

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



Academic Program and Course Description Guide

2025-2026

Academic Program Description Form

University Name: Diyala University

Faculty/Institute: College of Basic Education

Scientific Department: Computer Science

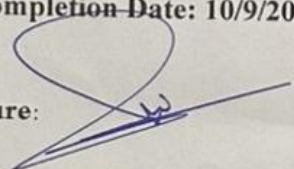
Academic or Professional Program Name: Basic Education-computer science

Final Certificate Name: Bachelor's degree in basic education

Academic System: Semester courses

Description Preparation Date: 10/9/2025

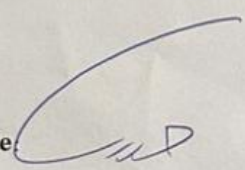
File Completion Date: 10/9/2025

Signature: 

Head of Department Name:

Shaymaa Taha Ahmed

Date: 10/9/2025

Signature: 

Scientific Associate Name:

Haider A.A Mohammed

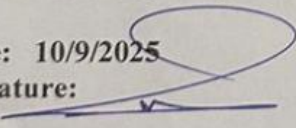
Date: 10/9/2025

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 10/9/2025

Signature: 


Approval of the Dean
Ayman Abdoun Nazal

1. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
2025-2026			theoretical	Practical
First	DEMFII	Human rights	1	-
First	ARBFII	Arabic I	2	-
First	ENGF12	English I	2	-
First	DFVF11	Basics of psychology	3	-
First	EDUF12	Fundamentals of basic education and its principles	3	-
First	ED-CO-SE-1	Health and environmental education	2	-
First	ISLF12	Islamic Education / Civilization	3	-
First	CSB15SP111	Structured programming I	3	\
First	CSB15LD122	Computer logic Design computer	3	\
First	CSB15DS214	Differentiation	2	-
First	CSB15SP121	Discrete structures I	3	-
First	Comp 1306	Structured programming II	3	\
First	CSB15DS224	Computer techniques	3	\
First	ARBF12	Integration	3	-
First	CURSE3	Discrete structures II	2	\
First	ENGSE3	principals of Office	2	\

Course Description Form

This course description provides a necessary summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made the most of the available learning opportunities. It must be linked to the program description.;	
Enterprise educational	College Education the basic
Section Scientific / Center	Calculators
Noun / Code scheduled	Structured programming I/ Comp 1301
shapes Attendees available	Is mandatory
the classroom / the year	the classroom scholastic the first / the first year
number hours tuition (total)	3×15 = 45
Date Preparation this the description	1/ 10/ 2025
Goals Decision: that is being requester knowledgeable with concepts following	
1. Algorithms and flowcharts	
2. Principles of Modular Programming	
3. Top-Down Design Approach	
4. Principles of structured programming	
5. Pascal Program Structure	
6. Write the expression in the Pascal language	
7. Allocation and I/O statements	
8. Procedures & Functions	
9. Control and decision-making sentences	

outputs scheduled and modalities education and learning and evaluation
A- Objectives Cognitive 1- That Known requesterHow to write algorithms and draw flowcharts 2- That Known requester Paradigm Programming Principles (modular programming) 3- That Known The top-down design approachTop-Down) 4- That Known requester Principles of structured programming 5- That Known requesterProgram 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 statementsI/O) 8- That Known requester How to write procedures and functionsProcedures & 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 statementsI/O) 5-Writing procedures and functionsProcedures & Functions) 6- use Control sentences and how to make a decision
modalities education and learning
in Start the classroom Being inform Students vocabulary scheduled scholastic and sources the information (Books Same Relationship , periodicals , Messages undergraduate) and distributed vocabulary on me weeks the classroom scholastic, and Techniques Calendar that will run followed , my agencies: 1. Initialize Lectures According to sequence Which rose in scheduled scholastic About road help with sources the information precedent The remembrance. 2. Inform Students About Theme lecture coming with intent config. 3. Demand from Students Submit Leaves Belonging to subject or more from themes restriction studying.
modalities Evaluation
1. Procedure two exams two quarters the first distance expiration the week Fifth from the classroom scholastic And the second distance the week The tenth from the classroom scholastic and considerate in All Exam levels mental (Remember , application, exploration) where Degree Calendar to her 40% of achievement total on me that Takes I see consideration perseverance requester and volume Share it daily. 2. Exam End the classroom scholastic And for him 60% of achievement According timings Ministry And take into account At put questions inclusivity content scheduled scholastic and levels mental (Remember , application, exploration).
C- Objectives Sentimental And value :that is being requester able on me 1- Definition algorithm And chart streamlined 2- Writing expression Arithmetic 3- Writing camel personalization And input And output 4- Get acquainted on me the difference between procedures And functions 5- Get acquainted on me How Utilization camel the decision
Dr – skills the public And Qual movable (skills other related susceptibility recruitment and evolution profile). 1- Employment skills earned in education Knowledge sports I have Students Stage education Basis. 2- Choose Examples from Established education Basis And to each Of which skills that eat it scheduled scholastic. 3- Evaluation Bezel acquisition pupils education

Basis for skills application. 4- Building Tests Especially domains thinking Logical for pupils
Stage education Basis.

structure scheduled

the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation
1	3	Concept of algorithm and flowchart	Concept of algorithm and flowchart	Discussion and interrogation	calendar structural
2	3	The concept of paradigm programming	The concept of paradigm programming	Discussion and interrogation	calendar structural
3	3	Design concept from top to bottom	Design concept from top to bottom	Discussion and interrogation	calendar structural
4	3	Principles of programming in Pascal language	Principles of programming in Pascal language	Discussion and interrogation	calendar structural
5	3	Pascal program structure	Pascal program structure	Discussion and interrogation	calendar structural

6	3	Test Monthly	Test Monthly	–	calendar structural
7	3	Use the arithmetic expression	Use the arithmetic expression	Discussion and interrogation	calendar structural
8	3	Use assignment, input and output statements	Use assignment, input and output statements	Discussion and interrogation	calendar structural
9	3	Learn about the proceduresProcedures	Learn about the proceduresProcedures	Discussion and interrogation	calendar structural
10	3	Learn about the proceduresProceduresAnd written	Learn about the proceduresProceduresAnd written	Discussion and interrogation	calendar structural
11	3	Test Monthly	Test Monthly	–	calendar structural
12	3	Identify on me functions Functions and written	Identify on me functions Functions and written	Discussion and interrogation	calendar structural

13	3	Identify on me camel take the decision	Identify on me camel take the decision	Discussion and interrogation	calendar structural
14	3	Identify on me camel the control	Identify on me camel the control	Discussion and interrogation	calendar structural
15	3	audit scheduled	audit scheduled	Discussion and interrogation	calendar structural

structure substratum

1- The required textbooks	Nothing
2 main references (sources)	Fundamentals of programming in Pascal language. Written by Dr. Nidal Khudair Al-Abadi
Recommended books and references (scientific journals, 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 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 first year
number hours tuition (total)	3×15 = 45
Date Preparation this the description	1/ 10/ 2025
Goals Decision: that is being requester knowledgeable with concepts following	
1. Introduction to digital image processing	
2. Image Sampling	
3. Image Quantization	
4. Image Transformations	
5. Image Filtering	
6. Image Zooming	
7. Image Compression	

outputs scheduled and modalities education and learning and evaluation
A- Objectives Cognitive 1- That Known requesterimage concept digital 2- That Known requesterThe concept of sampling 3- That Known requester Principles of quantization concept 4- That Known Types of image transformations 5- That Known requesterThe concept of image filtering and types of filters 6- That Known requester How to change the image scale in several ways 7- That Known requester Concept pressure Pictures And Species techniques Pressure
B – Objectives Marathi own By decision. that made up I have Students skills with concepts coming 1-Write a program about opening a digital image 2- Writing a program to apply Concept quantification 3-Write a program to show the types of image transformations 4- Writing a program About Implementation Some filters on me Picture 5-Write a program to apply image scaling methods
modalities education and learning
in Start the classroom Being inform Students vocabulary scheduled scholastic and sources the information (Books Same Relationship , periodicals , Messages undergraduate) and distributed vocabulary on me weeks the classroom scholastic, and Techniques Calendar that will run followed , my agencies: 1. Initialize Lectures According to sequence Which rose in scheduled scholastic About road help with sources the information precedent The remembrance. 2. Inform Students About Theme lecture coming with intent config. 3. Demand from Students Submit Leaves Belonging to subject or more from themes restriction studying.
modalities Evaluation
1. Procedure two exams two quarters the first distance expiration the week Fifth from the classroom scholastic And the second distance the week The tenth from the classroom scholastic and considerate in All Exam levels mental (Remember , application, exploration) where Degree Calendar to her 40% of achievement total on me that Takes I see consideration perseverance requester and volume Share it daily. 2. Exam End the classroom scholastic And for him 60% of achievement According timings Ministry And take into account At put questions inclusivity content scheduled scholastic and levels mental (Remember , application, exploration).
C- Objectives Sentimental And value :that is being requester able on me 1- Definition Picture digital 2- Definition my operation sampling And quantification 3- Apply Species Transfers Picture 4- Male Species filters 5- Apply Species modalities change measurement Picture 6- Comparison between modalities pressure Picture
Dr – skills the public And Qual movable (skills other related susceptibility recruitment and evolution profile). 1- Employment skills earned in education Knowledge sports I have Students Stage education Basis. 2- Choose Examples from Established education Basis And to each Of which skills that eat it scheduled scholastic. 3- Evaluation Bezel acquisition pupils education Basis for skills application. 4- Building Tests Especially domains thinking Logical for pupils Stage education Basis.

structure scheduled					
the 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	Concept of image optimization	Discussion and interrogation	calendar structural

		process using diagram	process using diagram		
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 first year
number hours tuition (total)	30 hours
Date Preparation this the description	1/ 10/ 2025
Goals scheduled	

Understand the basic concepts of analyzing and developing information systems in the organization
Understand the main stages in the systems development life cycle
3- Identify and collect information system requirements
Infer system specifications through system analysis
Provide clear system analysis and design using diagrams
outputs scheduled and modalities education and learning and evaluation
A- Objectives Cognitive a1- Tamkeen Students from get on me Knowledge and understanding from During absorb and analysis material systems the information a2- Tamkeen Students from get on me Knowledge and understanding for examples About systems the information in various ways its forms a3- Empowerment Students from get on me Knowledge and understanding About material analysis Organized a4- Empowerment Students from get on me Knowledge and understanding No matter issues that Belonging to systems the information a5- Empowerment Students from get on me Knowledge and understanding to analyze and interpretation issues material analysis Organized a6- Empowerment Students from get on me Knowledge and understanding Bahm Sources and references study analysis Organized
B – Objectives Marathi own By decision. B1 – compare between Species analysis Organized different B2 – Analyze material analysis Organized And explains Her reasons . B3 – Apply writing paper or Search in Theme from Topics analysis Organized B4- Collect information About analysis Organized and systems the information
modalities education and learning
1. Supply Students With the basics and topics related Analyze Organized . 2. Clarification And explain Subject tuition from Before Mr. Subject 3. Claim Students visit the library examining on me Sources study analysis Organized .
modalities Evaluation
1. Tests daily with questions specific 2. Lay grades for assignments household and posts class . 3. Tests monthly with questions objectivity and frying pan
C- Objectives Sentimental and value c1- That explains And he analyzes evidence for analysis Organized of all kinds . c2- differentiate between nature analysis Organized of all kinds . c3- He resides Some texts and information About analysis Organized . c4- Compare between analysis Organized systems the information.
modalities education and learning

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

		System the information			
Fifth	3	the definition With all Specifications the system in detail	Specifications the system from During analysis the system	lecture And casting	participation class
VI	3	Enable Students from knowledge patterns Design System the information	Design System the information It includes interface the user and lists and systems sub	lecture And casting	participation class
VII			the exam monthly		

structure substratum	
1 books assessed required	– analysis and design Organized the information – analysis and design systems
2 the reviewer Main (Sources)	analysis Organized , Dr Saad Ghalib Yassen. analysis and design systems , Slave The sustenance safety
a books and references that recommend with it (Journals 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 Analyze Organized . 2. assignment Students Achievement Research study field what suffer language anti from problems social And psychology and put Solutions effective for those the problems and tackle phenomena that He suffers Of which Darso analysis Organized

M. Ban Jawad Kazem

Course description form

This course description provides a necessary summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made the most of the available learning opportunities. It must be linked to the program description.;	
Enterprise educational	College Education the basic
Section Scientific / Center	Calculators
Noun / Code scheduled	engineering software
shapes Attendees available	Is mandatory
the classroom / the year	the classroom scholastic The second / the first year
number hours tuition (total)	30 hours
Date Preparation this the description	1/ 10/ 2025
Goals scheduled	
Understand the basic concepts of computer programming	
Understand the basic stages in data structures and algorithms	
3- Identify and achieve the life cycle of software operations	
Infer system specifications from software requirements	
Provide clear analysis and design of the system using toolsCASE in software engineering	
outputs scheduled and modalities education and learning and evaluation	
A- Objectives Cognitive a1- Tamkeen Students from get on me Knowledge and understanding from During absorb and analysis material engineering software a2- Tamkeen Students from get on me Knowledge and understanding for examples About engineering software in various ways its forms a3- Empowerment Students from get on me Knowledge and understanding About material engineering software a4- Empowerment Students from get on me Knowledge and understanding No matter issues that Belonging to engineering software a5- Empowerment Students from get on me Knowledge and understanding to analyze and interpretation issues material engineering software a6- Empowerment Students from get on me Knowledge and understanding Bahm Sources and references study engineering software	
B – Objectives Marathi own By decision. B1 – compare between Species engineering software different B2 – Analyze material engineering software And explains Her reasons . B3 – Apply writing	

paper or Search in Theme from Topics engineering software B4- Collect information About engineering software					
modalities education and learning					
1. Supply Students With the basics and topics related engineering software. 2. Clarification And explain Subject tuition from Before Mr. Subject 3. Claim Students visit the library examining on me Sources study engineering software.					
modalities Evaluation					
1. Tests daily with questions specific 2. Lay grades for assignments household and posts class . 3. Tests monthly with questions objectivity and frying pan					
C- Objectives Sentimental and value c1- That explains And he analyzes engineering software of all kinds . c2- differentiate between nature engineering software of all kinds . c3- He resides Some texts and information About engineering software . c4- Compare between engineering software.					
modalities education and learning					
1. Method Solution the problems. 2. storm mental . 3. method simulation					
modalities Evaluation					
1. The exam Editorial To measure capacity requester on me thinking and analysis conclusion. 2. writing Research About Some Examples engineering software. 3. exams daily with guidance Questions intellectual and deductive.					
Dr – skills the public and rehabilitative movable (skills other related susceptibility recruitment and evolution profile). Dr1- It is used Sources and references contemporary. Dr2- formation a group from Students to study engineering software Dr3- Statement from institutions Country Same Relationship engineering software to increase acquaintances Students and distribute it. Dr4- Statement from centers documents and libraries that Contains on me manuscripts and documents on me engineering software					
structure scheduled					
the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation
the first	3	Enable Students from Understanding	Administration proces engineering software	lecture And casting	participation class

		engineerin g software			
The second	3	Enable Students from knowledg e safety Organized Calculator s	safety Organized Calculators	lecture And casting	participation class
Third	3	Enable Students from save Forms About Cycle Life Developm ent engineerin g software	Cycle Life Development engineering software	lecture And casting	participation class
the fourth	3	Enable Students from knowledg e setting Quality software	setting Quality software	lecture And casting	participation class
Fifth	3	the definition With all Specificati ons the system in detail	Specifications the system from During Development rapid software	lecture And casting	participation class
VI	3	Enable Students from knowledg e Administr ation	Administration project software	lecture And casting	participation class

		project software			
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 capsu.
a books and references that recommend with it (Journals Scientific , reports ,....)	Claim Students in numbers reports monthly About themes that They study it
B – the reviewer Electronic, sites the internet	– Location Archives – Location allure – Location Our library Arabic

plan Development scheduled scholastic
1. Work on me Polarization Masters from universities other to throw Lectures Scientific specialized engineering software . 2. assignment Students Achievement Research study field what suffer language anti from problems social And psychology and put Solutions effective for those the problems and tackle phenomena that He suffers Of which Darso analysis Organized

M. Ban Jawad Kazem

Course description form

Course description

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

shapes Attendees available	Is mandatory
the classroom / the year	the classroom scholastic the first / the first year
number hours tuition (total)	30 hours
Date Preparation this the description	1/ 10/ 2025
Goals scheduled	
Understand the basic concepts of analyzing and developing data structures in the calculator	
Understand the basic stages in the formation of data structures	
3. Identify and obtain data structures requirements	
Infer the specification of the graphic structure by analyzing the data	
Provide clear analysis and design of a graphical structure using charts	
outputs scheduled and modalities education and learning and evaluation	
A- Objectives Cognitive a1- Tamkeen Students from get on me Knowledge and understanding from During absorb and analysis material structures data a2- Tamkeen Students from get on me Knowledge and understanding for examples About structures data in various ways its forms a3- Empowerment Students from get on me Knowledge and understanding About material structures data a4- Empowerment Students from get on me Knowledge and understanding No matter issues that Belonging to structures data a5- Empowerment Students from get on me Knowledge and understanding to analyze and interpretation issues material structures data a6- Empowerment Students from get on me Knowledge and understanding Bahm Sources and references study structures data	
B – Objectives Marathi own By decision. B1 – compare between Species structures data different B2 – Analyze material structures data And explains Her reasons . B3 – Apply writing paper or Search in Theme from Topics structures data B4- Collect information About structures data and structures data	
modalities education and learning	
1. Supply Students With the basics and topics related with structures data . 2. Clarification And explain Subject tuition from Before Mr. Subject 3. Claim Students visit the library examining on me Sources study structures data .	
modalities Evaluation	
1. Tests daily with questions specific 2. Lay grades for assignments household and posts class . 3. Tests monthly with questions objectivity and frying pan	

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

modalities education and learning

1. Method Solution the problems. 2. storm mental . 3. method simulation

modalities Evaluation

1. The exam Editorial To measure capacity requester on me thinking and analysis conclusion. 2. writing Research About Some Examples structures data. 3. exams daily with guidance Questions intellectual and deductive.

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

structure scheduled

the week	hours	outputs learning required	Noun Unit / or Topic	method education	method Evaluation
the first	3	Enable Students from Understanding structures graphic and analyze it	analysis and design structures graphic	lecture And casting	participation class
The second	3	Enable Students from knowledge structures data	analyzer systems	lecture And casting	participation class
Third	3	Enable Students from save Forms About acting data	Forms About acting data	lecture And casting	participation class
the fourth	3	Enable Students from knowledge requirements structures evidence	requirements structures data	lecture And casting	participation class
Fifth	3	the definition With all Specifications the structure My statement in detail	Specifications the structure My statement from During analysis the structure My statement	lecture And casting	participation class

VI	3	Enable Students from knowledge patterns Design structure My statement the information	Design structure My statement the information It includes interface the user and lists and systems sub	lecture And casting	participation class
VII			the exam monthly		
structure substratum					
1 books assessed required				– structures data – datastructure	
2 the reviewer Main (Sources)				structures data , Dr Essam yolk. Data structure, john annie smith	
a books and references that recommend with it (Journals Scientific , reports ,....)				Claim Students in numbers reports monthly About themes that They study it	
B – the reviewer Electronic, sites the internet				– Location Archives – Location allure – Location Our library Arabic	
plan Development scheduled scholastic					
1. Work on me Polarization Masters from universities other to throw Lectures Scientific specialized with structures data . 2. assignment Students Achievement Research study field what suffer language anti from problems social And psychology and put Solutions effective for those the problems and tackle phenomena that He suffers Of which They studied structures data					