course description

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

Enterprise educational	University Diyala
Section Scientific / Center	College Education the basic
Noun / Code scheduled	Internet and powerpoint
shapes Attendees available	Is mandatory
the classroom / the year	2020-2023
number hours tuition (total)	2 * 15 = 30

Date Preparation this the description	1/ 10/ 2023
Goals scheduled that is being requester knowledgeable with concepts coming	
1- Students should know what computer networks are and effectively enable them to carry out searches within the network	
2- He learns ways to withdraw sources, programs and images	
3- Students should know how to create ready-made presentations	
4 -To familiarize students with the methods of memorizing and printing	
5 – That students become acquainted with the methods of creating e-mail and methods of security and protection	
outputs scheduled and modalities education and learning and evaluation	
A- Objectives Cognitive a1- Tamkeen Students from get on me Knowledge and understanding principles Internet a2- Tamkeen Students from get on me basics in a program fallow Point a3- Increase Awareness I have Students on me Importance Utilization the computer And program it with a picture General a4- Empowerment Students on me build up Mail electronic private them a5- Empowerment Students from	

Utilization Slices an offer fallow Point a6-
B – Objectives Marathi own By decision. B1 – an increase portability Students on me the speed in Utilization Network Internet B2 – increase portability Students on me Adaptation With all programs and applications available on me the network B3 – increase portability Students on me Learn skills own in apps networks like Mail electronic B4- Increase portability Students on me Learn skills own by networks like to withdraw Sources and books
modalities education and learning
in Start the classroom Being inform Students vocabulary scheduled scholastic and sources the information (Books Same Relationship , periodicals , Messages undergraduate) and distributed vocabulary on me weeks the classroom study, and methods Calendar that will run followed , my agencies: 1. Initialize Lectures According to sequence Which rose in scheduled scholastic About road help with sources the information precedent The remembrance. 2. Notify Students About Theme lecture coming with intent config. 3. Demand from Students Submit Leaves Belonging to subject or More from themes restriction studying.
modalities Evaluation
1. Conduct two exams two quarters the first distance expiration the week Fifth from the classroom scholastic And the second distance the week atheistic ten from the classroom scholastic and considerate in All Exam levels mental (Remember , application, exploration) where Degree Calendar to her 40% of achievement total on me that Takes I see consideration perseverance requester and volume Share it daily. 2. Exam End the classroom scholastic And for him 60% of achievement According timings Ministry And take into account At put questions inclusivity content scheduled scholastic and levels mental (Remember , application, exploration).

C- Objectives Sentimental and value c1- You know Students on me ingredients the basic to network Internet c2- You know Students on me How deal With networks and its applications different c3- You know Students on me How deal With a program offers fallow Point c4- Get acquainted on me the network arachnoid And how search and withdraw Sources and knock download					
modalities education and learning					
Uses Usually style education direct where Done education skills in a form direct And frank booster By examples for stages education Basis					
modalities Evaluation					
Come inclusive With operations Evaluation By decision scholastic that Obtain during and end the classroom scholastic.					
Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). Dr1- Employment skills earned in education Knowledge I have Students Stage education Basis. Dr2-choice Examples from courses education Basis And to each Of which skills that eat it scheduled scholastic. Dr3-Evaluation Bezel acquisition pupils education Basis for skills application. Dr4- Building Tests Especially domains thinking for pupils Stage education Basis.					
structure scheduled					
the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation
1	2	an introduction About Inter net and	an introduction About Inter net and	Discussion and interrogation	calendar

		browse web	browse web		structural
2	2	to withdraw Sources and programs and photos	to withdraw Sources and programs and photos	Discussion and interrogation	calendar structural
3	2	formation Box Mail electronic and messaging	formation Box Mail electronic and messaging	Discussion and interrogation	calendar structural
4	2	Safety and protection	Safety and protection	Discussion and interrogation	calendar structural
5	2	change settings Inter net	change settings Inter net	Discussion and interrogation	calendar structural
6	2	Test Monthly	Test Monthly	_____	calendar structural
7	2	employment fallow Point and create an offer introductory new	employment fallow Point and create an offer introductory new	Discussion and interrogation	calendar structural
8	2	build up Offers introductory using Templates design	build up Offers introductory using Templates design	Discussion and interrogation	calendar structural

9	2	to open an offer introductory new to open an offer introductory Existing Previously	to open an offer introductory new to open an offer introductory Existing Previously	Discussion and interrogation	calendar structural
10	2	Release and arrange offers introductory	Release and arrange offers introductory	Discussion and interrogation	calendar structural
11	2	Preservation and print	Preservation and print	Discussion and interrogation	calendar structural
12	2	change Design Width Presentation entire	change Design Width Presentation entire	Discussion and interrogation	calendar structural
13	2	Modification and transfer texts And add Business Artistic	Modification and transfer texts And add Business Artistic	Discussion and interrogation	calendar structural
14	2	Utilization Notes talker and get out from the program	Utilization Notes talker and get out from the program	Discussion and interrogation	calendar structural
15	2	Test Monthly	Test Monthly	_____	calendar structural
structure substratum					

1 books assessed required	Nothing
2 the reviewer Main (Sources)	Internet basics PowerPoint basics
a books and references that recommend with it (Journals Scientific , reports ,....)	Benefit from periodicals and resources related to the course
B – the reviewer Electronic, sites the internet	Benefit from the international information network as well-known sources
plan Development scheduled scholastic	
1. Done Development scheduled According to requirements Which Appear in Development curricula in Phase education Basis 2. Done Development scheduled According to requirements Which Appear in Development curricula in the system Global 3. Accreditation on me courses that issued from Commission sectoral And you are orphaned Suggestion from Before colleges and universities	

Course description form
Course description

This course description provides a necessary summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made the most of the available learning opportunities. It must be linked to the program description.;	
Enterprise educational	University Diyala

Section Scientific / Center	College Education the basic
Noun / Code scheduled	basics System Employment Windows
shapes Attendees available	Is mandatory
the classroom / the year	2020-2023
number hours tuition (total)	2 * 15 = 30
Date Preparation this the description	1/ 10/ 2023
Goals scheduled that is being requester knowledgeable with concepts coming	
1- That the students know the concept of using the Windows system in an effective way that enables them to carry out computer work	
2- Increasing and expanding students' awareness of interacting with the software packages available from the Windows system	
3- Students should be familiar with the concept of using the programs attached to the operating systems	

outputs scheduled and modalities education and learning and evaluation
A- Objectives Cognitive a1- Tamkeen Students from get on me Knowledge and understanding principles System Employment Windows a2- Tamkeen Students from get on me basics System Employment Windows a3- Increase Awareness I have Students on me Importance Utilization the computer And program it with a picture General a4- a5- a6-
B – Objectives Marathi own By decision. B1 – an increase portability Students on me the speed And the sufficiency in Utilization System Employment Windows B2 – increase portability Students on me Adaptation With all programs and applications Ready made used in the computer B3 – increase portability Students on me Learn skills own in programs System Employment Windows B4-
modalities education and learning
in Start the classroom Being inform Students vocabulary scheduled scholastic and sources the information (Books Same Relationship , periodicals , Messages undergraduate) and distributed vocabulary on me weeks the classroom study, and methods Calendar that will run followed , my agencies: 1. Initialize Lectures According to sequence Which rose in scheduled scholastic About road help with sources the information precedent The remembrance. 2. Notify Students About Theme lecture coming with intent config. 3. Demand from Students Submit Leaves Belonging to subject or More from themes restriction studying.
modalities Evaluation
1. Conduct two exams two quarters the first distance expiration the week Fifth from the classroom scholastic And the second distance the

week atheistic ten from the classroom scholastic and considerate in All Exam levels mental (Remember , application, exploration) where Degree Calendar to her 40% of achievement total on me that Takes I see consideration perseverance requester and volume Share it daily. 2. Exam End the classroom scholastic And for him 60% of achievement According timings Ministry And take into account At put questions inclusivity content scheduled scholastic and levels mental (Remember , application, exploration).

C- Objectives Sentimental and value c1- You know Students on me ingredients the basic for a window the system c2- You know Students on me How deal With programs the system c3- You know Students on me How deal With windows the basic for the system c4- use And deal With the flash and printer And Elsie d

modalities education and learning

Uses Usually style education direct where Done education skills in a form direct And frank booster By examples for stages education Basis

modalities Evaluation

Come inclusive With operations Evaluation By decision scholastic that Obtain during and end the classroom scholastic.

Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). Dr1- Employment skills earned in education Knowledge I have Students Stage education Basis. Dr2-choice Examples from courses education Basis And to each Of which skills that eat it scheduled scholastic. Dr3-Evaluation Bezel acquisition pupils education Basis for skills application. Dr4- Building Tests Especially domains thinking for pupils Stage education Basis.

structure scheduled

the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation
1	2	Identify on me the computer and its components physical and software	Identify on me the computer and its components physical and software	Discussion and interrogation	calendar structural
2	2	Identify on me Face the user And how Close Calculator and re run it	Identify on me Face the user And how Close Calculator and re run it	Discussion and interrogation	calendar structural
3	2	ingredients Window a program roses	ingredients Window a program roses	Discussion and interrogation	calendar structural
4	2	deal With windows And change its diver and control in Methods an offer its contents	deal With windows And change its diver and control in Methods an offer its contents	Discussion and interrogation	calendar structural
5	2	existing clicked the button right and surface the desk and its contents and bar mission and list Start	existing clicked the button right and surface the desk and its contents and bar mission and list Start	Discussion and interrogation	calendar structural
6	2	Test Monthly	Test Monthly	_____	calendar structural

7	2	features Width and configure Folder and delete it and copy it	features Width and configure Folder and delete it and copy it	Discussion and interrogation	calendar structural
8	2	formation abbreviated shortcut And Survey Basket Recycle and method Return Recycle	formation abbreviated shortcut And Survey Basket Recycle and method Return Recycle	Discussion and interrogation	calendar structural
9	2	writing And save and open and copy And print and send the documents	writing And save and open and copy And print and send the documents	Discussion and interrogation	calendar structural
10	2	Identify on me Window (mycomputer)	Identify on me Window (mycomputer)	Discussion and interrogation	calendar structural
11	2	Identify on me Window (window explorer)	Identify on me Window (window explorer)	Discussion and interrogation	calendar structural
12	2	Identify on me Window (control panel)	Identify on me Window (control panel)	Discussion and interrogation	calendar structural
13	2	deal With CD and flash and printer	deal With CD and flash and printer	Discussion and interrogation	calendar structural
14	2	viruses	viruses	Discussion and interrogation	calendar

					structural
15	2	Test Monthly	Test Monthly	_____	calendar structural
structure substratum					
1 books assessed required			Nothing		
2 the reviewer Main (Sources)			Windows operating system7 Windows operating system8		
a books and references that recommend with it (Journals Scientific , reports ,....)			Benefit from periodicals and resources related to the course		
B – the reviewer Electronic, sites the internet			Benefit from the international information network as well-known sources		
plan Development scheduled scholastic					
1. Done Development scheduled According to requirements Which Appear in Development curricula in Phase education Basis 2. Done Development scheduled According to requirements Which Appear in Development curricula in the system Global 3. Accreditation on me courses that issued from Commission sectoral And you are orphaned Suggestion from Before colleges and universities					

Course description form
Course description

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

Enterprise educational	College Education the basic
Section Scientific / Center	Calculators
Noun / Code scheduled	structures intermittent
shapes Attendees available	Is mandatory
the classroom / the year	the classroom scholastic second / year The first
number hours tuition (total)	30 hours
Date Preparation this the description	1/ 10/ 2023
Goals scheduled	
Understand the basic concepts of analysis and development of discrete structures in the calculator	

Understand the basic stages in the formation of discontinuous structures
3. Identify and collect requirements for discontinuous structures
Infer the specification of the graphic structure by analyzing the data
Provide clear analysis and design of a graphical structure using charts
outputs scheduled and modalities education and learning and evaluation
A- Objectives Cognitive a1- Tamkeen Students from get on me Knowledge and understanding from During absorb and analysis material structures intermittent a2- Tamkeen Students from get on me Knowledge and understanding for examples About structures intermittent in various ways its forms a3- Empowerment Students from get on me Knowledge and understanding About material structures intermittent a4- Empowerment Students from get on me Knowledge and understanding No matter issues that Belonging to structures intermittent a5- Empowerment Students from get on me Knowledge and understanding to analyze and interpretation issues material structures intermittent a6- Empowerment Students from get on me Knowledge and understanding Bahm Sources and references study structures intermittent
B – Objectives Marathi own By decision. B1 – compare between Species structures intermittent different B2 – Analyze material structures intermittent And explains Her reasons . B3 – Apply writing paper or Search in Theme from Topics structures intermittent B4- Collect information About structures intermittent and structures intermittent
modalities education and learning

1. Supply Students With the basics and topics related with structures intermittent . 2. Clarification And explain Subject tuition from Before Mr. Subject 3. Claim Students visit the library examining on me Sources study structures intermittent .
modalities Evaluation
1. Tests daily with questions specific 2. Lay grades for assignments household and posts class . 3. Tests monthly with questions objectivity and frying pan
C- Objectives Sentimental and value c1- That explains And he analyzes evidence for structures intermittent of all kinds . c2- differentiate between nature structures intermittent of all kinds . c3- He resides Some texts and information About structures intermittent . c4- Compare between structures intermittent structures intermittent.
modalities education and learning
1. Method Solution the problems. 2. storm mental . 3. method simulation
modalities Evaluation
1. The exam Editorial To measure capacity requester on me thinking and analysis conclusion. 2. writing Research About Some Examples structures intermittent. 3. exams daily with guidance Questions intellectual and deductive.

Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). Dr1- It is used Sources and references contemporary. Dr2- formation a group from Students to study and structures intermittent Dr3- Statement from institutions Country Same Relationship with structures intermittent to increase acquaintances Students and distribute it. Dr4- Statement from centers documents and libraries that Contains on me manuscripts and documents structures intermittent

structure scheduled

the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation
the first	3	Enable Students from Understanding structures graphic and analyze it	analysis and design structures graphic	lecture And casting	participation class
The second	3	Enable Students from knowledge structures intermittent	analyzer systems	lecture And casting	participation class
Third	3	Enable Students from save Forms About acting data	Forms About acting data	lecture And casting	participation class
the fourth	3	Enable Students from knowledge requirements structures evidence	requirements structures intermittent	lecture And casting	participation class

Fifth	3	the definition With all Specifications the structure My statement in detail	Specifications the structure My statement from During analysis the structure My statement	lecture And casting	participation class
VI	3	Enable Students from knowledge patterns Design structure My statement the information	Design structure My statement the information It includes interface the user and lists and systems sub	lecture And casting	participation class
VII			the exam monthly		
structure substratum					
1 books assessed required			– structures intermittent -discretemathamtics		
2 the reviewer Main (Sources)			structures intermittent ,		
a books and references that recommend with it (Journals Scientific , reports ,....)			Claim Students in numbers reports monthly About themes that They study it		
B – the reviewer Electronic, sites the internet			– Location Archives – Location allure – Location Our library Arabic		
plan Development scheduled scholastic					

1. Work on me Polarization Masters from universities other to throw Lectures Scientific specialized with structures intermittent . 2. assignment Students Achievement Research study field what suffer language anti from problems social And psychology and put Solutions effective for those the problems and tackle phenomena that He suffers Of which They studied structures intermittent

M. Zainab Qahtan Muhammad

Course description form
Course description

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

Enterprise educational	University Diyala / College to breed the basic
Section Scientific / Center	Section Scientific / Calculators
Noun / Code scheduled	Flag self the growth
shapes Attendees available	Is mandatory
the classroom / the year	The second / phase The first
number hours tuition (total)	45 hours

Date Preparation this the description	1/ 10/ 2023
Goals scheduled	
Understand and internalize the philosophy and principles of developmental psychology.	
Knowledge of the theoretical framework of growth.	
Defining the student what is the relationship between developmental psychology and human development in different stages	
Introducing students to the general laws of growth and their use in daily life.	
Introducing students to the characteristics, features and advantages of the stages of development that a person goes through.	
outputs scheduled and modalities education and learning and evaluation	
A- Objectives Cognitive a1- He knows Concept Flag self the growth . a2- Definition requester with theories Mental and pedagogical in the growth Cognitive a3- Explain for the student Importance Phase the growth that passes with it Human. a4- Explain for the student How deal	

With others. a5- Definition requester at best styles pedagogical to deal With Child. a6-
B – Objectives Marathi own By decision. B1 – applies writing paper or Search in any Theme from themes Flag self the growth . B2 – to collect information About phenomena and problems own by growth. B3 – decomposition Reasons problems the growth and confront it. B4-
modalities education and learning
supply Students With reasons and topics related with knowledge same the growth. Claim Students visit the library And see on me sites e to get on me knowledge extra with knowledge self the growth .Utilization modalities diction and the lecture and discussion.
modalities Evaluation
tests daily with questions specific.put grades To participate class.Assigned requester accomplished reports About Article tuition.tests monthly with questions objectivity and frying pan.
C- Objectives Sentimental and value c1- He realizes Importance Materials pedagogical. c2- He gives Importance for problems that You must Solutions A quick. c3- Practice activities pedagogical. c4-
modalities education and learning
method storming mental.fee charts guiding.Utilization method offers introductory.
modalities Evaluation

the exam Editorial To measure capacity requester on me thinking And imagine conclusion.Exams daily under guidance Questions court and deductive writing reports.

Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). Dr1- Skills Utilization the reviewer and jargon. Dr2- Skills Preparation concepts own About Topic Dr3- Skills Procedure comparisons About Topic. Dr4- Skills to exploit what Available from potential.

Mr. Dr. Abdul Razzaq Jadoua

Course description form
Course description

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

Enterprise educational	University Diyala
Section Scientific / Center	College Education the basic
Noun / Code scheduled	Processed microspheres
shapes Attendees available	Is mandatory

the classroom / the year	the classroom scholastic the first / the year the second
number hours tuition (total)	3 * 15 = 45
Date Preparation this the description	1/ 10/ 2023
Goals scheduled that is being requester knowledgeable with concepts coming	
1- Students should know what microprocessors are, the most important types, and the history of their development	
2- Increasing and expanding students' awareness of what is related to arithmetic and logical operations and addressing methods in Al-Mahalaj (8085)	
3- That the students recognize the most important instructions of the processor (8085) and learn about its parts and structure	
4- Students should be familiar with the most important sequential operations in execution in processors	
5 – Knowing the assembly language and the most important groups of instructions and writing program code	

outputs scheduled and modalities education and learning and evaluation
A- Objectives Cognitive a1- Tamkeen Students from get on me Knowledge and understanding principles wizards microspheres a2- Tamkeen Students from get on me basics wizards microspheres a3- Increase Awareness I have Students on me Importance Understanding else developments and updates on me wizards microspheres a4- Empowerment Students from get on me basics language compilation a5- a6-
B – Objectives Marathi own By decision. B1 – Excellence between Species wizards different And find out its structure B2 – Possibility Students on me Understanding language compilation and absorb Her orders B3 – know on me Structural Healer (8085)and date development wizards B4-
modalities education and learning
in Start the classroom Being inform Students vocabulary scheduled scholastic and sources the information (Books Same Relationship , periodicals , Messages undergraduate) and distributed vocabulary on me weeks the classroom study, and methods Calendar that will run followed , my agencies: 1. Initialize Lectures According to sequence Which rose in scheduled scholastic About road help with sources the information precedent The remembrance. 2. Notify Students About Theme lecture coming with intent config. 3. Demand from Students Submit Leaves Belonging to subject or More from themes restriction studying.
modalities Evaluation
from During the exams daily from During the exams weekly from During the exams monthly
C- Objectives Sentimental and value 1. Conduct two exams two quarters the first distance expiration the week Fifth from the classroom

scholastic And the second distance the week atheistic ten from the classroom scholastic and considerate in All Exam levels mental (Remember , application, exploration) where Degree Calendar to her 40% of achievement total on me that Takes I see consideration perseverance requester and volume Share it daily. 2. Exam End the classroom scholastic And for him 60% of achievement According timings Ministry And take into account At put questions inclusivity content scheduled scholastic and levels mental (Remember , application, exploration).					
modalities education and learning					
Uses Usually style education direct where Done education skills in a form direct And frank booster By examples for stages education Basis					
modalities Evaluation					
Come inclusive With operations Evaluation By decision scholastic that Obtain during and end the classroom scholastic.					
Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). Dr1- Employment skills earned in education Knowledge I have Students Stage education Basis. Dr2-choice Examples from courses education Basis And to each Of which skills that eat it scheduled scholastic. Dr3-Evaluation Bezel acquisition pupils education Basis for skills application. Dr4- Building Tests Especially domains thinking for pupils Stage education Basis.					
structure scheduled					
the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation

1	2	Introduction to MP architecture	Introduction to MP architecture	Discussion and interrogation	calendar structural
2	2	MP architecture and operation	MP architecture and operation	Discussion and interrogation	calendar structural
3	2	80,805 MP	80,805 MP	Discussion and interrogation	calendar structural
4	2	Introduction to 8085 instructions	Introduction to 8085 instructions	Discussion and interrogation	calendar structural
5	2	Data transfer operation	Data transfer operation	Discussion and interrogation	calendar structural
6	2	Test Monthly	Test Monthly	_____	calendar structural
7	2	Arithmetic operation	Arithmetic operation	Discussion and interrogation	calendar structural
8	2	logic operations	logic operations	Discussion and interrogation	calendar structural

9	2	branch operation	branch operation	Discussion and interrogation	calendar structural
10	2	Writing assembly language programme	Writing assembly language programme	Discussion and interrogation	calendar structural
11	2	Counter and time delays	Counter and time delays	Discussion and interrogation	calendar structural
12	2	Stock and subroutines	Stock and subroutines	Discussion and interrogation	calendar structural
13	2	Multiplication	Multiplication	Discussion and interrogation	calendar structural
14	2	Interrupts	Interrupts	Discussion and interrogation	calendar structural
15	2	Test Monthly	Test Monthly	_____	calendar structural

structure substratum	
1 books assessed required	Nothing
2 the reviewer Main (Sources)	Treatments8085 and 8086
a books and references that recommend with it (Journals Scientific , reports ,....)	Recent publications related to the study period
B – the reviewer Electronic, sites the internet	Local sites Arab sites global sites
plan Development scheduled scholastic	
.Complete Development scheduled According to requirements Which Appear in Development curricula in Phase education Basis 2. Done Development scheduled According to requirements Which Appear in Development curricula in the system Global 3. Accreditation on me courses that issued from Commission sectoral And you are orphaned Suggestion from Before colleges and universities	

M. Zainab Qahtan Muhammad

Course description form Course description

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

Enterprise educational	University Diyala
Section Scientific / Center	College Education the basic
Noun / Code scheduled	Package Microsoft rose (Organized ready)
shapes Attendees available	Is mandatory
the classroom / the year	the classroom scholastic second / year The first
number hours tuition (total)	$2 * 15 = 30$
Date Preparation this the description	1/ 10/ 2023
Goals scheduled that is being requester knowledgeable with concepts coming	
1- That the students recognize the concept of using the Word program in an effective way that enables them to do printing work	
2- Increasing and expanding students' awareness of interacting with ready-made office software packages provided by Microsoft	
3- That the students recognize the concept of using the document in the Word program	

outputs scheduled and modalities education and learning and evaluation
A- Objectives Cognitive a1- Tamkeen Students from get on me Knowledge and understanding principles microsoft rose a2- Tamkeen Students from get on me basics microsoft rose a3- Increase Awareness I have Students on me Importance Utilization the computer And program it with a picture General a4- a5- a6-
B – Objectives Marathi own By decision. B1 – an increase portability Students on me the speed in printing B2 – increase portability Students on me Adaptation With all programs and applications Ready made used in the computer B3 – increase portability Students on me Learn skills own in a program microsoft rose B4-
modalities education and learning
in Start the classroom Being inform Students vocabulary scheduled scholastic and sources the information (Books Same Relationship , periodicals , Messages undergraduate) and distributed vocabulary on me weeks the classroom study, and methods Calendar that will run followed , my agencies: 1. Initialize Lectures According to sequence Which rose in scheduled scholastic About road help with sources the information precedent The remembrance. 2. Notify Students About Theme lecture coming with intent config. 3. Demand from Students Submit Leaves Belonging to subject or More from themes restriction studying.
modalities Evaluation

1. Conduct two exams two quarters the first distance expiration the week Fifth from the classroom scholastic And the second distance the week atheistic ten from the classroom scholastic and considerate in All Exam levels mental (Remember , application, exploration) where Degree Calendar to her 40% of achievement total on me that Takes I see consideration perseverance requester and volume Share it daily. 2. Exam End the classroom scholastic And for him 60% of achievement According timings Ministry And take into account At put questions inclusivity content scheduled scholastic and levels mental (Remember , application, exploration).

C- Objectives Sentimental and value c1- You know Students on me ingredients the basic for a window the program c2- You know Students on me How deal With the document inside the program c3- You know Students on me How deal With tapes Main to the window c4- use tapes and tools available in the program

modalities education and learning

Uses Usually style education direct where Done education skills in a form direct And frank booster By examples for stages education Basis

modalities Evaluation

Come inclusive With operations Evaluation By decision scholastic that Obtain during and end the classroom scholastic.

Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). Dr1- Employment skills earned in education Knowledge I have Students Stage education Basis. Dr2-choice Examples from courses education Basis And to each Of which skills that eat it scheduled scholastic. Dr3-Evaluation Bezel acquisition pupils education Basis for skills application. Dr4- Building Tests Especially domains thinking for pupils Stage education Basis.

structure scheduled					
the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation
1	2	Identify on me a program roses and knock employment the program	Identify on me a program roses and knock employment the program	Discussion and interrogation	calendar structural
2	2	Methods Close files open within a program roses And fly s Close the program	Methods Close files open within a program roses And fly s Close the program	Discussion and interrogation	calendar structural
3	2	ingredients Window a program roses	ingredients Window a program roses	Discussion and interrogation	calendar structural
4	2	Writing in doc and specify shading Text	Writing in the document and specify	Discussion and interrogation	calendar

			shading Text		ar structu ral
5	2	Identify on me coordination Text from During ribbon the page Main	Identify on me coordination Text from During ribbon the page Main	Discussion and interrogation	calend ar structu ral
6	2	Test Monthly	Test Monthly	_____	calend ar structu ral
7	2	coordination cell Line include change size color Type Line make Writing black bold italics ruler alignment left to the right in the middle setting Writing	coordination cell Line include change size color Type Line make Writing black bold italics ruler alignment left to the right in the middle setting Writing	Discussion and interrogation	calend ar structu ral
8	2	Identify on me tapes the program the page Main tab Inclusions	Identify on me tapes the program the page Main tab Inclusions	Discussion and interrogation	calend ar structu ral

9	2	Identify on me tapes the program Planning the page tab the reviewer	Identify on me tapes the program Planning the page tab the reviewer	Discussion and interrogation	calend ar structu ral
10	2	Identify on me tapes the program tab Correspondence tab an offer	Identify on me tapes the program tab Correspondence tab an offer	Discussion and interrogation	calend ar structu ral
11	2	Identify on me tapes the program tab body tab the design	Identify on me tapes the program tab body tab the design	Discussion and interrogation	calend ar structu ral
12	2	Identify on me existing file	Identify on me existing file	Discussion and interrogation	calend ar structu ral
13	2	backing down to me a step to me successor back to me step suffix	backing down to me a step to me successor back to me step suffix	Discussion and interrogation	calend ar structu

					ral
14	2	preview Before printing and print Table All paper	preview Before printing and print Table All paper	Discussion and interrogation	calend ar structu ral
15	2	Test Monthly	Test Monthly	_____	calend ar structu ral
structure substratum					
1 books assessed required			Nothing		
2 the reviewer Main (Sources)			Microsoft Rose2010		
a books and references that recommend with it (Journals Scientific , reports ,....)			Benefit from periodicals and resources related to the course		

B – the reviewer Electronic, sites the internet	Benefit from the international information network as well-known sources
plan Development scheduled scholastic	
1. Done Development scheduled According to requirements Which Appear in Development curricula in Phase education Basis 2. Done Development scheduled According to requirements Which Appear in Development curricula in the system Global 3. Accreditation on me courses that issued from Commission sectoral And you are orphaned Suggestion from Before colleges and universities	

M. Yasser Ali Mutni

Course description form

Course description

This course description provides a necessary summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made the most of the available learning opportunities. It must be linked to the program description.;	
Enterprise educational	University Diyala
Section Scientific / Center	College Education the basic

Noun / Code scheduled	Package Microsoft Offs
shapes Attendees available	Is mandatory
the classroom / the year	2020-2023
number hours tuition (total)	3 * 15 = 45
Date Preparation this the description	1/ 10/ 2023
Goals scheduled that is being requester knowledgeable with concepts coming	
1- That the students recognize the concept of using the Excel program in an effective way that enables them to do mathematical, statistical and logical work.	
2- Increasing and expanding students' awareness of interacting with ready-made office software packages provided by Microsoft	
3- That the students recognize the concept of using the wordpress program	
4- That the students become acquainted with the concept of using the Word program in an effective way, enabling them to use the toolbars	
5- To familiarize the students with the concept of using the PowerPoint presentations program	

6- That the students become familiar with the concept of using presentation slides within the PowerPoint program, which enables them to make presentation projects
outputs scheduled and modalities education and learning and evaluation
A- Objectives Cognitive a1- Tamkeen Students from get on me Knowledge and understanding principles microsoft Offs a2- Tamkeen Students from get on me basics microsoft Offs a3- Increase Awareness I have Students on me Importance Utilization the computer And program it with a picture General
B – Objectives Marathi own By decision. B1 – an increase portability Students on me the speed in printing And a procedure Processes sports and statistic B2 – increase portability Students on me Adaptation With all programs and applications Ready made used in the computer B3 – increase portability Students on me Learn skills own in a program microsoft Offs B4-
modalities education and learning
in Start the classroom Being inform Students vocabulary scheduled scholastic and sources the information (Books Same Relationship , periodicals , Messages undergraduate) and distributed vocabulary on me weeks the classroom study, and methods Calendar that will run followed , my agencies: 1. Initialize Lectures According to sequence Which rose in scheduled scholastic About road help with sources the information precedent The remembrance. 2. Notify Students About Theme lecture coming with intent config. 3. Demand from Students Submit Leaves Belonging to subject or More from themes restriction studying.

modalities Evaluation
1. Conduct two exams two quarters the first distance expiration the week Fifth from the classroom scholastic And the second distance the week atheistic ten from the classroom scholastic and considerate in All Exam levels mental (Remember , application, exploration) where Degree Calendar to her 40% of achievement total on me that Takes I see consideration perseverance requester and volume Share it daily. 2. Exam End the classroom scholastic And for him 60% of achievement According timings Ministry And take into account At put questions inclusivity content scheduled scholastic and levels mental (Remember , application, exploration).
C- Objectives Sentimental and value c1- You know Students on me ingredients the basic system microsoft Offs c2- You know Students on me How deal With doc inside a program roses c3- You know Students on me How deal With tapes Main for windows the system c4- use functions and formulas arithmetic and performances introductory and docs typography
modalities education and learning
Uses Usually style education direct where Done education skills in a form direct And frank booster By examples for stages education Basis
modalities Evaluation
Come inclusive With operations Evaluation By decision scholastic that Obtain during and end the classroom scholastic.
Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). Dr1- Employment skills earned in education Knowledge I have Students Stage education Basis. Dr2-choice Examples from courses education Basis And to

each Of which skills that eat it scheduled scholastic. Dr3-Evaluation Bezel acquisition pupils education Basis for skills application. Dr4- Building Tests Especially domains thinking for pupils Stage education Basis.

structure scheduled

the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation
1	2	Identify on me a program Excel and knock employment the program	Identify on me a program Excel and knock employment the program	Discussion and interrogation	calendar structural
2	2	Methods Close files open within a program Excel And fly s Close the program	Methods Close files open within a program Excel And fly s Close the program	Discussion and interrogation	calendar structural
3	2	ingredients Window a program Excel	ingredients Window a program Excel	Discussion and interrogation	calendar structural

					ural
4	2	Writing in paper the work and specify shading Text	Writing in paper the work and specify shading Text	Discussion and interrogation	calend ar struct ural
5	2	Identify on me coordination Text from During ribbon the page Main	Identify on me coordination Text from During ribbon the page Main	Discussion and interrogation	calend ar struct ural
6	2	Test Monthly	Test Monthly	_____	calend ar struct ural
7	2	Identify on me a program roses and knock employment the program	Identify on me a program Excel and knock employment the program	Discussion and interrogation	calend ar struct ural
8	2	Methods Close files open within a	Methods Close files open within a	Discussion and interrogation	calend

		program roses And fly s Close the program	program roses And fly s Close the program		ar struct ural
9	2	Identify on me tapes the program the page Main tab Inclusions	Identify on me tapes the program the page Main tab Inclusions	Discussion and interrogation	calend ar struct ural
10	2	Identify on me tapes the program Planning the page tab the reviewer	Identify on me tapes the program Planning the page tab the reviewer	Discussion and interrogation	calend ar struct ural
11	2	Identify on me tapes the program tab Correspondence tab an offer	Identify on me tapes the program tab Correspondence tab an offer	Discussion and interrogation	calend ar struct ural
12	2	Identify on me existing file	Identify on me existing file	Discussion and interrogation	calend ar struct ural

13	2	employment fallow Point and create an offer introductory new	employment fallow Point and create an offer introductory new	Discussion and interrogation	calend ar struct ural
14	2	build up Offers introductory using Templates design	build up Offers introductory using Templates design	Discussion and interrogation	calend ar struct ural
15	2	Test Monthly	Test Monthly	_____	calend ar struct ural
structure substratum					
1 books assessed required			Nothing		
2 the reviewer Main (Sources)			Microsoft2010 Microsoft2007		
a books and references that recommend with it (Journals Scientific , reports ,....)			Benefit from periodicals and resources related to the course		

B – the reviewer Electronic, sites the internet	Benefit from the international information network as well-known sources
plan Development scheduled scholastic	
.Complete Development scheduled According to requirements Which Appear in Development curricula in Phase education Basis 2. Done Development scheduled According to requirements Which Appear in Development curricula in the system Global 3. Accreditation on me courses that issued from Commission sectoral And you are orphaned Suggestion from Before colleges and universities	

Course description form
Course description

This course description provides a necessary summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made the most of the available learning opportunities. It must be linked to the program description.;	
Enterprise educational	University Diyala
Section Scientific / Center	College Education the basic
Noun / Code scheduled	Package Microsoft Excel
shapes Attendees available	Is mandatory

the classroom / the year	the classroom scholastic second / year The first
number hours tuition (total)	2 * 15 = 30
Date Preparation this the description	1/ 10/ 2023
Goals scheduled that is being requester knowledgeable with concepts coming	
1- That the students recognize the concept of using the Excel program in an effective way that enables them to do mathematical, statistical and logical work.	
2- Increasing and expanding students' awareness of interacting with ready-made office software packages provided by Microsoft	
3- Students should know the concept of using mathematical formulas that include functions in the Excel program	
outputs scheduled and modalities education and learning and evaluation	

A- Objectives Cognitive a1- Tamkeen Students from get on me Knowledge and understanding principles microsoft Excel a2- Tamkeen Students from get on me basics microsoft Excel a3- Increase Awareness I have Students on me Importance Utilization the computer And program it with a picture General a4- a5- a6-

B – Objectives Marathi own By decision. B1 – an increase portability Students on me the speed in Achievement Processes Sports and statistic and logical B2 – increase portability Students on me Adaptation With all programs and applications Ready made used in the computer B3 – increase portability Students on me Learn skills own in a program microsoft Excel B4-

modalities education and learning

in Start the classroom Being inform Students vocabulary scheduled scholastic and sources the information (Books Same Relationship , periodicals , Messages undergraduate) and distributed vocabulary on me weeks the classroom study, and methods Calendar that will run followed , my agencies: 1. Initialize Lectures According to sequence Which rose in scheduled scholastic About road help with sources the information precedent The remembrance. 2. Notify Students About Theme lecture coming with intent config. 3. Demand from Students Submit Leaves Belonging to subject or More from themes restriction studying.

modalities Evaluation

1. Conduct two exams two quarters the first distance expiration the week Fifth from the classroom scholastic And the second distance the week atheistic ten from the classroom scholastic and considerate in All Exam levels mental (Remember , application, exploration) where Degree Calendar to her 40% of achievement total on me that Takes I see consideration perseverance requester and volume Share it daily. 2. Exam End the classroom scholastic And for him 60% of achievement According timings Ministry And take into account At put questions inclusivity content scheduled scholastic and levels mental (Remember , application, exploration).

C- Objectives Sentimental and value c1- You know Students on me ingredients the basic for a window the program c2- You know Students on me How deal With Leaves the work inside Adjective the one for the program c3- You know Students on me How deal With tapes Main to the window c4- use functions and formulas arithmetic					
modalities education and learning					
Uses Usually style education direct where Done education skills in a form direct And frank booster By examples for stages education Basis					
modalities Evaluation					
Come inclusive With operations Evaluation By decision scholastic that Obtain during and end the classroom scholastic.					
Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). Dr1- Employment skills earned in education Knowledge I have Students Stage education Basis. Dr2-choice Examples from courses education Basis And to each Of which skills that eat it scheduled scholastic. Dr3-Evaluation Bezel acquisition pupils education Basis for skills application. Dr4- Building Tests Especially domains thinking for pupils Stage education Basis.					
structure scheduled					
the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation

1	2	Identify on me a program Excel and knock employment the program	Identify on me a program Excel and knock employment the program	Discussion and interrogation	calendar structural
2	2	Methods Close files open within a program Excel And fly s Close the program	Methods Close files open within a program Excel And fly s Close the program	Discussion and interrogation	calendar structural
3	2	ingredients Window a program Excel	ingredients Window a program Excel	Discussion and interrogation	calendar structural
4	2	Writing in paper the work and specify shading Text	Writing in paper the work and specify shading Text	Discussion and interrogation	calendar structural
5	2	Identify on me coordination Text from During ribbon the page Main	Identify on me coordination Text from During ribbon the page Main	Discussion and interrogation	calendar structural

					ural
6	2	Test Monthly	Test Monthly	_____	calen dar struct ural
7	2	coordination cell Line include change size color Type Line make Writing black bold italics ruler alignment left to the right in the middle setting Writing	coordination cell Line include change size color Type Line make Writing black bold italics ruler alignment left to the right in the middle setting Writing	Discussion and interrogation	calen dar struct ural
8	2	Identify on me tapes the program the page Main tab Inclusions	Identify on me tapes the program the page Main tab Inclusions	Discussion and interrogation	calen dar struct ural
9	2	Identify on me tapes the program Planning the page tab Sources	Identify on me tapes the program Planning the page tab Sources	Discussion and interrogation	calen dar struct ural
10	2	Identify on me tapes the program tab	Identify on me tapes the program tab	Discussion and interrogation	calen

		formulas tab data	formulas tab data		dar struct ural
11	2	Identify on me tapes the program tab an offer tab the design	Identify on me tapes the program tab an offer tab the design	Discussion and interrogation	calen dar struct ural
12	2	formula ingredients formula Factors Comparison Utilization parentheses	formula ingredients formula Factors Comparison Utilization parentheses	Discussion and interrogation	calen dar struct ural
13	2	Definition of function build up formulas arithmetic	Definition of function build up formulas arithmetic	Discussion and interrogation	calen dar struct ural
14	2	build up Formula Includes function ready	build up Formula Includes function ready	Discussion and interrogation	calen dar struct ural

15	2	Test Monthly	Test Monthly		calen dar struct ural
structure substratum					
1 books assessed required			Nothing		
2 the reviewer Main (Sources)			Microsoft Excel2010		
a books and references that recommend with it (Journals Scientific , reports ,....)			Benefit from periodicals and resources related to the course		
B – the reviewer Electronic, sites the internet			Benefit from the international information network as well-known sources		
plan Development scheduled scholastic					
1. Done Development scheduled According to requirements Which Appear in Development curricula in Phase education Basis 2. Done Development scheduled According to requirements Which Appear in Development curricula in the system Global 3. Accreditation on me courses that issued from Commission sectoral And you are orphaned Suggestion from Before colleges and universities					

M. Aqil Thamer Jawad

Course description form
Course description

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

Enterprise educational	University Diyala / college Education the basic
Section Scientific / Center	to divide Calculators
Noun / Code scheduled	techniques pedagogical
programs that Enters In which	Ministry education Higher and search Scientific
shapes Attendees available	Is mandatory
the classroom – And the year	the classroom scholastic Fifth -the year Third
number hours tuition (total)	2 x 15 = 30
Date Preparation this the description	1/ 10/ 2023

9- Course Objectives: The student should be familiar with the following information and have the skills to use it in life problems		
The importance of educational methods and techniques, their concept and benefits		
Evolution of the concept of educational technology		
The role of communication theory in the development of the concept of technology		
Some educational aids and techniques – including audio aids and techniques (audio recordings, school radio, language laboratories, radio)		
Visual techniques (paintings, blackboards, illustrations, maps, globes, charts, slides, transparencies,)		
Audiovisual technologies (films of all kinds, educational television, video, educational cinema?, remote communication, closed-circuit television		
Satellites and the Internet.		
Technical skills in learning and training – Education design –		
outputs scheduled and modalities education and learning and evaluation		
A- Knowledge and understanding : 1-An Realize requester meaning of techniques pedagogical from where (define it, its roses in The		

Quran Generous And the biography prophetic/ 2- That Known requester Importance tech T pedagogical And its benefits 3- That Known requester How do Uses techniques pedagogical As a means help in education 4- That Known requester development techniques pedagogical 5- That He distinguishes requester between techniques pedagogical from where its types (audio, visual, audio visual) 6- That Known requester theory Connection And its role in proces learning 7- That Known requester Utilization the internet in Help on me get on me the information . 8- That Known requester How Action moons industrial in Transfer Knowledge 9- That Known requester How use techniques pedagogical At apply it in his field Practical

B – Objectives Marathi own subject that made up I have Students skills Utilization techniques pedagogical with all Its types and levels in domains the following: 1- Meaning techniques pedagogical from where (define it, its roses in The Quran Generous And the biography prophetic/ 2- He knows requester Importance tech T pedagogical And its benefits 3- He knows requester How do Uses techniques pedagogical As a means help in education 4- Distinguish requester between techniques pedagogical from where its types (audio, visual, audio visual) 5- He knows requester theory Connection And its role in proces learning 6- That Known requester Utilization the internet in Help on me get on me the information . 7- That Known requester How Action moons industrial in Transfer Knowledge

***modalities education and learning**

1-to use Usually style education direct to define With techniques pedagogical, where Done education techniques pedagogical in a form direct enhanced with examples About How use it in teaching mathematics to stage education Basis. 2-initialize Lectures According to sequence Which rose in scheduled scholastic About road help with sources the information precedent The remembrance. 3-Inform Students with a subject lecture suffix to configure. 4-Submit Students Leaves Belonging to subject or More from themes restriction the lesson.

***modalities Evaluation**

Come inclusive With operations Evaluation own at headquarters scholastic that Obtain during the classroom scholastic And the end of it.?					
C- Objectives Sentimental and value					
*modalities education and learning					
Uses Usually style education direct for techniques pedagogical where Done education skills own With techniques pedagogical from During use it and running And find out its characteristics and their features And how Width from through it and use it say Knowledge to me the pupils with a picture interesting And solidarity With scheduled tuition .					
*modalities Evaluation					
Come inclusive With operations Evaluation own By decision scholastic that you get during and end the classroom scholastic					
Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). 1- Employment techniques pedagogical in education Knowledge I have pupils Stage education Basis 2-use techniques pedagogical in give Examples from through it Complete Learn skills eat it scheduled scholastic 3- Evaluation Bezel acquisition the pupils in education Basis for skills Learn devices modern 4- Building Tests M During Utilization techniques pedagogical Especially with a subject the computer And how eat it with a picture interesting for pupils.					
structure scheduled					
the	hours	outputs learning required	Noun Unit / or Topic	method	method

week				education	Evaluation
1	2	Definition of means and techniques pedagogical. existence And definition with it By the Quran And the year antiseptic	Definition of means educational, first Instrument educational in The Quran	Discussion and interrogation	calendar structural
2	2	Importance means and techniques pedagogical	frail woo means Technology in education	Debate and questioning	calendar structural
3	2	development Concept techniques pedagogical	How do evolved means educational	Debate and questioning	calendar structural
4	2	Role theory Connection in Concept techniques pedagogical	theory Connection And its role in proces learning	Debate and questioning	calendar structural

5	2	Some means and techniques pedagogical	classification means and techniques pedagogical	Debate and questioning	calendar structural
6	2	Exam Monthly	Questions from Subject assessed	————	calendar structural
7	2	means and techniques audio	means that you hear By permission Utilization sense hearing	Debate and questioning	calendar structural
8	2	means and techniques visual	means that Complete Width to see by eye any Utilization sense sight	Debate and questioning	calendar structural
9	2	means and techniques audio visual	means that be audio And visual any Utilization my sense hearing And sight	Debate and questioning	calendar structural

					al
10	2	moons industrial and her work	Definition of by satellites industrial And how her job	Debate and questioning	calenda r structur al
11	2	the internet	Identify on the internet and network the information international And how Access for him and search and a receipt the information	Debate and questioning	calenda r structur al
12	2	Design education	How Design the program educational	Debate and questioning	calenda r structur al
13	2	the environment local and design techniques pedagogical	How Design techniques pedagogical from the environment local	Debate and questioning	calenda r structur al
14	2	Some devices Width	an offer devices Before students and operate it	Discussion	calenda

					r structur al
15	2	Some devices Width	an offer devices Before Students and running	Discussion	calenda r structur al
structure substratum					
1 books assessed required		There is no approved textbook for teaching, but a variety of sources are used to cover the theoretical aspect of the prescribed academic course			
2 the reviewer Main (Sources)		Nothing			
a books and references that recommend with it (Journals Scientific , reports ,....)		Books, periodicals and scientific research that deal with one or more parts of the subject			
B – the reviewer Electronic, sites the internet		All references pertaining to educational techniques and related to the subject matter of the subject			
plan Development scheduled scholastic					

M. Ahmed Adnan Ali Ghadeer
Course description form
Course description

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

Enterprise educational	Diyala University / College of Basic Education
Section Scientific / Center	Calculators
Noun / Code scheduled	guidance educational
shapes Attendees available	Is mandatory
the classroom / the year	the second
number hours tuition (total)	30 hours
Date Preparation this the description	1/ 10/ 2023
Goals scheduled	

1- An introduction to religious stories about educational guidance in Islamic thought from the Qur'an and Sunnah.
2- Identifying the most prominent educational counseling theories.
3- To make the student aware of the ethics of extension work.
4- Identifying the means and tools for collecting information in educational counseling.
5- The student's knowledge of the methods and methods of educational counseling.
5- Recognizing the guiding professional relationship.
6- Recognizing the importance of basic information for the counseling process.
7- To know the concept of psychological counseling.
8- Identifying some student problems that the counselor addresses in educational institutions.

outputs scheduled and modalities education and learning and evaluation

A- Objectives Cognitive 1-knows extension singles and collective And direct And change direct. 2-explains requester Relationship professional extention. 3-appointed faces similarities the difference between extension direct And change direct. 4-clarify requester Advantages and defects extension collective. 5-enumerate requester steps extension direct. 6-gives Examples About the problems Student that Face it leader in Enterprise

pedagogical.
B – Objectives Marathi own By decision. 1-Compare between extension direct and extension others direct. 2- Analyze Reasons Some the problems pedagogical and confront it. 3-Apply writing fitness Search in any Theme About Topics extension educational. 4-Collect information About phenomena and problems pedagogical.
*modalities education and learning
supply Students With the basics and topics related by the ways and styles extention.Clarification And explain Subject tuition from Before my teaching material modalities and styles extention.Claim Students visit the library And see on me Sources ways and styles extention.to improve skills Students Visit sites e to get on me knowledge addition with guidance and guidance.Utilization modalities diction and the lecture and interrogation and discussion in Some themes that need to me method Discussion.
*modalities Evaluation
1-Tests daily for questions specific . 2- Lay grades assignments household And share class 3- Takaif Students Achievement Research And reports About the problems extention and knock processed . 4- Tests monthly with questions objectivity and frying pan .
C- Objectives Sentimental and value 1-Realize Importance ways and styles extention in deal With the problems . 2- He gives Importance for problems that You must Solutions A quick . 3- Practice activities extention . 4- He resides activities extention
*modalities education and learning

introductory	use method offers fee charts Captions .method storming mental .	2-
* Modalities Evaluation the exam analysis To measure capacity requester on me thinking and analysis conclusion .Request Procedure comparisons between ways and styles extention .writing Research About phenomena and problems .Exams daily with guidance Questions intellectual and deductive .		
Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). skills Utilization the reviewer and jargon .skills in plural data About Topic And analyze it .skills Procedure comparisons About Topic .skills to exploit what Available from potential .skills Preparation concepts own About Topic .		

Mother. Nawras Haider Mahmoud

Course description form Course description

This course description provides a necessary summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made the most of the available learning opportunities. It must be linked to the program description.;	
Enterprise educational	University Diyala / College Education the basic

Section Scientific / Center	Section Scientific Calculators
Noun / Code scheduled	charts
shapes Attendees available	Is mandatory
the classroom / the year	the classroom scholastic The second / the year the second
number hours tuition (total)	$3 * 15 = 45$
Date Preparation this the description	1/ 10/ 2023
Goals scheduled	
1- Introducing students to the basics of diagrams.	
2- Defining the students of the importance of charts.	
3- Defining the student how to build or create plans.	
4- Introducing the student to the language used and the work environment in building the plans.	
5- Introducing the student to the diagrams directives used in building diagrams in C++.	

6- Introducing the student to instructions for drawing diagrams (point – line – circle – square – other geometric shapes)
outputs scheduled and modalities education and learning and evaluation
A- Objectives Cognitive a1-Enable Students from get on me Knowledge and understanding for stages Development charts via History a2- Enable Students from get on me Knowledge and understanding components charts. a3- He managed Students from get on me Knowledge and understanding for instructions building charts. a4- He managed students from get on me Knowledge and understanding environmental the work software own for charts. a5- He managed Students from comprehension and knowledge in Programming charts different . a6- He managed Students from get on me Knowledge and understanding for languages software own for charts.
B – Objectives Marathi own By decision. B1 – Ability on me Programming charts . B2 – ability on me Solution problems that face programmer in condition Design a program for charts. B3 – enable requester from Identify on me language New Which language charts.
modalities education and learning
-supply Students With the basics and topics the extra related with outputs thinking and analysis . -formation groups Discussion During Lectures to discuss themes charts that require thinking and analysis. -the demand from Students Solution a group from questions thinking During Lectures like (How do – when – Why) for topics specific for charts. – give Students Duties household require explanations Resume . -teaching Students How building Methods thinking and analysis .
C- Objectives Sentimental and value c1-Enable requester from thinking and analysis for topics related by frame intellectual to charts. c2- He managed requester from thinking and analysis for topics related by programming charts. c3- He managed requester from thinking and analysis for topics related worn out How Action charts. c4- He managed requester from thinking and analysis for topics related Bagial charts

and develop it .					
modalities Evaluation					
– Exams daily with questions household solve it self. – grades sharing for questions competition Related by article tuition . – grades specific for assignments household .					
Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). Dr1-to use Students vocabulary tech modern . Dr2-make up groups No stature Relations together help on me performance Some Business positive . Dr3-Enable Students from Development subjective continuous when distance graduation. Dr4- He managed Students from passing Tests proces And professional organize from Before destinations local / regional / international.					
structure scheduled					
the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation
1-2	6	Learn basics charts	basics charts	diction and the lecture	Exam daily
3-4-5	9	Learn building and create charts and graphics	building and create charts and graphics	diction and interrogation	Questions interrogative
6-7-8	9	Learn on me the language software to	language C++ to draw	diction And	duty my house

		construct charts		interrogation	
9-10	6	knowledge ingredients charts	ingredients charts	diction and interrogation	Questions interrogative
11-12	6	knowledge How The drawing	The drawing	diction and interrogation	duty my house
13-14	6	knowledge building a program integrated	building System charts	diction and interrogation	Questions interrogative
15	3	knowledge How fee Shapes Engineering	Shapes Engineering	diction And interrogation	Exam surprising
structure substratum					
1 books assessed required			principles in diagrams The basics of the language C Plus Plus for drawing		
2 the reviewer Main (Sources)			course vocabulary –		
a books and references that recommend with it (Journals Scientific , reports ,....)			– Scientific journals on the development of charts – Reports		

B – the reviewer Electronic, sites the internet	Internet sites Youtube lessons
plan Development scheduled scholastic	
– Accommodation courses training in area charts and used it . – Accommodation Seminars And conferences About uses charts. – Lectures Scientific specialized in charts hosted Masters Two pots from universities Iraqi other . – Assigned Students Achievement Research And studies About else developments in area charts And how Benefit from this Development in education and learning .	

M. Shaima Taha Ahmed

Course description form
Course description

This course description provides a necessary summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made the most of the available learning opportunities. It must be linked to the program description.;	
Enterprise educational	University Diyala / College Education the basic
Section Scientific / Center	Section Scientific Calculators
Noun / Code scheduled	Grammar data
shapes Attendees available	Is mandatory

the classroom / the year	the classroom scholastic the first / the year fourth
number hours tuition (total)	3 * 15 = 45
Date Preparation this the description	1/ 10/ 2023
Goals scheduled	
1- Introducing students to the basics of databases.	
2- Defining the student of the importance of databases.	
3- Defining the student how to build or create a database.	
4- Introducing the student to the language used and the work environment in building databases.	
5- Introducing students to the SQL directives used in building databases.	
6- Introducing the student to the components of the database such as tables, functions, processes, indexes, queries, and relationships.	
7- Introducing the student to writing instructions for adding – modifying – deleting – searching – querying data	

outputs scheduled and modalities education and learning and evaluation
A- Objectives Cognitive a1-Enable Students from get on me Knowledge and understanding for stages Development Grammar data via History a2-Enable Students from get on me Knowledge and understanding components Grammar data . a3- He managed Students from get on me Knowledge and understanding for instructions building Grammar data . a4- He managed students from get on me Knowledge and understanding environmental the work software own rules data. a5- He managed Students from comprehension and knowledge in building systems . a6- He managed Students from get on me Knowledge and understanding for languages software own rules data.
B – Objectives Marathi own By decision. B1 – Ability on me building System Grammar data B2 – ability on me Solution problems that face programmer in condition Design the system B3 – enable requester from Identify on me language New Which language Grammar data . B4- Ability requester on me maintenance the system and operations add and modification and delete on me the system .
modalities education and learning
-supply Students With the basics and topics the extra related with outputs thinking and analysis . -formation groups Discussion During Lectures to discuss themes Grammar data that require thinking and analysis. -the demand from Students Solution a group from questions thinking During Lectures like (How do – when – Why) for topics specific rules data . – give Students Duties household require explanations Resume . -teaching Students How building Methods thinking and analysis .
C- Objectives Sentimental and value c1-Enable requester from thinking and analysis for topics related by frame intellectual rules data . c2- He managed requester from thinking and analysis for topics related by programming Grammar data . c3- He managed requester from thinking and analysis for topics related worn out How Action Grammar data . c4- He managed requester from thinking and analysis for topics related Bagial Grammar data and develop it .

modalities Evaluation					
– Exams daily with questions household solve it self. – grades sharing for questions competition Related by article tuition . – grades specific for females household .					
Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). Dr1-to use Students vocabulary tech modern . Dr2-make up groups No stature Relations together help on me performance Some Business positive . Dr3-Enable Students from Development subjective continuous when distance graduation. Dr4- He managed Students from passing Tests proces And professional organize from Before destinations local / regional / international.					
structure scheduled					
the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation
1-2	6	Learn basics Grammar data	basics Grammar data	diction and the lecture	Exam daily
3-4-5	9	Learn building and create Grammar data	building and create Grammar data	diction and interrogation	Questions interrogative
6-7-8	9	Learn on me the language software to construct Grammar data	language SQL	diction And interrogation	duty my house

9-10	6	knowledge ingredients Grammar data	ingredients Grammar data	diction and interrogation	Questions interrogative
11-12	6	knowledge relations between scales a base data	relations	diction and interrogation	duty my house
13-14	6	knowledge building System	building System Grammar data	diction and interrogation	Questions interrogative
15	3	knowledge How to treat the system	addition and modify and delete data for the system	diction And interrogation	Exam surprising
structure substratum					
1 books assessed required			Principles of databases Language basicsSQL		
2 the reviewer Main (Sources)			course vocabulary –		
a books and references that recommend with it (Journals Scientific , reports ,....)			Scientific journals on the development of databases – Reports		
B – the reviewer Electronic, sites the internet			Internet sites Youtube lessons		

plan Development scheduled scholastic

– Accommodation courses training in area Grammar data and used it . – Accommodation Seminars And conferences About uses Grammar data . – Lectures Scientific specialized in Grammar data hosted Masters Two pots from universities Iraqi other . – Assigned Students Achievement Research And studies About else developments in area Grammar data And how Benefit from this Development in education and learning .

Prof. Dr. Firas Muhammad Aswad

Course description form
Course description

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

Enterprise educational	University Diyala / College Education the basic
Section Scientific / Center	Section Scientific Calculators
Noun / Code scheduled	Programming entity OOP
shapes Attendees available	Is mandatory

the classroom / the year	the classroom scholastic second / year the second
number hours tuition (total)	3 * 15 = 45
Date Preparation this the description	1/ 10/ 2023
Goals scheduled	
1- Defining the basics of OOP for the student.	
2- Defining the student about the importance of OOP.	
3- Defining the student how to build or create functions.	
4- Introducing the student to the language used and the work environment in building OOP.	
5- Introducing the student to the OOP directives used in building OOP in C++.	
6- Introducing the student to how to deal with classes and inheritance between classes	
outputs scheduled and modalities education and learning and evaluation	
A- Objectives Cognitive a1-Enable Students from get on me Knowledge and understanding for stages Development OOP across History a2-	

Enable Students from get on me Knowledge and understanding components OOP. a3- He managed Students from get on me Knowledge and understanding for instructions building OOP. a4- He managed students from get on me Knowledge and understanding environmental the work software own for charts. a5- He managed Students from comprehension and knowledge in Programmingdifferent OOP . a6- He managed Students from get on me Knowledge and understanding for languages software own OOP.
B – Objectives Marathi own By decision. B1 – Ability on me ProgrammingOOP. B2 – ability on me Solution problems that face programmer in condition Design a program OOP. B3 – enable requester from Identify on me Concept new Which OOP.
modalities education and learning
-supply Students With the basics and topics the extra related with outputs thinking and analysis . -formation groups Discussion During Lectures to discuss themesOOP started require thinking and analysis. -the demand from Students Solution a group from questions thinking During Lectures like (How do – when – Why) for topics specific for charts. – give Students Duties household require explanations Resume . - teaching Students How building Methods thinking and analysis .
C- Objectives Sentimental and value c1-Enable requester from thinking and analysis for topics related by frame intellectual toOOP. c2- He managed requester from thinking and analysis for topics related by programming OOP. c3- He managed requester from thinking and analysis for topics related worn out How Action OOP. c4- He managed requester from thinking and analysis for topics related Bagial OOP and its development .
modalities Evaluation
– Exams daily with questions household solve it self. – grades sharing for questions competition Related by article tuition . – grades specific

for assignments household .

Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). Dr1-to use Students vocabulary tech modern . Dr2-make up groups No stature Relations together help on me performance Some Business positive . Dr3-Enable Students from Development subjective continuous when distance graduation. Dr4- He managed Students from passing Tests proces And professional organize from Before destinations local / regional / international.

structure scheduled

the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation
1-2	6	Learn basicsOOP	basicsOOP	diction and the lecture	Exam daily
3-4-5	9	Learn building and create functions	building and create functions	diction and interrogation	Questions interrogative
6-7-8	9	Identify on me the language software OOP	language C++ with the OOP	diction And interrogation	duty my house
9-10	6	knowledge ingredients OOP	ingredientsOOP	diction and interrogation	Questions interrogative

11-12	6	Learn Utilization classes	classes	diction and interrogation	duty my house
13-14	6	Learn heredity classes	heredity	diction and interrogation	Questions interrogative
15	3	writing The examples The inclusive for all vocabulary the OOP	The examples	diction And interrogation	Exam surprising
structure substratum					
1 books assessed required			principles inOOP The basics of the language C Plus Plus		
2 the reviewer Main (Sources)			course vocabulary –		
a books and references that recommend with it (Journals Scientific , reports ,....)			Scientific journals about developmentOOP – Reports		
B – the reviewer Electronic, sites the internet			Internet sites Youtube lessons		
plan Development scheduled scholastic					
– Accommodation courses training in area OOP and its use . – Accommodation Seminars And conferences About uses OOP. – Lectures					

Scientific specialized in oop hosted Masters Two pots from universities Iraqi other . – Assigned Students Achievement Research And studies
About else developments in area OOP and how Benefit from this Development in education and learning .

Prof. Dr. Firas Muhammad Aswad

Course description form
Course description

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

Enterprise educational	College Education the basic
Section Scientific / Center	Calculators
Noun / Code scheduled	Design Logical
shapes Attendees available	Is mandatory
the classroom / the year	the classroom scholastic first / year The first
number hours tuition (total)	3 * 15 = 45 hours

Date Preparation this the description	1/ 10/ 2023
Goals scheduled	
Introducing the student to computer digital systems and the codes used	
Introducing students to logical gates and their operation.	
3- Introduce the student to Karnaugh diagrams.	
Introducing students to different electronic circuits.	
Introducing students to sequential logical electronic circuits.	
Introducing students to registers and counters.	
outputs scheduled and modalities education and learning and evaluation	
A- Objectives Cognitive a1- Tamkeen Students from get on me Knowledge and understanding for systems digital and conversion from System for another . a2- Tamkeen Students from get on me Knowledge and understanding for gates Logical And how build it. a3- Empowerment Students from get on me Knowledge and understanding to knock simplistic used charts Karnoff a4- Empowerment Students from get on me Knowledge and understanding for circles Logical different . a5- Empowerment Students from get on me Knowledge and understanding for circles Logical sequential and its uses. a6- Empowerment Students from get on me Knowledge and understanding for	

registration and counters and its uses.
B – Objectives Marathi own By decision. B1 – Ability on me Utilization systems digital different and conversion between them. B2 – ability on me building and installation portals Logical . B3 – Enable requester from simplistic using ways different B4- Ability requester on me building circles e different.
modalities education and learning
1. Supply Students With the basics and topics related By design Logical. 2. Clarification And explain Subject tuition from Before Mr. Subject 3. Claim Students visit the library examining on me Sources study the design Logical .
modalities Evaluation
1. Tests daily with questions specific 2. Lay grades for assignments household and posts class . 3. Tests monthly with questions objectivity and frying pan
C- Objectives Sentimental and value c1- That explains And he analyzes evidence for design Logical . c2- differentiate between systems digital And the codes different . c3- He resides Some texts and information About Design Calculator Logical. c4- Compare between circles e different .
modalities education and learning
1. Method Solution the problems. 2. storm mental . 3. method simulation

modalities Evaluation					
1. The exam Editorial To measure capacity requester on me thinking and analysis conclusion. 2. writing Research About the design Logical for the computer. 3. exams daily with guidance Questions intellectual and deductive.					
Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). Dr1- It is used Students vocabulary technological modern Dr2- make up groups to set up Relations together help Some Business positivity Dr3- He managed Students from Development subjective continuous when distance graduation . Dr4- He managed Students from passing Tests proces And professional organize from Before destinations local / regional / international					
structure scheduled					
the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation
1	3	Learn systems digital	systems digital	Discussion and interrogation	Exam daily
2	3	Learn Codes used	Codes	Discussion and interrogation	Questions interrogative
3	3	Learn portals Logical	portals Logical	Discussion and interrogation	duty my house

4	3	knowledge Algebra Logical	Algebra Logical	Discussion and interrogation	Exam daily
5	3	knowledge Methods simplification portals Logical	charts Karnoff	Discussion and interrogation	Questions interrogative
6	3	Exam the month the first			
7	3	knowledge portals vehicle and circles e	portals vehicle	Discussion and interrogation	Exam sudden
8	3	knowledge circles Plural and subtraction and comparator	portals vehicle	Discussion and interrogation	Exam daily
9	3	knowledge circles Logical sequential	circles Logical sequential	Discussion and interrogation	Questions interrogative
10	3	knowledge Species Hoppers	HoppersFlip-Flop	Discussion and interrogation	Exam sudden
11	3	knowledge registry And its types	registry	Discussion and interrogation	Exam daily

12	3	knowledge Counters	Counters	Discussion and interrogation	Questions interrogative
13	3	knowledge State Diagram and FSA	State Diagram and FSA	Discussion and interrogation	Exam daily
14	3	knowledge RAM and ROM	RAM and ROM	Discussion and interrogation	Questions interrogative
15	3	Exam the month The second			
structure substratum					
readings required texts the basic books scheduledother		Fundamental Logic			
requirements Especially		Accommodation courses Training in area uses the computer and build it .Accommodation courses training to use the network arachnoidAccommodation Seminars and conferences Scientific and cultural			
a books and references that recommend with it (Journals Scientific , reports ,....)		Benefit from periodicals and resources related to the course			

B – the reviewer Electronic, sites the internet	Benefit from the international information network as well-known sources
plan Development scheduled scholastic	
1. Work on me Polarization Masters from universities other to throw Lectures Scientific specialized Techniques Calculator . 2. assignment Students Achievement Research study field what suffer language anti from problems social And psychology and put Solutions effective for those the problems and tackle phenomena that He suffers Of which They studied techniques Calculator	

Mother. Intisar Yassin Khudair

Course description form
Course description

This course description provides a necessary summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made the most of the available learning opportunities. It must be linked to the program description.;	
Enterprise educational	College Education the basic
Section Scientific / Center	Calculators
Noun / Code scheduled	the theory reckoning

shapes Attendees available	Is mandatory
the classroom / the year	the classroom scholastic first / year the second
number hours tuition (total)	3 * 15 = 45 hours
Date Preparation this the description	1/ 10/ 2023
Goals scheduled	
Introducing students to the concept of computational theory	
Introducing students to logical gates and their operation.	
3- Introduce the student to Karnaugh diagrams.	
Introducing students to different electronic circuits.	
Introducing students to sequential logical electronic circuits.	
Introducing students to registers and counters.	
outputs scheduled and modalities education and learning and evaluation	

A- Objectives Cognitive a1- Tamkeen Students from get on me Knowledge and understanding for systems digital and conversion from System for another . a2- Tamkeen Students from get on me Knowledge and understanding for gates Logical And how build it. a3- Empowerment Students from get on me Knowledge and understanding to knock simplistic used charts Karnoff a4- Empowerment Students from get on me Knowledge and understanding for circles Logical different . a5- Empowerment Students from get on me Knowledge and understanding for circles Logical sequential and its uses. a6- Empowerment Students from get on me Knowledge and understanding for registration and counters and its uses.

B – Objectives Marathi own By decision. B1 – Ability on me Utilization systems digital different and conversion between them. B2 – ability on me building and installation portals Logical . B3 – Enable requester from simplistic using ways different B4- Ability requester on me building circles e different.

modalities education and learning

1. Supply Students With the basics and topics related By design Logical. 2. Clarification And explain Subject tuition from Before Mr. Subject 3. Claim Students visit the library examining on me Sources study the design Logical .

modalities Evaluation

1. Tests daily with questions specific 2. Lay grades for assignments household and posts class . 3. Tests monthly with questions objectivity and frying pan

C- Objectives Sentimental and value c1- That explains And he analyzes evidence for design Logical . c2- differentiate between systems digital And the codes different . c3- He resides Some texts and information About Design Calculator Logical. c4- Compare between circles e

different .					
modalities education and learning					
1. Method Solution the problems. 2. storm mental . 3. method simulation					
modalities Evaluation					
1. The exam Editorial To measure capacity requester on me thinking and analysis conclusion. 2. writing Research About the design Logical for the computer. 3. exams daily with guidance Questions intellectual and deductive.					
Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). Dr1- It is used Students vocabulary technological modern Dr2- make up groups to set up Relations together help Some Business positivity Dr3- He managed Students from Development subjective continuous when distance graduation . Dr4- He managed Students from passing Tests proces And professional organize from Before destinations local / regional / international					
structure scheduled					
the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation
1	3	Learn systems digital	systems digital	Discussion and interrogation	Exam daily

2	3	Learn Codes used	Codes	Discussion and interrogation	Questions interrogative
3	3	Learn portals Logical	portals Logical	Discussion and interrogation	duty my house
4	3	knowledge Algebra Logical	Algebra Logical	Discussion and interrogation	Exam daily
5	3	knowledge Methods simplification portals Logical	charts Karnoff	Discussion and interrogation	Questions interrogative
6	3	Exam the month the first			
7	3	knowledge portals vehicle and circles e	portals vehicle	Discussion and interrogation	Exam sudden
8	3	knowledge circles Plural and subtraction and comparator	portals vehicle	Discussion and interrogation	Exam daily
9	3	knowledge circles Logical sequential	circles Logical sequential	Discussion and interrogation	Questions interrogative

10	3	knowledge Species Hoppers	HoppersFlip-Flop	Discussion and interrogation	Exam sudden
11	3	knowledge registry And its types	registry	Discussion and interrogation	Exam daily
12	3	knowledge Counters	Counters	Discussion and interrogation	Questions interrogative
13	3	knowledge State Diagram and FSA	State Diagram and FSA	Discussion and interrogation	Exam daily
14	3	knowledge RAM and ROM	RAM and ROM	Discussion and interrogation	Questions interrogative
15	3	Exam the month The second			
structure substratum					
readings required texts the basic books scheduledother		Fundamental Logic			
requirements Especially		Accommodation courses Training in area uses the computer and build it .Accommodation			

	courses training to use the network arachnoidAccommodation Seminars and conferences Scientific and cultural
a books and references that recommend with it (Journals Scientific , reports ,....)	Benefit from periodicals and resources related to the course
B – the reviewer Electronic, sites the internet	Benefit from the international information network as well-known sources
plan Development scheduled scholastic	
1. Work on me Polarization Masters from universities other to throw Lectures Scientific specialized Techniques Calculator . 2. assignment Students Achievement Research study field what suffer language anti from problems social And psychology and put Solutions effective for those the problems and tackle phenomena that He suffers Of which They studied techniques Calculator	

Mother. Intisar Yassin Khudair

Course description form

Course name :

Calculators
Course code:
Organized employment
Semester / Year:
the classroom scholastic first / year fourth
Description Preparation Date:
1/ 10/ 2023
Available Attendance Forms:
Weekly/ mandatory
Number of Credit Hours (Total) / Number of Units (Total):
3 * 15 = 45 hours
Course administrator's name (mention all, if more than one name)
Dr :shaymaa Taha Ahmed
Email:mrs.sh.ta.ah@gmail.com
Course Objectives:
- Tamkeen Students from get on me Knowledge and understanding systems Employment . - Tamkeen Students from get on me Knowledge and understanding systems processing multi.

- Empowerment Students from get on me Knowledge and understanding to structural System Employment.
- Empowerment Students from get on me Knowledge and understanding components System Employment.
- Empowerment Students from get on me Knowledge and understanding for services System Employment .
- Empowerment Students from get on me Knowledge and understanding for how Administration memory.

Teaching and Learning Strategies:

1. Lectures using data show
2. Oral explanation
3. Illustration using white board and animated vedios

Course Structure

week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation
1	3	Learn Concept Organized Employment	Organized Employment	Discussion and interrogation	Exam daily
2	3	Learn Organized processing multi	system processing multi	Discussion and interrogation	Questions interrogative
3	3	Learn Species Organized Employment	Species Organized Employment	Discussion and	duty my

				interrogation	house
4	3	knowledge Structural System Calculator	Structural System Calculator	Discussion and interrogation	Exam daily
5	3	knowledge Structural System Employment	Structural System Employment	Discussion and interrogation	Questions interrogative
6	3	Exam the month the first			
7	3	knowledge ingredients Organized Employment	ingredients Organized Employment	Discussion and interrogation	Exam sudden
8	3	knowledge services Organized Employment	services Organized Employment	Discussion and interrogation	Exam daily
9	3	knowledge Concept processing	Concept processing	Discussion and interrogation	Questions interrogative
10	3	knowledge instruction during processing	Implementation of instruction	Discussion and interrogation	Exam sudden
11	3	knowledge scheduler Alone processing	scheduler Alone processing	Discussion and	Exam daily

		central	central	interrogation	
12	3	knowledge Administration memory	Administration memory	Discussion and interrogation	Questions interrogative
13	3	knowledge Administration storage	Administration storage	Discussion and interrogation	Exam daily
14	3	knowledge protection And the security	protection And the security	Discussion and interrogation	Questions interrogative
15	3	Exam the month The second			
Course Evaluation					
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					

Learning and Teaching Resources

readings required texts the basic books scheduled other	There is no decision
requirements Especially	Accommodation courses Training in area uses System Employment And deal With Calculator .Accommodation courses training to use the network arachnoid Accommodation Seminars and conferences Scientific and cultural
Books and references that recommend with it (Journals Scientific, reports,)	Benefit from periodicals and resources related to the course
The reviewer Electronic, cites the internet	Benefit from the international information network as well-known sources

