

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



## **Academic Program and Course Description Guide**

٢٠٢٤-٢٠٢٣

## **Introduction:**

The educational program is a coordinated and organized package of courses that include procedures and experiences organized in the form of study items. The main purpose of these is to build the graduates' skills, which makes them qualified to meet the requirements of the labor market. It is reviewed and evaluated annually through internal or external audit program procedures, such as the external examiner program.

The academic program description is a brief summary of the main features of the program and its courses, indicating the skills that students are working to acquire, according to the objectives of the academic programs. The importance of this description is evident because it represents the cornerstone in obtaining program accreditation. The teaching staff participates in writing it under the supervision of the scientific committees in the scientific departments. This guide, in its second version, includes a description of the academic program after updating the vocabulary and paragraphs of the previous guide in light of the developments and developments of the educational system in Iraq, which included a description of the academic program in its traditional form, a secondary and separate system, in addition to adopting the description of the academic program circulated by the letter of the Department of Studies TM 3/6 0 9 2 on 3/5/2023, the fifth month of three, regarding the program that relies on the Bologna path as the basis for its work. In this field, we only seek to emphasize the importance of writing a description of the academic program and study courses to ensure the smooth running of the educational process.

## **Concepts and terms:**

**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 concise summary of the most important characteristics of the course and the learning outcomes expected from the student to achieve, demonstrating whether he has achieved maximum benefit from the available learning opportunities and is derived from the program description.

**Program Vision:** An ambitious image of the future academic program to be a developed, inspiring, motivating, realistic and applicable program.

**Program Mission:** Clarifies the goals and activities necessary to achieve them in a concise manner, which determines the paths of program development and its directions.

**Program objectives:** These are phrases that describe what the academic program intends to achieve during a specific period of time, which are measured against the observation and measurement of the curriculum structure, all courses, and the subjects included in the academic program according to the approved learning system (semester, yearly, bulimia track), whether they are required (ministry, university, college, and scientific department), with the number of study units.

**Learning outcomes:** A compatible set of knowledge, skills, and values acquired by the student after successfully completing the academic program. The learning outcomes for each course must be determined in a way that achieves the program objectives.

**Learning and teaching strategies:** These are the strategies used by the faculty member to develop student learning and teaching. They are plans that are followed to achieve the learning objectives, i.e. they describe all the co-curricular and classroom activities to achieve the learning outcomes of the program.

Ministry of Higher Education and Scientific Research  
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## Academic Description Form for Colleges and Institutes 2023-2024

University: University of Diyala  
College/Institute: College of Basic Education  
Scientific Department: Psychological Counseling and Educational Guidance  
Date of filling out the file: 9/1/2023

Signature:



Name of the Head Department: Asst. Dr. Sahib Abdullah Hamad

Date: 1/9/2023

Signature:



Name of the Scientific Assistant: Asst. Dr. Haider Abdul-Baqi Abbas

Date: 1/9/2023

The file was reviewed by:

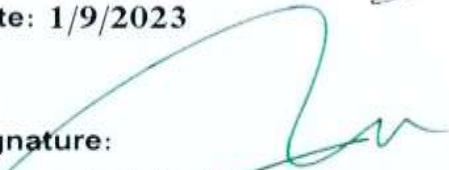
Quality Assurance and University Performance Division

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

M. Dr. Najat Hamdi Abdullah

Date: 1/9/2023

Signature:



Approval of the Dean:

Prof. Dr. Abdul-Rahman Nasser Rashid

### **1. Program Vision**

An ambitious picture of 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 determines the paths of program development and its directions

### **3. Program Objectives**

These are phrases that describe what the academic program intends to achieve during a specific period of time and are measurable and observable

- Preparing counselors who possess the necessary counseling skills
- Developing scientific trends among students to enable them to develop their own abilities
- Providing students with the necessary skills to deal with any psychological, educational or social problem and solve it in a sound scientific manner
- Providing students with how to invent appropriate means, develop them and use them in counseling
- Developing and updating scientific curricula in the field of psychological counseling and educational guidance
- Cooperating with all college departments in teaching and understanding psychological counseling materials
- Encouraging attendance and participation in scientific conferences and seminars in order to learn about the latest developments in developing scientific research in the subjects of specialization

### **4. Program Accreditation**

All academic courses / The academic subjects included in the academic program according to the approved learning system (courses) whether they are required by (ministry, university, college and scientific department) with the number of academic units

### **5. Other external influences**

Central acceptance + student grades

### **6. Expected learning outcomes of the program**

- Enable students to know and understand all the terms and concepts of psychological counseling and educational guidance
- Enable students to know and understand the methods and techniques of psychological counseling and educational guidance
- Enable students to carry out counseling programs
- Enable students to know and understand the methods of using management systems and databases

- Enable students to acquire knowledge and understand information, knowledge and theoretical concepts related to psychological counseling and educational guidance
- Enable students to acquire knowledge and understand information, facts and educational, psychological and cultural concepts
- Enable students to understand the strategies, methods and techniques of psychological counseling and educational guidance.
- Introduce students to the most important references and important sources in psychological counseling and educational guidance.
- Enable students to understand and know all the terms, concepts and educational psychological symbols.
- Enable students to understand the basics and concepts of educational measurement, evaluation and statistics.
- 11- Enable students to understand the basics, concepts and theories of psychological and educational counseling.

#### **7 - Program objectives and skills**

- Enabling students to acquire psychological counseling and educational guidance skills.
- Enabling students to learn and acquire guidance program design skills.
- Enabling students to possess skills in using modern technologies in psychological counseling and educational guidance
- Enabling students to possess the ability to design and invent effective educational activities that encourage learning
- Enabling students to acquire classroom management skills, classroom interaction and the art of dealing with psychological problems in an educational manner.
- Providing students with problem-solving skills of various types.
- Enabling students to acquire skills in testing solutions to psychological problems
- Enabling students to acquire skills in identifying various problems
- Enabling students to acquire scientific research skills.
- Enabling students to possess skills in preparing and constructing electronic and paper psychological tests and methods of correcting them.
- Enabling students to acquire planning skills for counseling at all levels.
- Enabling students to acquire skills in using modern means in psychological counseling and educational guidance
- Enabling students to possess skills in designing and implementing counseling programs
- Enabling students to acquire skills in psychological counseling in primary and middle schools.

- Enabling students to acquire self-education skills and acquire new information, skills and knowledge
- Enabling students to learn skills of dialogue, discussion, listening and accepting the opinions of others.

### **8- Teaching and learning methods**

- (The lecture method, discussion, questioning, exploration, special methods in teaching common concepts) This is what concerns theoretical education.
- (The method of guidance programs and guidance groups) regarding the practical aspect.

### **9- Evaluation Methods**

- 40% semester exams, attendance and participation are taken into consideration.
- 2. 60% end-of-course exams.

### **10- Thinking Skills**

Developing thinking skills for:

- Critical thinking skills
- Creative thinking skills
- Communication skills
- Thinking frameworks for different subjects
- Psychological problem-solving skills

### **11- Teaching and learning strategy**

Common methods: Integrating the development and teaching of the thinking process within the various academic subjects to the extent related to the subject of guidance and educational techniques, which are taught directly and explicitly.

### **12- Evaluation methods**

- Written tests
- Direct observation
- Theoretical tests
- Practical tests on students
- Field visits to evaluate the applied students
- 6- Oral and written tests

### **13- Program development plan**

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

**This description of the academic program provides a necessary summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve, demonstrating whether he has made the most of the available opportunities. It is accompanied by a description of each course within the program.**

Enterprise educational	College Education the basic /University Diyala
Section Scientific / Center	Calculators
Noun the program Academic or vocational	education essential Calculators
Noun Certificate final	Bachelor's education essential – Calculators
the system scholastic : annual / decisions /other	quarterly courses
a program Accreditation approved	Ministry education Higher and search Scientific
effects external other	Ministry Education and ministry planning
Date Preparation the description	1/10/2015
Date Preparation the description	1/10/2021
Goals the program Academic: that is being requester conversant informative coming and that be he have skills use it in his problems life	
Preparation teachers Undergraduates have skills educational necessary to teach material Calculators	
development direction Scientific I have Students With what They can from Development their abilities subjectivity in their studies Supreme	
gain Students skills necessary to deal With any problem Scientific And solve it in a manner scientific Salim	
gain Students How innovation means educational and develop it to be used in teaching material Calculators	



Development and update curricula Scientific in area Calculators

Cooperat With Sections the college all in maintenance and development devices the computer As patrol and continuous

to encourage Attendees And share in conferences and seminars Scientific from okay Identify on me latest updates in modalities teaching and development search Scientific in Material Jurisdiction

11. outputs the program required and modalities education and learning and evaluation

Knowledge and understanding a1- Computers (programming structured, the design logical, structures intermittent, techniques calculator, Organized ready (office), Differentiation, integration, Programming C++, structures data, processors Microwaves theory arithmetic, Administration systems (maintenance), programming entity, blueprints, analysis numerical, translators, networks the computer, architectural calculator, analysis systems, Research operations, software prolog, engineering software, a wish data, to treat sham, Intelligence artificial, Grammar data, Organized employment, Programming Visible, And project Search graduation, And Indeed (98) unit And in the rate of 57,988% a2- Education and taught self (Origins education, education Basis, Flag self general, Flag same the growth, the health Mental, Flag self educational, extension educational, Statistics educational, Curricula search educational, measurement and calendar , modalities teaching specialization, techniques pedagogical, watching, curricula and books scholastic, Administration and supervision educational, application practical, And Indeed (50) Unit And in the rate of 29,586% a3- Culture General (language Arabic, Education islamic, rights man, the language english , democracy ,Education environmental and sanitary), And Indeed (21) Unit And by 12,426%, note that Total units total (169) Unit.

B – skills own subject. B 1 – Education material Calculators to stage education Basis. B 2 – building strategies education suitable to stage education Basis. B 3 – build Tests material Calculators to calendar collection students education Basis. B 4- Development Capacity subjectivity in Development their abilities teach material Calculators to teach Stage education Basis.

modalities education and learning

- 1- (method lecture, Discussion, interrogation, exploration, modalities Especially in education concepts popular) this what Regards Education the theory.
- 2- (road learning cooperative And groups small) with Regards the side Practical.

modalities Evaluation			
1- 40% exams quarterly, be taken I see consideration attendance And participation. 2- 60% tests End the classroom.			
C- skills thinking : development skills thinking own B: c1- Thinking critic c2- Thinking creative c3-Skills communication c4-frame thinking Especially with materials tuition different			
modalities education and learning			
The Road Rumor: merge development and teach proces thinking within Materials tuition different by extent what Regard with substance techniques pedagogical It runs teach her in a form direct And sincere.			
modalities Evaluation			
Come within Exams Half quarterly and end the classroom			
Dr -Skills the public and rehabilitative movable (Skills other related susceptibility recruitment and evolution profile). 1- Development skills Students to teach students Stage education Basis materials mathematics. 2- Development Abilities Students in development Utilization techniques pedagogical I have students Stage education Basis. 3- Development Capabilities in Tests you measure Capacity sports educated I have students education Basis.			
modalities education and learning			
About road material modalities teaching specialization, watching And application Practical (app singles)			
modalities Evaluation			
the exams editorial Observation Direct			
structure the program			
stage tuition	Code scheduled or course	Noun scheduled or course	hours approved
			theoretical my work

The first	Univ1101	human rights	2	–
The first	Univ1102	Islamic Education I	2	–
The first	Univ1103	Arabic I	2	–
The first	Univ1104	Islamic Education II	2	–
The first	Univ1105	English I	2	–
The first	Call 1201	General Psychology	3	–
The first	Call 1202	The basis of education	2	–
The first	Call 1203	Developmental Psychology	3	–
The first	Call 1204	principals of Education	3	–
The first	Comp1301	Structured programming I	3	–
The first	Comp1302	Computer logic design computer	3	–
The first	Comp 1303	Differentiation	2	–
The first	Comp 1304	Discrete structures I	3	–
The first	Comp 1305	Structured programming II	3	–
The first	Comp1306	Computer techniques	3	–
The first	Comp 1307	Integration	3	–
The first	Comp 1308	Discrete structures II	2	–
The first	Comp 1309	principals of Office	2	–
the second	Univ2107	Arabic II	2	–
the second	Univ2109	Health and Environment Education	2	–
the second	Univ2110	English II	2	–
the	Univ2111	Democracy	2	–

second				
the second	Call 2205	Educational Psychology	3	–
the second	Call 2206	mental health	2	–
the second	Call 2207	Educational guidance	2	–
the second	Call 2208	Educational Statistics	3	–
the second	Comp2310	Computational theory	3	–
the second	Comp2311	Introduction to microprocessors and computers	3	–
the second	Comp 2312	Programming in C++	3	–
the second	Comp 2313	Data structures I	3	–
the second	Comp2314	Systems Management (Maintenance)	2	–
the second	Comp 2315	Numerical Analysis	4	–
the second	Comp 2316	Computer graphics	3	–
the second	Comp2317	Object Oriented Programming OOP	3	–
the second	Comp 2318	Data structures II	3	–
Third	Univ3112	Arabic III	2	–
Third	Call 3209	Research Methods	3	–
Third	Call 3210	TMS	2	–

Third	Call 3211	Measurement and evaluation	2	–
Third	Call 3212	General methods of teaching	2	–
Third	Call 3213	Viewing	–	4
Third	Comp 3320	Analysis systems	3	–
Third	Comp3321	Compilers	3	–
Third	Comp3322	Computer ArchitectureI	3	–
Third	Comp 3323	Communications and network security I	3	–
Third	Comp 3324	Operations Research	3	–
Third	Comp 3325	Prolog Lang	3	–
Third	Comp 3326	Computer Architecture II	3	–
Third	Comp 3327	Communications and network security II	3	–
Third	Comp 3328	data security	3	–
Third	Comp 3329	Software Engineering	2	–
Third	Comp 3330	Methods of Computer Teaching	3	–
fourth	Univ4115	ArabicV	2	–
fourth	Call 4214	Curricula and textbooks	2	–
fourth	Call 4215	Educational administration and direction	2	–
fourth	Call 4216	Application	12	–
fourth	Comp 4331	databases	3	–
fourth	Comp 4332	Digital Image Processing	3	–
fourth	Comp 4333	Operating systems	3	–
fourth	Comp 4334	artificial intelligence	3	–

fourth	Comp 4335	visual programming	3	–
fourth	Comp 4336	Research Project Graduation	3	–

planning to evolve profile

Review the previous steps and their outputs Seeing updates from books, periodicals and the information network in the field of specialization Periodic (annual) updating of approved teaching plans.

14- standard admissions (put systems related By joining in college or institute)

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

most important Sources the information About the program

Books, periodicals, theses, the international information network, the personal experience of the course instructor.

### Scheme skills curriculum

Kindly put Signal in Squares the interview for output learning individuality from the program submissive for evaluation

#### outputs learning required from the program

the year / the level	Code scheduled	Nouns scheduled	Basic Mot her my choice	Objectives Cognitive				Objectives M arathi own w ith the program				Objectives S entimental a nd value				skills the public and rehabilitative mova ble (skills other related susceptibility recru itment and evolution personal)			
				a 1	a 2	a 3	a 4	B 1	B 2	B 3	B 4	c 1	c 2	c 3	c 4	Dr 1	Dr 2	Dr 3	D r4
The first	Univ1101	human rights	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
The first	Univ1102	Islamic Education I	Basic	√	√	√		√	√	√	√	√	√	√	√	√	√	√	
The	Uni	Arabic I	Basic	√	√	√	√	√		√	√	√	√	√	√	√	√	√	

first	v11																		
The first	03																		
	Uni v11 04	Islamic Education II	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
The first	Uni v11 05	English I	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
The first	Call 120 1	General Psychology	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
The first	Call 120 2	The basis of education	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
The first	Call 120 3	Developmental Psychology	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
The first	Call 120 4	principals of Education	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
The first	Comp1 301	Structured programming I	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
The first	Comp1 302	Computer logic design computer	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
The first	Comp 130 3	Differentiation	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
The first	Comp 130 4	Discrete structures I	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
The	Co	Structur	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

first	mp 130 5	ed program ming II																	
The first	Co mp1 306	Comput er techniqu es	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
The first	Co mp 130 7	Integrati on	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
The first	Co mp 130 8	Discrete structure s II	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
The first	Co mp 130 9	principal s of Office	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
the seco nd	Uni v21 07	Arabic II	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
the seco nd	Uni v21 09	Health and Environ ment Educatio n	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
the seco nd	Uni v21 10	English II	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
the seco nd	Uni v21 11	Democr acy	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
the seco nd	Call 220 5	Educatio nal Psychol ogy	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
the seco nd	Call 220 6	mental health	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
the seco	Call 220	Educatio nal	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√



nd	7	guidanc e																	
the seco nd	Call 220 8	Educatio nal Statistic s	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
the seco nd	Co mp2 310	Comput ational theory	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
the seco nd	Co mp2 311	Introduc tion to micropr ocessors and compute rs	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
the seco nd	Co mp 231 2	Program ming in C++	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
the seco nd	Co mp 231 3	Data structure s I	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
the seco nd	Co mp2 314	Systems Manage ment (Mainte nance)	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
the seco nd	Co mp 231 5	Numeric al Analysis	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
the seco nd	Co mp 231 6	Comput er graphics	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
the seco nd	Co mp2 317	Object Oriented Program ming OOP	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
the seco	Co mp	Data structure	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

nd	2318	s II																	
Thir d	Uni v3112	Arabic III	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Thir d	Call 3209	Researc h Methods	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Thir d	Call 3210	TMS	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Thir d	Call 3211	Measure ment and evaluati on	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Thir d	Call 3212	General methods of teaching	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Thir d	Call 3213	Viewing	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Thir d	Co mp 3320	Analysis systems	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Thir d	Co mp3 321	compiler s	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Thir d	Co mp3 322	Comput er Architec tureI	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Thir d	Co mp 3323	Communi cations and network security I	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Thir d	Co mp 332	Operatio ns Researc	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

	4	h																	
Thir d	Co mp 332 5	Prolog Lang	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Thir d	Co mp 332 6	Comput er Architec ture II	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Thir d	Co mp 332 7	Commu nication s and network security II	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Thir d	Co mp 332 8	data security	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Thir d	Co mp 332 9	Softwar e Enginee ring	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Thir d	Co mp 333 0	Methods of Comput er Teachin g	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
fourt h	Uni v41 15	ArabicV	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Fourt h	Call 421 4	Curricul a and textbook s	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
fourt h	Call 421 5	Educatio nal administ ration and direction	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
fourt h	Call 421	Applicat ion	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

	6																		
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	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

## 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	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/ 9/ 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	

### 1- Objectives Cognitive

- 1- That Known requester How to write algorithms and draw flowcharts
- 2- That Known requester Paradigm Programming Principles (modular programming)
- 3- That Known The top-down design approach Top-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 to timings Ministry And take into account At put questions inclusivity content scheduled scholastic and levels mental ( Remember , application, exploration).

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

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 required	learning	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		Principles of	Discussion	calendar

		programming in Pascal language	programming in Pascal language	and interrogation	structural
5	3	Pascal structure program	Pascal structure program	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 procedures Procedures	Learn about the procedures Procedures	Discussion and interrogation	calendar structural
10	3	Learn about the procedures Procedures And written	Learn about the procedures Procedures And 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



				on	
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, 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/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/ 9/ 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 requester image concept digital 2- That Known requester The concept of sampling 3- That Known requester Principles of quantization concept 4- That Known Types of image transformations 5- That Known requester The 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

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 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
10	3	Concept of types of digital image compression methods	Concept of types of digital image compression methods	Discussion and interrogation	calendar structural
11	3	Test Monthly	Test Monthly	–	calendar structural
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	calendar structural
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	calendar structural
14	3	audit scheduled	audit scheduled	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)	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/ 9/ 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 a	
1- To be able Students from get on me Knowledge and understanding from During absorb and analysis material systems the information	
2- To be able Students from get on me Knowledge and understanding for examples About systems the information in various ways its forms	
3- Empowerment Students from get on me Knowledge and understanding About material analysis Organized	
4- Empowerment Students from get on me Knowledge and understanding	

<p>No matter issues that Belonging to systems the information</p> <p>5- Empowerment Students from get on me Knowledge and understanding to analyze and interpretation issues material analysis Organized</p> <p>6- Empowerment Students from get on me Knowledge and understanding Bahm Sources and references study analysis Organized</p>
<p>B – Objectives Marathi own By decision.</p> <p>1- compare between Species analysis Organized different</p> <p>2- Analyze material analysis Organized And explains Her reasons</p> <p>3- Apply writing paper or Search in Theme from Topics analysis Organized</p> <p>4- Collect information About analysis Organized and systems the information</p>
<p>modalities education and learning</p>
<p>1. Supply Students With the basics and topics related Analyze Organized .</p> <p>2. Clarification And explain Subject tuition from Before Mr. Subject 3. Claim Students visit the library examining on me Sources study analysis Organized .</p>
<p>modalities Evaluation</p>
<p>1. Tests daily with questions specific</p> <p>2. Lay grades for assignments household and posts class .</p> <p>3. Tests monthly with questions objectivity and frying pan</p>
<p>B- Objectives Sentimental and value</p> <p>1. That explains And he analyzes evidence for analysis Organized of all kinds .</p> <p>2. differentiate between nature analysis Organized of all kinds .</p> <p>3. He resides Some texts and information About analysis Organized</p> <p>4. Compare between analysis Organized systems the information.</p>
<p>modalities education and learning</p>
<p>1. Method Solution the problems.</p> <p>2. storm mental .</p> <p>3. method simulation</p>
<p>modalities Evaluation</p>
<p>1. The exam Editorial To measure capacity requester on me thinking and analysis conclusion.</p> <p>2. writing Research About Some Examples analysis Organized.</p> <p>3. exams daily with guidance Questions intellectual and deductive.</p>
<p>skills the public and rehabilitative movable ( skills other related susceptibility recruitment and evolution profile ). D</p>



1. It is used Sources and references contemporary.
2. formation a group from Students to study analysis Organized and systems the information
3. Statement from institutions Country Same Relationship Analyze Organized to increase acquaintances Students and distribute it.
4. 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 Development Life 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	Design System the information It includes interface the user and lists and	lecture And casting	participation class

		information	systems sub		
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 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					
<p>1. Work on me Polarization Masters from universities other to throw Lectures Scientific specialized Analyze Organized .</p> <p>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</p>					

**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	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/ 9/ 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	
<p>A- Objectives Cognitive</p> <ol style="list-style-type: none"> <li>1. To be able Students from get on me Knowledge and understanding from During absorb and analysis material engineering software</li> <li>2. To be able Students from get on me Knowledge and understanding for examples About engineering software in various ways its forms</li> <li>3. Empowerment Students from get on me Knowledge and understanding About material engineering software</li> <li>4. Empowerment Students from get on me Knowledge and understanding No</li> </ol>	

matter issues that Belonging to engineering software

5. 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.

1. compare between Species engineering software different
2. Analyze material engineering software And explains Her reasons .
3. Apply writing paper or Search in Theme from Topics engineering software
4. 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

B- Objectives Sentimental and value

1. That explains And he analyzes engineering software of all kinds
2. differentiate between nature engineering software of all kinds
3. He resides Some texts and information About engineering software .
4. 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 ).

- 1- It is used Sources and references contemporary.

- 2- formation a group from Students to study engineering software
- 3- Statement from institutions Country Same Relationship engineering software to increase acquaintances Students and distribute it.
- 4- Statement from centers documents and libraries that Contains on me manuscripts and documents on me engineering software

structure scheduled

the week	hours	outputs required	learning	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 second	3	Enable Students from knowledge Organized Calculators	safety	safety Organized Calculators	lecture And casting	participation class
Third	3	Enable Students from save Forms About Cycle Development engineering software	Life	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 capsii.
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	
<p>1. Work on me Polarization Masters from universities other to throw Lectures Scientific specialized engineering software .</p> <p>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</p>	

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/ 9/ 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	
<p>A- Objectives Cognitive</p> <p>1- To make Students from get on me Knowledge and understanding from During absorb and analysis material structures data</p> <p>2- To make Students from get on me Knowledge and understanding for examples About structures data in various ways its forms</p> <p>3- Empowerment Students from get on me Knowledge and understanding</p>	

About material structures data a4- Empowerment Students from get on me Knowledge and understanding No matter issues that Belonging to structures data a

4- Empowerment Students from get on me Knowledge and understanding to analyze and interpretation issues material structures data

5- Empowerment Students from get on me Knowledge and understanding Bahm Sources and references study structures data

B – Objectives Marathi own By decision.

1. compare between Species structures data different
2. Analyze material structures data And explains Her reasons .
3. Apply writing paper or Search in Theme from Topics structures data
4. 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

B- Objectives Sentimental and value

1. That explains And he analyzes evidence for structures data of all kinds .
2. differentiate between nature structures data of all kinds .
3. He resides Some texts and information About structures data
4. 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 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/ 9/ 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 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 research Processes in detail	Specifications research Processes from analysis Processes During research	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	
<p>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</p>	

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/ 9/ 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 interrogation	duty my house
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 scheduled other	ingredients the computer profile Computer skills and applications Principles of computer science
requirements Especially	Accommodation courses Training in area uses the computer and its techniques .Accommodation courses training to use the network arachnoid Accommodation 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
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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	2020-2021
number hours tuition (total)	2 * 15 = 30
Date Preparation this the description	1/ 9/ 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 Internet and browse web	an introduction About Internet and browse web	Discussion and interrogation	calendar 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 interrogation	and	calendar structural
4	2	Safety and protection	Safety and protection	Discussion interrogation	and	calendar structural
5	2	change settings Inter net	change settings Inter net	Discussion interrogation	and	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 interrogation	and	calendar structural
8	2	build up Offers introductory using Templates design	build up Offers introductory using Templates design	Discussion interrogation	and	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 interrogation	and	calendar structural
10	2	Release and arrange offers introductory	Release and arrange offers introductory	Discussion interrogation	and	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	2020-2021
number hours tuition (total)	2 * 15 = 30
Date Preparation this the description	1/ 9/ 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 the computer and its components physical and software	Identify on the computer and its components physical and software	Discussion and interrogation	calendar structural
2	2	Identify on the user Face the user And how Close Calculator and re run it	Identify on the user 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	existing clicked the	Discussion and interrogation	calendar structural

		button right and surface the desk and its contents and bar mission and list Start	button right and surface the desk and its contents and bar mission and list Start		
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	Identify on me Window (window	Discussion and interrogation	calendar structural

		explorer)	explorer)		
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/ 9/ 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/ 9/ 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/ 9/ 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	Writing	Discussion and	calendar

		assembly language programme	assembly language programme	interrogation	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)	Treatments 8085 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/ 9/ 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 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
6	2	Test Monthly	Test Monthly	_____	calendar structural
7	2	coordination cell Line include change size	coordination cell Line include change size	Discussion and interrogation	calendar structural



		color Type Line make Writing black bold italics ruler alignment left to the right in the middle setting Writing	color Type Line make Writing black bold italics ruler alignment left to the right in the middle setting Writing		
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 interrogation	and calendar structural
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 interrogation	and calendar structural
10	2	Identify on me tapes the program tab Corresponden ce tab an offer	Identify on me tapes the program tab Corresponden ce tab an offer	Discussion interrogation	and calendar structural
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 interrogation	and calendar structural
12	2	Identify on me existing file	Identify on me existing file	Discussion interrogation	and calendar structural
13	2	backing down to me a step to me successor	backing down to me a step to me successor	Discussion interrogation	and calendar structural

		back to me step suffix	back to me step suffix		
14	2	preview Before printing and print Table All paper	preview Before printing and print Table All paper	Discussion interrogation	and calendar structural
15	2	Test Monthly	Test Monthly	_____	calendar structural

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	2020-2021
number hours tuition (total)	3 * 15 = 45
Date Preparation this the description	1/ 9/ 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 Office a3- Increase Awareness I have Students on the 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 Office 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 Office 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
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	Identify on me coordination	Discussion and interrogation	calendar structural

		Text from During ribbon the page Main	Text from During ribbon the page Main		
6	2	Test Monthly	Test Monthly	_____	calendar structural
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 interrogation	and calendar structural
8	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 interrogation	and calendar structural
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 interrogation	and calendar structural
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 interrogation	and calendar structural
11	2	Identify on me tapes the program tab Corresponden ce tab an offer	Identify on me tapes the program tab Corresponden ce tab an offer	Discussion interrogation	and calendar structural
12	2	Identify on me existing file	Identify on me existing file	Discussion interrogation	and calendar structural

13	2	employment fallow Point and create an offer introductory new	employment fallow Point and create an offer introductory new	Discussion interrogation and	calendar structural
14	2	build up Offers introductory using Templates design	build up Offers introductory using Templates design	Discussion interrogation and	calendar structural
15	2	Test Monthly	Test Monthly	_____	calendar structural

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/ 9/ 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 coordinatio n Text from	Identify on me coordinatio n Text from	Discussion and interrogation	calendar structural

		During ribbon the page Main	During ribbon the page Main		
6	2	Test Monthly	Test Monthly	_____	calendar structural
7	2	coordinatio n cell Line include change size color Type Line make Writing black bold italics ruler alignment left to the right in the middle setting Writing	coordinatio n 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	calendar structural
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	calendar structural
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	calendar structural
10	2	Identify on me tapes the program tab formulas tab data	Identify on me tapes the program tab formulas tab data	Discussion and interrogation	calendar structural

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	calendar structural
12	2	formula ingredients formula Factors Comparison Utilization parentheses	formula ingredients formula Factors Comparison Utilization parentheses	Discussion and interrogation	calendar structural
13	2	Definition of function build up formulas arithmetic	Definition of function build up formulas arithmetic	Discussion and interrogation	calendar structural
14	2	build up Formula Includes function ready	build up Formula Includes function ready	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)	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/ 9/ 2023
<b>9- Course Objectives:</b> 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 –	
<b>outputs scheduled and modalities education and learning and evaluation</b>	

**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 ( 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 week	hours	outputs learning required	Noun Unit / or Topic	method education	method 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 in Technology 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	theory Connection And its role in proces learning	Debate and questioning	calendar structural



		pedagogical			
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
10	2	moons industrial and her work	Definition of by satellites industrial And how her job	Debate and questioning	calendar structural
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	calendar structural
12	2	Design education	How Design the program educational	Debate and questioning	calendar structural
13	2	the environment local and design techniques pedagogical	How Design techniques pedagogical from the environment	Debate and questioning	calendar structural

			local		
14	2	Some Width	devices an offer devices Before students and operate it	Discussion	calendar structural
15	2	Some Width	devices an offer devices Before Students and running	Discussion	calendar structural
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	<b>Diyala University / College of Basic Education</b>
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/ 9/ 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.	



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/ 9/ 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 required	learning	Noun Unit / or Topic	method education	method Evaluation
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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 construct charts	language C++ to draw	diction And interrogation	duty my house
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/ 9/ 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 required	learning	Noun Unit / or Topic	method education	method Evaluation
1-2	6	Learn basics Grammar data	basics	basics Grammar data	diction and the lecture	Exam daily
3-4-5	9	Learn building and create Grammar data	building and create	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/ 9/ 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 required	learning	Noun Unit / or Topic	method education	method Evaluation
1-2	6	Learn basics	OOP	basics	OOP	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	ingredients	OOP	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	
<p>– 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 .</p>	

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/ 9/ 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 required	learning	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 Logical	Algebra	Algebra Logical	Discussion and interrogation	Exam daily
5	3	knowledge simplification Logical	Methods portals	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 Plural and subtraction and comparator	circles	portals vehicle	Discussion and interrogation	Exam daily
9	3	knowledge Logical sequential	circles	circles Logical	Discussion and	Questions interrogative

			sequential	interrogation	
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 scheduled other	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/ 9/ 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 required	learning	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 Logical	Algebra	Algebra Logical	Discussion and interrogation	Exam daily
5	3	knowledge simplification Logical	Methods portals	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 Plural and subtraction and comparator	circles	portals vehicle	Discussion and interrogation	Exam daily
9	3	knowledge Logical sequential	circles	circles Logical sequential	Discussion and interrogation	Questions interrogative
10	3	knowledge Hoppers	Species	HoppersFlip-Flop	Discussion and	Exam sudden

				interrogation	
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 scheduled other	Fundamental Logic
requirements Especially	Accommodation courses Training in area uses the computer and build it .Accommodation courses training to use the network arachnoid Accommodation 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	Organized employment
shapes Attendees available	Is mandatory
the classroom / the year	the classroom scholastic first / year fourth
number hours tuition (total)	3 * 15 = 45 hours
Date Preparation this the description	1/ 9/ 2023

Goals scheduled

Introduce students to the concept of operating systems.

Introducing students to multiple processing systems.

3- Introduce students to distributed systems.

Introducing students to the structure of operating systems

Introduce the student to the components of the operating system.

Introducing the student to the operating system services.

outputs scheduled and modalities education and learning and evaluation

A- Objectives Cognitive a1- Tamkeen Students from get on me Knowledge and understanding systems Employment . a2- Tamkeen Students from get on me Knowledge and understanding systems processing multi. a3- Empowerment Students from get on me Knowledge and understanding to structural System Employment. a4- Empowerment Students from get on me Knowledge and understanding components System Employment . a5- Empowerment Students from get on me Knowledge and understanding for services System Employment . a6- Empowerment Students from get on me Knowledge and understanding for how Administration memory .

B – Objectives Marathi own By decision. B1 – Ability on me deal With Organized Employment B2 – ability on me . 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 system Employment 2. Clarification And explain Subject tuition from Before Mr. Subject 3. Claim Students visit the library examining on me Sources study Organized Employment .

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 required	learning	Noun Unit / or Topic	method education	method Evaluation
1	3	Learn Organized	Concept	Organized Employment	Discussion and	Exam daily



		Employment		interrogation	
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 interrogation	duty my 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 central	scheduler Alone processing central	Discussion and interrogation	Exam daily
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			
structure substratum					
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			
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					