Academic Program Description Form

University Name: Wasit University

Faculty/Institute: computer science and IT faculty

Scientific Department: Computer science

Academic or Professional Program Name: Computer science

Final Certificate Name: Computer science

Academic System: Courses

Description Preparation Date: 10/3/2024

File Completion Date: 10/3/2024

Signature:

Head of Depa

Signature:

Scientific Associate Name:

Date: 10/03/2024

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: (0/3/2029

Signature:

Approval of the Dean

2024.3.10

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

Introduction:

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

The academic program description is a short summary of the main features of the rogram and its courses. It shows what skills students are working to develop based in the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together not the supervision of scientific committees in the scientific departments.

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

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

Concepts and terminology:

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

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

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

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

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

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

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

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

Concepts and terminology

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

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 or she has made the most of the available learning opportunities. It is derived from the program description

<u>Program Vision:</u> An ambitious picture for the future of the academic program to be an advanced inspiring, motivating, realistic and applicable programme

The program's mission: It briefly explains the goals and activities necessary to achieve them and also defines the program's development paths and directions

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

Curriculum structure: All courses/study subjects included in the academic program according to the approved learning system (semester, annual, Bologna track), whether it is a requirement (ministry, university, college, or scientific department), along with the number of study units Learning outcomes: A consistent set of knowledge, skills, and values that the student has acquired after the successful completion of the academic program. The learning outcomes for each course must be determined in a way that achieves the program objectives

<u>Feaching and learning strategies</u>: They are the strategies used by the faculty member to develop the student's teaching and learning, and they are plans that are followed to reach the earning goals. That is, it describes all curricular and extracurricular activities to achieve the learning outcomes of the programme

Academic program description form

University name: University of... Wasit...

College/Institute: College of Computer Science and Information Technology...

. Department Computer......

Name of the academic or professional program: Bachelor's degree... Computer

Science

Name of final degree: Bachelor of Science in. Computer Science.....

emester :Academic system

Description preparation date: 3/10/2024

Date of filling the file: 3/10/2024

التوقيع: التوقيع: السم المعاون العلمي: اسم المعاون العلمي: التاريخ: التاريخ:

Check the file before

Division of Quality Assurance and University Performance

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

the date

he signature

Authentication of the Dean

1. See the program

Seeking college Computer science and information technology to prepare graduates in the field of computer science to work in government departments and benefit .from specialization in the practical and applied field

2. Program message

Working to prepare and graduate leading scientific and leadership competencies in the field of computer science and to develop the balance of knowledge in the field of scientific research in the field of computers in order to serve the local, regional and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values . .and responding to the requirements of the local market

3. Goals The programme Academic

- 1) Preparation And qualify Specialists To meet Requirements Market Work Sectorally General And private In Science Computer and information technology through diversification in learning and teaching methods Training students to apply knowledge And skills Earned To solve Problems Realistic.
- 2) Initialization Climate appropriate For students And with what They can From Application Their knowledge And their skills Earned In Recognition On Needs And problems The community And things Social Self The relationship By computer And And technology Information.
- 3) Submission Programs Academy Distinguished In Field Science The computer And And technology Information In a bad way Theoretical And application Agree With Standards International For quality Academy And you meet A need Market Work.
- 4) Encouragement And development Search Scientific In Fields Science The computer And technology Information In a way General And Fields of artificial intelligence, Linguistics And software, Networks Rules Data.
- 5) Preparation Environment Motivating For members Authority Teaching To develop Their knowledge And their skills Educational And research.

6) Building And development Partnership With Sectors Government And eligibility And society In all His institutions different

4. Program accreditation

nothing

5. Other external influences

nothing

6. Program structure

<u> </u>				
* comments	percentage	Study unit	Number of	Program structure
			courses	
Basic course		90	90	Enterprise
				requirements
			Yes	College requirements
			Yes	Department
				requirements
			Yes	summer training
				Other

[.]Notes may include whether the course is core or elective *

- . Outputs Learning required And ways 10 Education And learning And evaluation
 - A- Knowledge And understanding
 - A- The student learns programming languages 1
 - A- Capacity On Ejaad Solutions Scientific For problems The 2 community Programmatically.
 - A- Capacity On Use And development Means Contact And 3 networks Wireless And wireless
 - A- The ability to analyze software systems and evaluate them 4 .before starting to design the system
 - A- Development Skills The student In Building Systems Memory 5 Which It depends On Basis Analysis And the conclusion

And realization And learning Self

- A Supply The student Some The rules Basic In Evaluate And 6 build The organization Software By accreditation On Basics Engineering Software.
- A Increase Information The student On Basics Implementation 7 Systems Software From During They understand Mechanism Work The computer.

B-SkillsPrivate By topic

B 1-Look

B 2- My

work

B 3-Training Summer

B4- Research Get out

Ways Education And learning

Ways Education And learning

- 1- Lectures Theory
- 2- Practical laboratories
- 3- Search And investigation
- 4- Groups Discussion Within Lessons The process

Ways Evaluation

- 1- Exams Oral And editorial
- 2- Projects Research
- 3- Class discussions
- 4- Evaluate Duties And discussions
- 5- Evaluate Research Individual And collective
- 1- The regular blackboard
- 2- Electronic whiteboard
- 3- Device Display data

Ways Evaluation

- 1- Exams Central And monthly.
- 2- Exams The moment
- 3- Scientific reports
- 4- Exams Process
- 5- Research projects
- C- Skills Thinking
- C- The skill of deduction and analysis 1
- C- Skill Comparison 2
- C- skills Discussion 3
- C- Skills Use The accountant Automatic And a network Internet 4
- C5-Skill Search And investigation
- C Skill Action Research And extract Results 6
- C- Skill Take The decision 7

. Planning To develop Personal 11

- 1- Education Electronic
- 2- Use of Internet means
- 3- Use Means Contact Modern
- . Standard Acceptance 12) mode Systems related By joining Totally or Institute(
 - 1- Acceptance Central
 - 2- Rate The student Within Lists Acceptance Central Exception Sons Teachers Where It is done Accept them According to (desire) To distribute them On Sections.
- . Most important Sources Information About The programme 13

Location College The official one https://cit.uowasit.edu.iq Page includes Information About College And the section On Location Communication Social(facebook)

https://www.facebook.com/wasitcomp?mibextid=LQQJ4d

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		e	mme	rogra	The p	rom T	ed Fi	equir	ing r	earni	uts L	Outp										
ye Chap	Name of the rapporteur	Ess enti al or opti	1.		ctives ledge	Know	ŀ		Objectives Programspecific skills				Objectives Existentia lism And value 4c 3 2c 1				le	ovablated and nent(ers re bility elopn	ficati Othe ploya	Quali Skills Em _l sona) S
		ona ?l	1 a	2a	3a	4a	5a	6a	10	20	30	40	c	26	c	4¢	1 d	2 d	3 d	d	5 d	6 d
	Programming An entity	Basic	✓	✓	✓	✓	√	✓	✓	✓	✓	✓	√	✓	✓	√	√	✓	✓	✓	✓	/
	Information theory	my choice	✓	✓	✓	✓	✓	✓	✓	✓	√	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	/
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,stag	Database principles	Basic	✓	✓	✓	✓			✓	✓			✓	✓	✓	✓	✓			✓	✓	/
chapt Firs	Accountability	Basic		✓	✓	✓			✓	✓			✓	✓		✓	✓			✓		/
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	Structures Data (2)	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	/
	Data retrieval and web search	my choice	✓	✓	✓	<			✓				✓	<		✓	✓	✓		<		
Th	Computer drawing	Basic	√	✓	✓	✓	✓	✓	✓	✓	√	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	/
secoi stag	Architectural The computer	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	/
chap The sec	Visual programming	Option al		✓	✓	✓			✓	✓			√	✓	√	√	✓			✓		
semes	Modeling and simulation	Option al		✓	✓	√			✓	✓				√		✓	✓			✓		/
	English language (2)	my choice		✓	√				✓					√			✓			√		/
The s	Engineering Software	Basic	✓	✓	✓	<	√	✓	✓	✓	<	✓		<		✓	✓			<		

Dusic

First	intelligence																					
academ ic year	Computer Networks (1)	my choice		✓	✓	✓			✓	✓		✓	✓	✓	√	✓	✓	✓		√		✓
	Multimedia systems	my choice		✓	✓	✓		√	✓	✓		√	√	✓	√	√	✓	✓		√		✓
	Translations (1)	Basic	✓	✓	✓	✓	✓	✓	✓	✓	√	✓	✓	✓	✓	✓	✓	✓	√	✓	✓	/
	Operations research	Option al		✓	√	✓			✓	✓		✓	✓	✓	✓	✓	✓	✓		√		√
	+English language	Option al		✓	✓	✓			✓	✓		✓	✓	√	√	√	✓	✓		✓		/
	Encryption	Basic	\checkmark	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	\checkmark	✓	✓	✓	\checkmark	✓
	Translators (2)	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	√
The thin stage	Computer Networks (2)	Basic	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓	√
chapte The secon	Rules Data Distributed	Option al	✓	✓	>	✓	✓	✓	✓	✓		✓	✓			✓	✓	✓	✓	√	✓	✓
semeste	Website programming	Basic	✓	✓	✓	✓	✓	✓	✓	✓	√	✓	✓	✓	✓	✓	✓	✓	√	✓	✓	✓
	Excavation Data	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	√	✓	✓	✓	✓
	Website programming	Basic	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
	Operating systems	Basic	✓	✓	\	✓	✓	✓	✓	✓		✓	✓	✓	✓	\	✓	✓	✓	✓	✓	✓
The stag	Image processing Digital	my choice		✓	√	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Four Fin	Distributed systems	Option al	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	√	√	✓	✓	✓	√	✓	✓
year	Algorithms	Option al		✓	√	✓	✓	✓	✓	✓		✓	✓	√	√	√	✓	✓	√	√	✓	✓
	Security Computers And networks	Basic	✓	✓	✓	✓	✓	✓	✓	√	✓	✓	✓	✓	✓	√	✓	✓	✓	√	✓	✓

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																				Basic	Project Get out	The stage Chapter
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✓	✓	✓	✓	√	✓	✓	√	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	Option al	The Internet of things	semester
✓	√	✓	✓	√	√	✓	√	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	Option al	English language	

The stage The second

- 1- Entity programming
- 2- Information theory
- 3- Data Structures(1)
- **4- Database principles**
- 5- Numerical methods
- 6- Accountability
- 7- Data retrieval and web searching
- 8- Computer drawing
- 9- Data Structures (2)
- 10- Visual programming
- 11- Modeling and simulation
- 12- Computer architecture
- 13- English language

Model Description The decision

Description The decision: Programming An entity

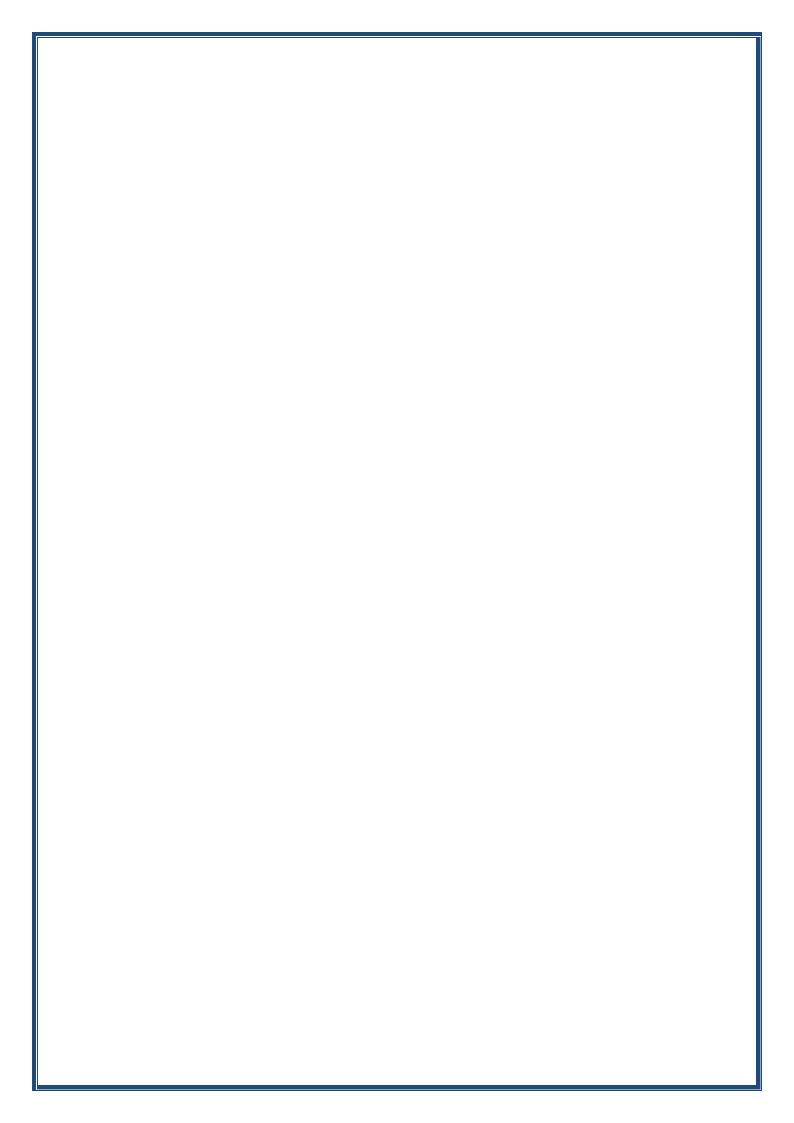
(Object Oriented Programming (OOP))

يوفر وصف المقرر هذا إيجازاً مقتضياً لأهم خصائص المقرر ومخرجات التعلم المتوقعة من الطالب تحقيقها مبرهناً عما إذا كان قد حقق الاستفادة القصوى من فرص التعلم المتاحة. ولابد من الربط بينها وبين وصف البرنامج.

University of Wasit/ College Science Computer And technology Information	The institution Educational	.1
Section Science The computer	Section University/ The center	. 2
Programming An entity	Name of the rapporteur	.3
work hours My presence(Theoretical+ Practical)	Shapes Attendance available	. 4
Chapter Academic The first/The stage The second	Chapter/ year	.5
An hour 60	Number Hours Academic(total)	. 6
10/3/4 202	Date Preparation This Description	.7
Goals The decision		.8
Learn Basics Programming Objectivity Directed) Category (And the object.)	•	
Learn Basics Languages Programming used With UnderstoodOOP.	•	
Education The student The difference Between The object and The restriction.	•	
Learn the concept ContainmentEncapsulation .	•	
Programming Understood InheritanceInheritance .	•	
Programming Understood Multiple The shapesPolymorphism .	•	
Outputs The decision And ways Education And learning And evaluation:		.9
Objectives Knowledge:	- a	
. Learn the concept New In Programming 1.		
. Enable The student From 2 Knowledge Principles of Class		
Enable The student is from 3 Knowledge Principle Class		

. Enable The student From 4	
Knowledge BenefitsObject	
. Enable The student From 5	
Knowledge Principle Workinheritance	
. Enable The student From They understand 6De-	
Constrictor and Constrictor	
. Design Programs Within 7	
the concept.OOP	
. Iksaab The student Knowledge necessary To build Programs Good And 8	
Owning Knowledge necessary To connect Programs And Applications	
Some of them With Some Using Concepts	
Programming Entity.	
Objectives Marathi Private By decision:	- B
• Enable The student From Ixab Skills 1overwrite	
. Enable The student is from Ixab Skills 2overload	
. Enable The student Ixab Skills Work Within Team 3	
One.	
. Iksaab The student Skills Writing Programs Using 4	
Objects.	
. Iksaab The student Skills Analysis Programs And design Programs 5 Self Jobs Different.	

Ways Education And learning
. Meeting Lectures Scientific In Halls Academic And use the 1show) (Data For the
purpose of a statement Ideas Main for the topic And Connect side Theoretical By example The process In The laboratory.
. Guidance Students To Some Locations Electronic For 2
benefit From her.
. Cost The student Prepared Reports Brief For some 3
Topics.
. Cost The request With accomplishment 4 Some Programs.
. Discussion Scientific Inside The hall 5.
. Action Tests The periodical For the 6
request.
Ways Evaluation
. Implementation Duties Daily 1.
. Tests Daily And monthly And the final 2.
. Participation In Hall The lesson 3.
. Maintenance On Attendance 4.
Objectives Existentialism And valueC
• Development Ability The student On Thinking And 1
strengthen Accuracy And organization He has. Encouragement The student On Solution Duties Household With enthusiasm With 2
what He has someone Impact Big On The process Educational.
. Contribution Prepared Student Able to Writing 3
Programs Complete.
. Upload spirit Cooperation And work As a 4
member In Team.
. Take out Ideas Creativity I have Some The request is from During 5
Upload spirit Competition. Ways Education And learning
. Meeting Lectures 1 Discussion Inside The hall Academic 2.
. Storm Mental 3.
. Giving Examples And questions Excite 4 Thinking The student.
Ways Evaluation
. Participation Effective In Hall The lesson Evidence Commitment The 1
student And you carry it Responsibility.
. Commitment On time specified In Submission Duties 2 And research.
. It is considered Tests Now, The quarterly And the final About Commitment And collection 3 Cognitive And the skills
Skills Public And qualification movable) Skills Others related Capable - Dr
Employment And development Personal(.
. Skill Self-learning 1.
. Skills Practical The group 2.
. Skill Subtract Questions 3.
Development Capabilities And skills For Aksab The limit Required To benefit From him In Life The process For purposes Employment
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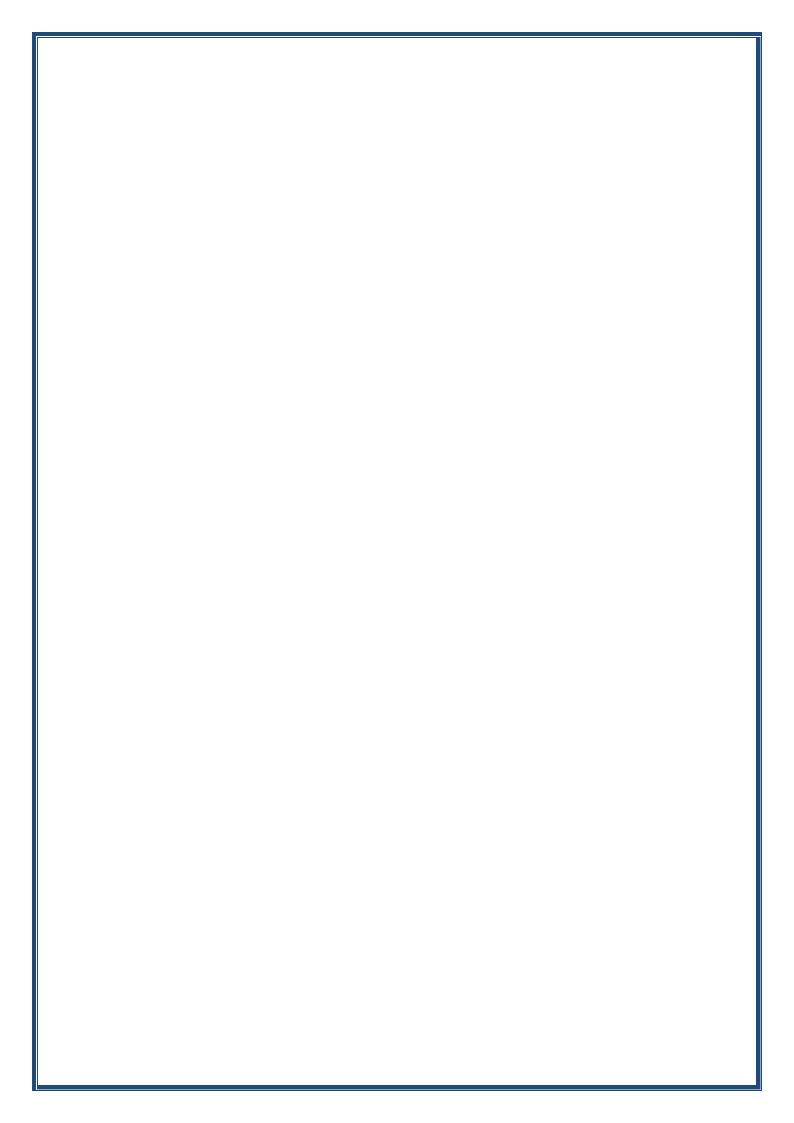


Structure The decision	n:				. 10
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	Hours	The week
Discussion/ Questions General	Theoretical + practical	Introduction About Style Programming	Introduction and definition of object- oriented programming and its characteristics Which Her distinction About Other types and methods of programming	4	The first
Discussion/ Questions General/ Real-time exam	Theoretical + practical	Introduction About Style Programming	Introduction and definition of object- oriented programming and its characteristics Which Her distinction About Other types and methods of programming The other	4	The second
Discussion/ Questions General/ Real-time exam	Theoretical + practical	Building Entities	Definition of how to build entities And its parts And What ?is it Its benefit	4	Third
Discussion/ Questions General	Theoretical + practical	Building Entities	Definition of how to build entities And its parts And What ?is it Its benefit	4	Fourth
Discussion/ Questions General/ Real-time exam	Theoretical + practical	Building Entities	Definition of how to build entities And its parts And What ?is it Its benefit	4	Fifth
Discussion/ Questions General	Theoretical + practical	Functions Private	Building Functions Private To conduct Specific operations Self Activate General	4	Sixth
Discussion/ Questions General/ Exam Annie	Theoretical + practical	Functions Private	Building Functions Private To conduct Specific operations Self Activate General	4	Seventh
Discussion/ Questions General	Theoretical + practical	Interference in Functions	Style Intervention In Functions How to work with each other and how to transfer data between them	4	Eighth

Discussion/ Questions General	Theoretical + practical	Interference in Functions	Style Intervention In Functions How to work with each other and how to transfer data between them	4	Ninth
Discussion/ Questions General	Theoretical + practical	Protection	Style Protection And Its benefits And ?What are its types The different ones	4	Tenth
Discussion/ Questions General/ Exam Annie	Theoretical + practical	Protection	Style Protection And Its benefits And ?What are its types The different ones	4	1st Ten
Discussion/ Questions General	Theoretical + practical	Heredity	Style Heredity And Inheritance The pages between Fathers And Children	4	The second Ten
Discussion/ Questions General/ Exam Annie	Theoretical + practical	Heredity	Style Heredity And Inheritance The pages between Fathers And Children	4	Third Ten
Discussion/ Questions General	Theoretical + practical	Heredity	Style Heredity And Inheritance The pages between Fathers And Children	4	Fourt h Ten
Discussion/ Questions General/ Real-time exam	Theoretical + practical	Heredity	Pattern of inheritance and inheritance of traits Between Fathers And Children	4	Fiftee nth

Structure Infrastructure		
Object-Oriented Programming in C++, Fourth Edition	Prescribed books required	.1
Thinking in C++, Volume 2: Practical Programming	References Main(Sources)	. 2
	Books And references Which Recommended With it), Magazines Scientific ,Reports(- a
 Locations Scientific Sober www.studytonight.com/cpp/cpp-and-oops-concepts 	,References electronic Locations The Internet	- B

• Addition or Delete items For the curricula Within Development The result In Every decision And in proportion Do not exceed.% 10 • Keeping up Development Obtained by means And the methods Miscellaneous For the decision Addition All What He New And useful For the student To acquire Skills New And keep up Development The



Model Description The decision

Description The decision: Structures Data (1) Structure) Data (

يوفر وصف المقرر هذا إيجازاً مقتضياً لأهم خصائص المقرر ومخرجات التعلم المتوقعة من الطالب تحقيقها مبرهناً عما إذا كان قد حقق الاستفادة القصوى من فرص التعلم المتاحة. ولابد من الربط بينها وبين وصف البرنامج.

	Τ	1	
of Wasit University/ College Science The computer And	The		.1
technology Information	institution		
	Educational		
Section Science The computer	Section	on	. 2
	University/ Th	ıe	
	cent	er	
Structures Data	Name of		.3
	the		
	rapporte		
	ur		
work hours My presence(Theoretical+ Practical)	Shap	es	.4
	Attendan	ce	
	availab	le	
Chapter Academic The first/The stage The second	Chapter/		.5
	year		
An hour 60	Number Hours		6
An nour oo	Academic		.6
	(total)		
0 1/3/4 202	Date Preparati		.7
	This Descripti	on	
Goals The decision			.8
• They understand Types Graphic The possible Use			
it When Dealing With The accountant			
• They understand Structures Graphic Which From The possible	U se		
it For a purpose Facilitate Process Dealing With The prob	olem		
• Show Structures Graphic In detail And clarification Method Wo	ork All One		
From her And how Addition And	l delete In it.		
• Show Algorithms Search And the arrangement			
Wow Programmed in the laboratory.			
• Education The student How Programming Algorithms Private V	Vith structures		
Graphic In laboratories Scientific Usin	g LanguageC++		
Outputs The decision And ways			.9
Education And learning And			
evaluation:			
Objectives Knowledge:		- a	
. Recognition On 1			
Structures Graphic And he			
understood it			
. Recognition On Algorithms In Field 2	.		
Structures Data And he understood it.			
. Recognition On Applications Useful 3			
For structures Data And he understood it			
. Recognition On Types Operations possible On 4			
All Structure My statement And he understood it			

. Recognition On Algorithms Search 5	•
and sort And he understood it.	
Objectives Marathi Private By decision:	- B
Development Skill The student In Writing Programs And Choose The structure appropriate To solve Problems Software.	
Iksaab The student Skill necessary To choose Algorithm appropriate To 2 work With The issue required.	
Development Skill The student In Development Algorithmia 3 T To work With Cases different.	
. Iksaab The student Skill Writing Programs 4 Efficiency To implement Algorithms.	
Ways Education And learning	
. Meeting Lectures Scientific In Halls Academic And use the 1show) (Data For	
the purpose of a statement Ideas Main for the topic.	
. Use Device The computer In 2 implementation Programs.	
. Guidance Students To Some Locations 3 Electronic For benefit From her.	
. Cost The student By implementing A group From 4 Programs In Laboratories The process.	
. Cost The student Prepared Reports Brief For some Topics And 5 Implementation Duties Household.	
. Episodes Discussion To be treated The problems 6 that He faces it The student By decision.	

Ways Evaluation
. Implementation Duties Daily 1.
. Tests Daily And monthly And the 2
final.
Participation In Hall The 3 lesson.
. Maintenance On Attendance 4.
Objectives Existentialism And valueC
Encouragement Students On Benefit From The decision From During Faith
Importantly The decision In The process Educational And in Field
Specialization In a way General.
. Enhancement Cooperation Between Students 2
From During Implementation Duties The process.
. Development Energies The idea And creativity I have The 3
request From During Implement them To different Duties.
. Encouragement The request And 4
raise spirit Competition Among them. Ways Education And learning
. Giving Activities group Importance From During Customize 1
Degrees On Activities group
. administration The lecture On A form that works 2
The student He feels Importantly Time.
. Enable The student From Process Connecting 3 Between side Theoretical And practical.
. Encouragement The student On Submission Work Creativity In 4
Specialization Complies with standards Quality In Service The community.
Ways Evaluation
. Participation Effective In Hall The lesson Evidence 1
Commitment The student And you carry it Responsibility.
. Commitment On time specified In 2 Submission Duties And research.
. It is considered Tests Now, The quarterly And the final About 3
Commitment And collection Cognitive And the skills.
Skills Public And qualification movable) Skills Others related Capable - D
Employment And development Personal(.
. Development Ability The student On 1 Dealing With Means Technology.
Development Ability The student On 2
Dealing With Internet.
. Development Ability The student is on Learn Knock And 3
methods Development Personal Why? After The decision. Development Ability The student On 4
Dialogue And discussion.
Development spirit Creativity And perseverance And 5
search About What's new in Field His work.
Structure The decision:

Structure The decision:					
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	Hours	The week

Questions General And discussion	Theoretical + practical	Concepts General	Definition Structures Graphic And its types And types Data	4	The first
Questions General And discussion or Exam I am	Theoretical + practical	Algorithms	They understand Al- Khawaramiyya And a way Account Degree Complicate it	4	The second
Questions General And discussion	Theoretical + practical	Understood Stack	Definition Stack And a way Representation and methods of adding and deleting	4	Third
Exam I am	Theoretical + practical	The concept of expressions Accounting	Identify the types of arithmetic expressions And a way Transfer Between her	4	Fourth
Questions General And discussion or Exam I am	Theoretical + practical	Applications Stack	Use Stack With Expressions Accounting	4	Fifth
Discussion	Theoretical + practical	Understood Queue	inition Queue And a way Acting process and methods	4	Sixth
Questions General	Theoretical + practical	Operations on Queue	Operations On Queue Addition And delete F	4	Seventh

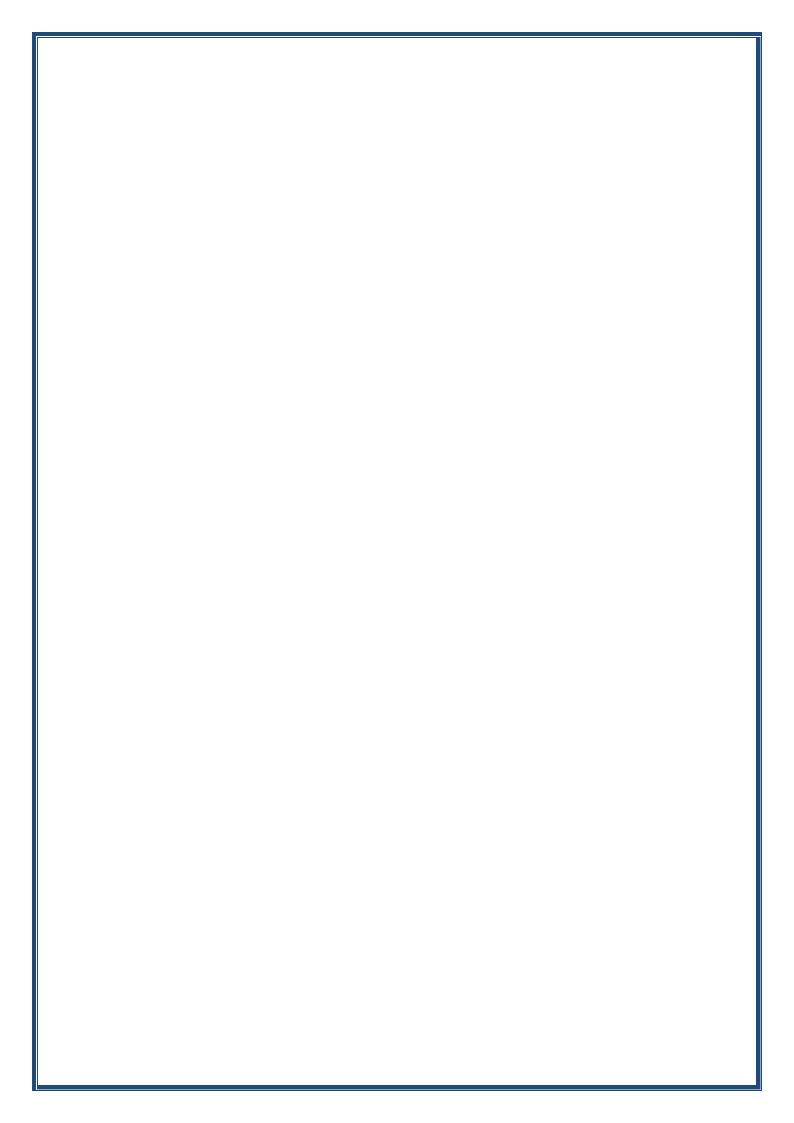
Structure The decis	ion:				. 10
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	Hours	The week
Duties group	Theoretical + practical	Understood linked list	Define it And its types	4	Eighth
Questions General	Theoretical + practical	List Single bundle	erations On List Single bundle	4	Ninth
Exam Monthly	Theoretical + practical	List Al-Marbouta Double	Operations on List Al- Marbouta Double	4	Tenth
Questions General	Theoretical + practical	List Al-Marbouta The circle	Operations on List Al- Marbouta The circle	4	Eleventh
Discussion	Theoretical + practical	Understood Arrangement	Definition Arrangement And its types	4	Twelfth
Exam I am	Theoretical + practical	Arrangement Bubble And arrange Addition	Explain a method Arrangement Bubble And addition	4	Thirteenth
Duties group	Theoretical + practical	The concept of research	Definition Search And remember Its types	4	Fourth Ten
Discussion	Theoretical + practical	Search Serial And search The binary	Recognition On Algorithm Search Serial And search The binary	4	Fifteenth

Structure Infrastructure			.11
• Data structure and Algorithmic Thinking with Python, 2016	Prescribed books required	.1	
Data structures and Algorithms in python, 2013	References Main(Sources)	. 2	
Data structures and algorithms Made Easy, 2017	Books And references Which Recommended With it), Magazines Scientific ,Reports(- a	
Locations Scientific Sober	,References electronic Locations The Internet	- B	

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Plan Development The decision Academic Addition or Delete Vocabulary For the curricula Within Development Scientific obtained in Every decision And in proportion No Exceeds 10%

- Keeping up Development The result In ways and means Miscellaneous For the decision
- Addition All What He New It is useful for the student To acquire skills New And keep up Development The result Languages Programming And work On Languages And publications Modern With what It fits With Importance The decision.



Model Description The decision

Description of the course: Accounting) (Arithmetic

يوفر وصف المقرر هذا إيجازاً مقتضياً لأهم خصائص المقرر ومخرجات التعلم المتوقعة من الطالب تحقيقها مبرهناً عما إذا كان قد حقق الاستفادة القصوى من فرص التعلم المتاحة. ولابد من الربط بينها وبين وصف البرنامج.

University of Wesit/ College Science The computer And	The		1
University of Wasit/ College Science The computer And technology Information	institution		. 1
technology information	Educational		
Section Science The computer	Sect	ion	. 2
Section Science The computer	University/ T		• 4
	cen		
Accounting	Name of the ra		.3
5			
Attendance time(theoretical)	Shaj		. 4
	Attendar		
	availa	oie	_
Chapter Academic The first/The stage The second	Chapter/		.5
	year		
An hour 30		er Hours	. 6
	Academi		_
0 1/3/4 202	Date Preparat		.7
	This Descript	tion	
Goals The decision			. 8
• The goal From This The decision Academic He Definition The red			
field Basic For information The computer Which It	t is possible The	request From	
Focus On Study Models Sports. Allow This Models Spo			
Solution Problems different In The process of langu		on. It	
allows students to become familiar with mathematic			
complexity, as they are Processing mathematical da			
Evidence And it is done Use Expressions Accounting			
distinguish Patterns To represent language, Also It	is possible For t	he	
student	A 7	• • • • • •	
Knowledge Operations different Which Speak On L		give it to him	
Capacity On Thinking The logical one In Building	Aigoriums.		.9
Outputs The decision And ways			1.9
Education And learning And			
evaluation:		_	-
Objectives Knowledge:		- a	_
. Clarification Concepts Basic In Theory Accounting From 1			
During A group From Tools.			_
. Acquisition Skills In 2			
Processing The problem.		•	
. Acquisition Skills Basic As an 3			
introduction In Building Languages.			
Acquisition Concepts Theory To work With 4) Turing Gram NFA's	mars, stack's, s, DFA's, RE's, (Machines		
Objectives Marathi Private By decision:		- B	
FA's, NFA's, Grammars, Languages modeling, Small) Des		ty .1	
.(Compi	iers dasics		

According to Rules Certain. . Writing Reports Scientific 3. . Knowledge Comparison Between 4languages) Formal and . (Natural **Ways Education And learning** . Meeting Lectures Scientific In Halls Academic And use the 1show) (Data For a purpose **Explanation Vocabulary** Curricula The equipment for the topic. . Guidance Students To Some Locations Electronic For benefit From her. . Cost The student Prepared Reports on Some Topics And analysis Organization Different. . Episodes Discussion To be treated The problems that He 4 faces it The student By decision. **Ways Evaluation** . Implementation Duties Daily . Implementation Tests Electronic For the 2 request.

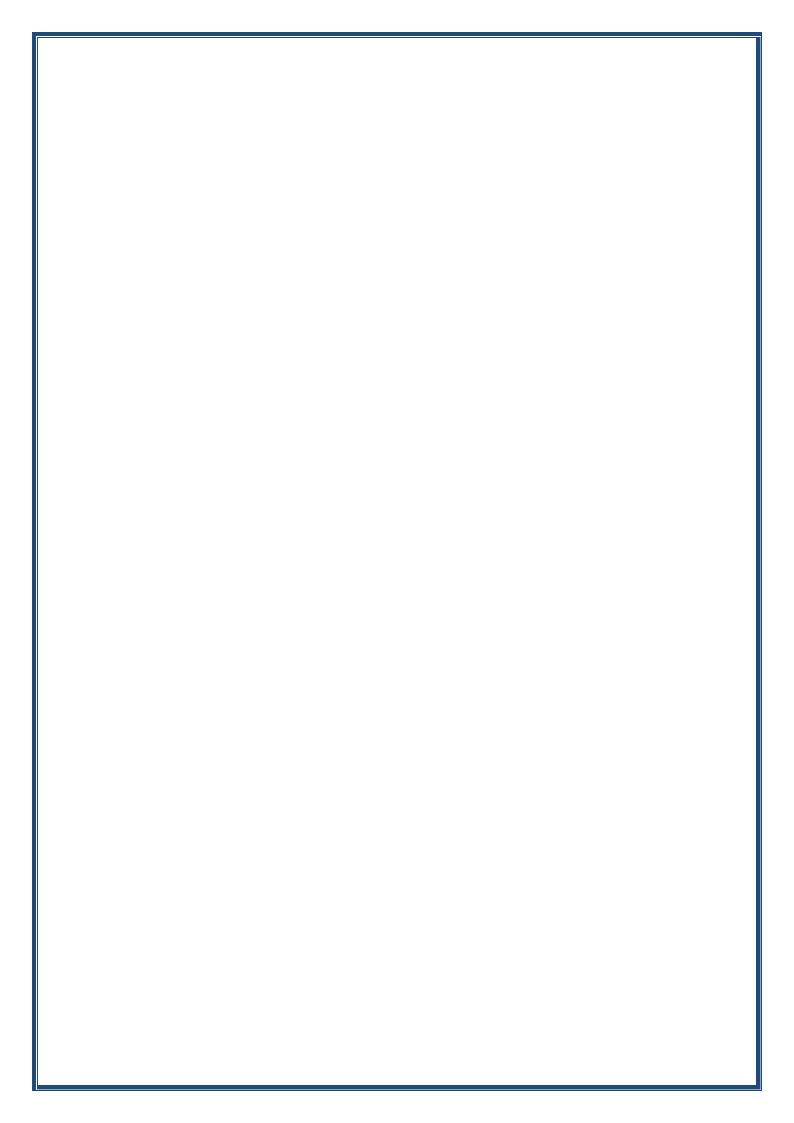
. Tests Daily And monthly And the final 3. Objectives Existentialism And value. **-C Encouragement The request On Benefit From The decision From During Faith Importantly** 1 The decision In The process Educational And in Field Specialization. **Enhancement Principle Cooperation Between The request From During Involve them** In total Work For a purpose Implementation Duties required. **Development Energies The idea And creativity I have The request From During Cost** All One From them For a purpose Achievement Part From The system. . Encouragement The request And raise spirit 4 Competition Among them. **Ways Education And learning** . Giving Activities group Importance From During Customize Degrees Specific For activities And work The group. . administration The lecture On A form that works The student He feels Importantly Time. . Enable The student is on Connecting Between Topics previous And the following Be Process Building The system Represent case One. . Encouragement The student On Submission Ideas In Field Specialization Complies with standards Quality In Service The community. . Use Means Clarification Important In The lecture For ease Receipt Article And increase **Understanding And connectivity Between Topics. Ways Evaluation** . Commitment In attendance For a hall The lesson And finish Business The taxpayer With it **Duties and reports (Within Timings that Done Select it Previously.** Action Tests Electronic To know Level General For the request In addition To Discussion And Participation In Hall The lesson. Skills Public And qualification movable) Skills Others related Capable - Dr **Employment And development Personal(. Development Ability The student On Dealing With Means** Technology Modern. . Development Ability The student On Dealing With Internet. . Development Ability The student is on Learn Knock And methods Development Personal Why? After The decision. . Development Ability The student On Dialogue 4 And discussion. . Development spirit Creativity And perseverance For the student And search About New In Field His work. . Development Estimate Work And carry Responsibility And commitment. . Development Respect Time And time In Achievement And implement Business.

Structure The decision:					. 10
Method Evaluation	Metho d Educa tion	Name Unit/or Topic	Outputs Learning required	Hours	The week
Questions General	Look	Set, string, alphabets,	Introduction	2	The first
		1011-0010-00	***************************************		

Look	Finite state automata	Introduction to FA's	2	The second
Look	Types of NFAs, DFAs and equivalence between NFAs and DFAs, FAs with epsilon move	Introduction to Fas	2	Third
Look	Regular Expressions	Introduction to Regular Expressions	2	Fourth
Look	Pumping lemma on regular languages, closure properties of regular languages	Introduction to Regular Expressions	2	Fifth
	Look Look	Look Types of NFAs, DFAs and equivalence between NFAs and DFAs, FAs with epsilon move Look Regular Expressions Pumping lemma on regular languages, closure properties of regular	Look Types of NFAs, DFAs and equivalence between NFAs and DFAs, FAs with epsilon move Look Regular Expressions Pumping lemma on regular languages, closure properties of regular FA's Introduction to Regular Expressions Introduction to Regular Expressions	Look Types of NFAs, DFAs and equivalence between NFAs and DFAs, FAs with epsilon move Look Regular Expressions Pumping lemma on regular languages, closure properties of regular FA's Introduction to Fas Expressions Introduction to Regular Expressions 2 Regular Expressions Regular Expressions 2

Structure The dec	ision:				. 10
Method Evaluation	Metho d Educa tion	Name Unit/or Topic	Outputs Learning required	Hours	The week
Questions General And Discussion	Look	Finite State Automata with output (Mealy and Moore) Machine	F.A with output	2	Sixth
Questions General	Look	Equivalence between Moore and Mealy Machine	F.A with output	2	Seventh
Duties group	Look	Klein's Theorem	Represent REs, FAs, TGs	2	Eighth
Questions General	Look	Context Free Grammar and Languages	Introduction to CFG's	2	Ninth
Exam Monthly	Look	Context Free Grammar without empty string	Introduction to CFG's	2	Tenth
Questions General	Look	Derivation Tree (LMD,RMD), Simplification of CFGs	CFG's	2	Elev enth
cussion And Daily exam	Look	Chomsky and Greibach normal form	CFG's	2	Twe lfth
Questions General	Look	The ambiguous CFGs	CFG's	2	Third Ten
Duties group	Look	Pushdown automata and CFL, closure properties of CFL(union, concatenation, kleen closure)	CFL's	2	Fou rtee nth
Discussion	Look	Turing Machine	TM's	2	Fifth Ten

Structure Infrastructure			11
 Papadimitriou, Elements of the Theory of Computation, Prentice-Hall, 1998. John E. hopcroft, Rajeev Motwani, Jeffrey D. Ullman, "Introduction to Automata Theory, Languages, and Computation", Second Edition, Prentice- hall, 2001. Peter Dehning, Jack B. Dennis, "Machines, Languages and Computation", Second Edition, Prentice-Hall, 1978. 	Prescribed books required	.1	
•	References Main(Sources)	. 2	
Libraries Electronic And books In Field Specialization	Books And references Which Recommended With it), Magazines Scientific	- a	
	,Reports(
Locations Scientific Sober	,References electronic Locations The Internet	- B	



Plan Development The decision Academic	. 12
• Addition Some vocabulary Curricula Within The approach The decision .	7
 Keeping up Development Obtained by means And the methods Miscellaneous For 	
the decision.	
 Addition All What He New And useful For the student To acquire skills New Use up-to-date sources For development Their capabilities. 	
up-to-date sources For development Their capabilities.	

Description of the course: Knock Numerical Methods) (Numerical

	T	
of Wasit University/ College Science The computer And	The	.1
technology Information	institution	
	Educational	
Section Science The computer	Section	. 2
	University/ The	
	center	
Knock Numerical	Name of	.3
	the	
	rapporte	
	ur	
work hours My presence(Theoretical+ Practical)	Shapes	. 4
	Attendance	
	available	
Chapter Academic The first/The stage The second	Chapter/	.5
	year	
An hour 60	Number Hours	.6
	Academic	
0.4/2// 202	(total)	
0 1/3/4 202	Date Preparation	.7
	This Description	0
Goals The decision		.8
• It is used Analysis Numerical In Solve equations Sports Which It'		
it or It is required Time Long In		
• Providing Time And the effort In particular In Equities Which I Big From Yes Access To The result	_	
• Capacity On Collection And classification Data Quantity And	V 01 1110 001W1011	
numerical Schedule it And represent it And its interpretation		
• Generalization Attics Sports Numerical On		
Phrases Symbolism.		
• The ability to Building		
Models Sports.		
• Use Methods Thinking different And ability On Governance		
On Health And reasonable The solution.		
Outputs The decision And ways		.9
Education And learning And		
evaluation:		
Objectives Knowledge:	- a	
•	u	
. Definition With concepts Roads Numerical different And 1 the teams Between her And characteristics All One From her.		
. Application Concepts Roads Numerical 2.		
. Realization Importance Concepts 3		
Roads Numerical In Life The process.		
. Development Concepts 4		
Roads Numerical For the		

student.	
. Try Access To Concepts 5	
Numerical New.	
Objectives Marathi Private By decision:	- B
· Iksaab The student Skill And ability On Solution Issues Sports The 1	
complex Private By share Academic.	
. Iksaab The student Skill necessary To build 2	
Models Sports.	
?Development Skill The student On Thinking The athlete Al-Salim What	3
Face it. Reflects Positively On Solve problems Software Whic	ħ
Ways Education And learning	
. Meeting Lectures Scientific In Halls Academic And use the 1show) (Data For	
the purpose of a statement Ideas	
Main for the topic And Connect side Theoretical By example	
The process In The laboratory.	
. Guidance Students To Some Locations 2	
Electronic For benefit From her.	
Cost The student Prepared Reports Brief For 3	
some Topics.	
Discussion Scientific Inside 4	
The hall.	
Vays Evaluation	
. Implementation Duties Daily 1.	

. Tests Daily And monthly And the 2 final.	
. Participation In Hall The 3	
lesson.	
Objectives Existentialism And valueC	
• Development Ability The student On Thinking 1	
And strengthen Accuracy And organization He has.	
. Conviction Necessarily Take The 2	
decision Academic.	
. Desire In They understand 3	
The decision Academic.	
. Capability On reading The 4 decision Academic.	
. Capability On Solution Duties Home 5	
With enthusiasm.	
Ways Education And learning	
. Meeting Lectures 1.	
. Discussion Inside The hall 2	
Academic.	
. Storm Mental 3.	
. Giving Examples And questions 4	
Excite Thinking The student.	
Ways Evaluation	
. Participation Effective In Hall The lesson Evidence 1	
Commitment The student And you carry it Responsibility.	
. Commitment On time specified In 2	
Submission Duties And research.	
. It is considered Tests Now, The quarterly And the final About 3	
Commitment And collection Cognitive And the skills.)
Skills Public And qualification movable) Skills Others related Capable - Dr Employment And development Personal(.	r
. Skills Learning Self 1.	
. Skills Work In Team 2.	_
. Skills Contact 3 Skills Writing Report 4.	
. Skins writing Kepurt 4.	

Structure The decision:					. 10
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	Hours	The week
Discussion/ Questions General	Theoretical + practical	Introduction to Numerical Methods	Learn the meaning of numerical analysis and knowledge With models Mathematics and ways to solve it	2	The first
Discussion/ Questions General/ Exam Annie	Theoretical + practical	Non-Linear Equation	Learn Solution Equations Others Plan In a way Analysis Numerical	2	The second

	1	0 (1)	G 3 14 FF3		
Discussion/	Theoretical	System of linear	earn Solution The	2	Third
Questions	+ practical	Equations	system Linear By	-	1 1111 4
General/	praetical		means of		
Real-time			numerical		
exam			analysis		
Discussion/	Theoretical	Interpolation	ognition On The	2	Fourth
Questions General		possibility	4	1 our th	
Questions Ocherai	+ practicar		And matching		
			the curves		
Discussion/	Theoretical	Integration	Recognition On Solution	2	Fifth
Questions General/	+ practical	integration	Integrations	4	I IIII
Exam Annie	+ practical		In a way Analysis		
			Numerical		
Discussion/	Theoretical	Differential	Learning on Ijad	2	Sixth
Questions General	+ practical		Derivatives		
Discussion/	Theoretical	Ordinary Differentia	Learn Solution	2	Seventh
Questions	+ practical	Equations	Equations	<i>L</i>	Seventin
General/	practical		Differentiation by		
Real-time			some methods of		
exam			analysis Numerical		
		Least Square Curve	Learn How		
Discussion/	Theoretical	Fitting: Linear	Compatible	2	Eighth
Questions General	+ practical	Fitting	Functions From		
			a set of points		
		Introduction to	-		
Discussion/	Theoretical	Numerical Methods	Learn the meaning of numerical	2	Ninth
Questions General	+ practical	Numerical Methods	0		
			analysis and		
			knowledge With		
			models Sports		

Structure The decision:					. 10
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	Hours	The week
Discussion/ Questions General	Theoretical + practical	Non-Linear Equation	And knock Solve it Learn Solution Equations Others Plan In a way Analysis Numerical	2	Tenth
Discussion/ Questions General/ Real-time exam	Theoretical + practical	System of linear Equations	earn Solution The system Linear By means of numerical analysis	2	Elev enth
Discussion/ Questions General	Theoretical + practical	Interpolation	ognition On The possibility And matching the curves	2	Twe lfth
Discussion/ Questions General/ Exam Annie	Theoretical + practical	Integration	Recognition On Solution Integrations In a way Analysis Numerical	2	Third Ten
Discussion/ Questions General	Theoretical + practical	Differential	Learning on Ijad Derivatives	2	Fourt h Ten
Discussion/ Questions General/ Real-time exam	Theoretical + practical	Ordinary Differentia Equations	Learn Solution Equations Differentiation by some methods of analysis Numerical	2	Fiftee nth

Structure Infrastructure			11
 K, atkinson, Elementary numeral analysis, john Wiley, 1985. 	Prescribed books required	.1	
	References Main(Sources)	. 2	
	Books And references Which Recommended	- a	
	With it), Magazines Scientific ,Reports(
Locations Scientific Sober	,References electronic Locations The Internet	- B	

- . 12
- Addition or Delete Vocabulary For the curricula Within Development The result In Every decision And in proportion Do not exceed.% 10
- Keeping up Development The result In ways and means Miscellaneous For the decision Addition Everything He New It is useful for the student To acquire Skills New And keep up Development The

result.

Model Description The decision Description of the course: of rules Data Principles (Database)

University of Wasit/ College Science The computer And technology		
Information	institution	
	Educational	
Section Science The computer	Section	. 2
	University/ The	
	center	
Rules Data	Name of	.3
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work hours My presenceMy view And practical(Shapes	. 4
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Chapter Academic The first/The stage The second	Chapter/	.5
	year	
An hour 60	Number Hours	. 6
	Academic(total)	
0 1/3/4 202	2 Date Preparation	.7
	This Description	
Goals The decision		. 8
They understand Principles Rules	•	
Data And Knock Design it.		
They understand What She	•	
is Organization		
administration A rule Data.		
I know him The reasons Which Led To	•	
Assessment Dalla Data Distailation		

Know what She is Architectures available And The user To build Systems Rules Data Distributor.	•	
Outputs The decision And ways		. 9
Education And learning And		
evaluation:		
Objectives Knowledge:	- a	
. Definition According to the principles of Basics Rules 1 Data Distributor And Its systems And Its types.		
. Application Concepts Rules 2 Data Distributor.		
. Realization Importance 3	•	-
Organization Rules Data Distributor		
. Select The difference Between Systems Rules Data 4 And Systems Rules Data Distributor.		
. Capability On Description Systems 5 Rules Data Distributor.		
Objectives Marathi Private	- B	Ī
By decision:		
. Capability On Meeting Lecturer Related Regularly Rules 1 Distributed data.		
. Capability On design System Database 2 Distributed.		
. Capability On Learning And Training On Different Systems Rules Data And Distributor.	Traditional 3	
Capability On administration Dialogues And Discussions related By organiza Databases And rule		=
Distributor.		
Ways Education And learning		
. Meeting Lectures Scientific In Halls Academic And use the 1show) purpose of a st	(Data For the atement Ideas	
Main for the topic.		
. Use Device The computer In implementation 2 Programs.		
. Guidance Students To Some Locations Electronic For 3 benefit From her.		-
. Cost The student By implementing A group From Programs In 4 Laboratories The process.		
. Cost The student Prepared Reports Brief For some Topics And Implement Household.	ation Duties 5	5
. Episodes Discussion To be treated The problems that He 6 faces it The student By decision.		
Ways Evaluation		
. Implementation Duties Daily 1.		
· · · · · · · · · · · · · · · · · · ·		

. Tests Daily And monthly And the final . Participation In Hall The lesson . Maintenance On Attendance Objectives Existentialism And value. . Encouragement Students On Benefit From decided by During Faith Importantly The 1 decision In The process Educational And in Field Specialization In a way General. **Enhancement Cooperation Between Students From During Implementation Duties The process.** . Development Energies The idea And creativity I have The request From During Implement them To different Duties. . Encouragement The request And raise spirit 4 Competition Among them. Ways Education And learning . Giving Activities group Importance From During Customize Degrees On Activities group . administration The lecture On A form that works The student He feels Importantly Time. . Encouragement The student On Submission Work Creativity In Specialization Complies with standards Quality In Service The community. Ways Evaluation . Participation Effective In Hall The lesson Evidence Commitment The student And you carry it Responsibility. . Commitment On time specified In Submission Duties 2 And research. . It is considered Tests Now, The quarterly And the final About Commitment And collection Cognitive And the skills. Skills Public And qualification movable) Skills Others related Capable - Dr **Employment And development Personal(.** . Skill administration Data And Knowledge And **Technology Information.** . Development Ability The student is on Learn Knock And methods Development 2 Personal Why? After The decision. . Development Ability The student On Dialogue 3

Structure The decision:					. 10
Method Evaluation	Meth od Educ ation	Name Unit/or Topic	Outputs Learning required	Hours	The week
[Assessment]		Approaches to and evolution of database systems	Explain the characteristics that distinguish the database approach from the approach of programming with data. data files. [Understanding]	8	The first and seco nd

About What's new in Field His work.

And discussion.

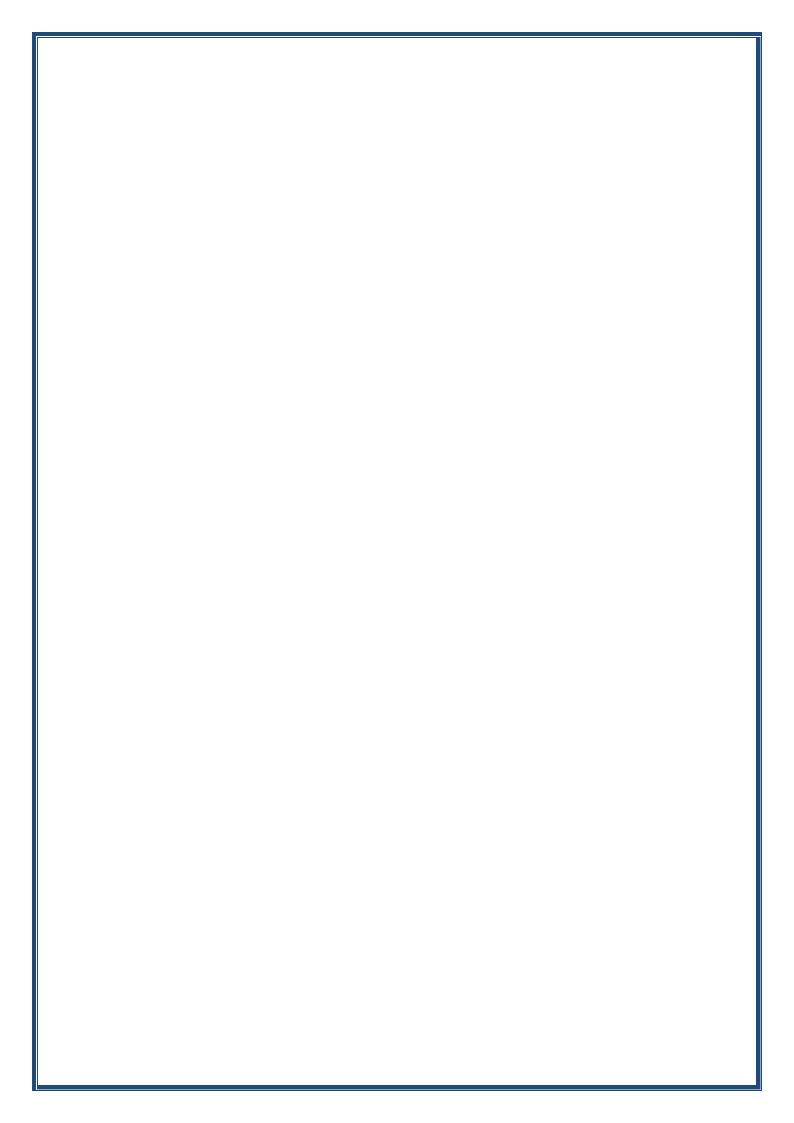
. Development spirit Creativity And perseverance And search

[Familiarity]	Components of database systems	Diagram the components of a database system and give examples of their use. [Applying]	8	The third and fourt h
[Assessment]	Database architecture and data independence	Explain the concept of data independence and its importance in a database system. [Understanding]	8	The fifth and sixth
[Familiarity]	Design of core DBMS functions (eg, query mechanisms, transaction	Formulate queries in SQL or a similar query	14	Sev enth Eig hth

Structure The de	Structure The decision:				. 10
Method Evaluation	Meth od Educ ation	Name Unit/or Topic	Outputs Learning required	Hours	The week
		management, buffer management, access methods)	language to elicit information from a database. [Creating].		And the ninth and tenth
[Assessment]		Use of a declarative query language		8	The eleve nth and The secon d Ten
Familiarity]		Systems supporting structured and/or stream content	Investigate vulnerabilities and failure scenarios in database systems. [Applying]	8	thirt eent h four teen th

Structure Infrastructure		
 Database system concept, 5\E, Abraham silberschatz and Merry F. Koth, 2006 	Prescribed books required	.1
Database Systems: The Complete Book ey Ullman, Molina, Jeffr-Book by Hector García and Jennifer Widom	References Vigini Sources	. 2
Fundamentals of Database Systems Book by Ramez Elmasri	Books And references Which Recommended With it), Magazines Scientific ,Reports(- a
Locations Scientific Sober	,References electronic Locations The Internet	- B

- 12
- Addition or Delete items For the curricula Within Development Scientific obtained in Every decision And in proportion No Exceeds 10%
- Keeping up Development Obtained by means And the methods Miscellaneous For the decision



Course description: Structures Data (2) Structures) (Data

يركز هذا المقرر الدراسي على خوارزميات الفرز والبحث ، والاستخدام الفعال للوقت والذاكرة ، والقوائم المرتبطة وهياكل البيانات الشجرية ، وجداول التجزئة ، والمكدس وقوائم الانتظار الهدف من هذا المقرر ان يتعلم الطالب كيفية بناء خوارزميات ذات كفاءة عالية من حيث الذاكرة والسرعة.

of Wasit University/ College Science The computer And	The	1
technology Information	institution Educational	
Section Science The computer	Section	2
Section Science The computer	University/ The	
	center	
Structures Data	Name of the rapporteur	3
work hours My presenceMy view And practical(Shapes	4
, , , , , , , , , , , , , , , , , , ,	Attendance	
	available	
Chapter Academic The second/The stage The second	Chapter/	5
	year	
An hour 60	Number Hours	6
	Academic(total)	_
0 1/3/4 202	Date Preparation	7
Coole The decides	This Description	8
Goals The decision		o
Introduction About a concept Rules		
And technologies Structures Data.		
Developing skills In Writing Algorithms Effective.		•
Outputs The decision And ways		9
Education And learning And		
evaluation:		
Objectives Knowledge:	- a	
. Knowledge With a substance Structures Data 1.		
. Knowledge How Account 2		
Efficiency Algorithms.		
Objectives Marathi Private By decision:	- B	
Knowledge How Choose Structures Data appropriate To solve Th	e 1	
problem In a way Effic		
. Writing Algorithms How 2		
efficient		
. Recognition On Algorithms In Field Structures Data And 3		
he understood it.		
Recognition On Applications Useful For structures Data 4		
And he understood it.		
Ways Education And learning		

. Meeting Lectures Scientific In Halls Academic And use the 1show) (Data For the purpose of a statement Ideas Main for the topic. . Guidance Students To Some Locations Electronic For 2 benefit From her. . Cost The student Prepared Reports Brief For some Topics and carry out duties Household . Episodes Discussion To be treated The problems that He 4 faces it The student By decision. **Ways Evaluation** . Implementation Duties Daily . Tests Daily And monthly And the final . Participation In Hall The lesson

. Maintenance On Attendance Objectives Existentialism And value. -C **Encouragement Students On Benefit From The decision From During Faith Importantly** The decision In The process Educational And in Field Specialization in a way General. **Enhancement Cooperation Between Students From During** 6 **Implementation Duties The process. Development Energies The idea And creativity I have The request From During Implement** them To different Duties. . Encouragement The request And raise spirit 8 Competition Among them. **Ways Education And learning** . Giving Activities group The importance of During Customize Degrees On Activities The 4 group. . administration The lecture On Shape It works The student 5 He feels Importantly Time. . Encouragement The student On Submission Work Creativity In Specialization Keep up Standards Quality In Service The community. **Ways Evaluation** . Commitment In attendance For a hall The lesson And finish Business The taxpayer With it **Duties and reports (Within Timings Specific.** . Discussion And participation Effective In Hall The lesson. . Method Interrogation And that About A way Show Questions Related With the material Scientific In The hall Academic. Skills Public And qualification movable) Skills Others related Capable - Dr

Employment And development Personal(.

6

decision.

. Skill Planning Scientific
. Skill Manufacture The

. Skill Development Humanity

Structure The	decision:				.10
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	The hour	The week
[Assessment]	Theoretical+ practical	Introduction	General concepts	2	The first
[Familiarity]	Theoretical+ practical	Array,queue, stack,link list	Add, delete elements to array, how to deal with stack and queue	6	The secon ,d third and fourt h
[Assessment]	Theoretical+ practical	Linear search	Understanding Linear search	4	Fifth And the sixth
[Familiarity]	Theoretical+ practical	Binary search	Understanding Binary search	2	Seventh

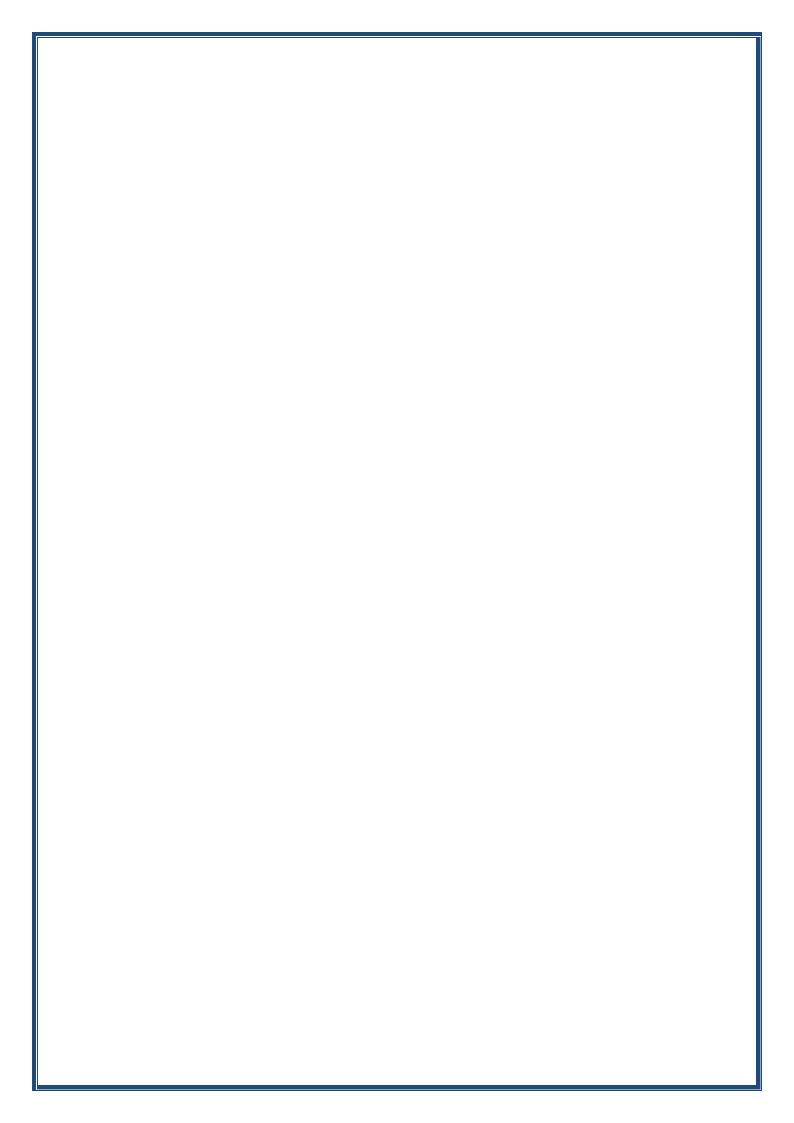
[Assessment]	Theoretical+ practical	Interpolation search	Understanding Interpolation search	4	Eighth And the
[Assessment]		Hash table. table	Understanding Hash table.		ninth Tenth
[]	Theoretical+ practical		table	4	And the
	practical				first Ten
[Familiarity]	Theoretical+ practical	Bubble sort	Understanding Bubble sort	4	the twelf th and the thir d
[Familiarity]	Theoretical+ practical	Insertion sort	Understanding Insertion sort	2	Fourt h Ten

Structure Infrastructure			11,
•	Prescribed books required	.1	
1-Data structure and algorithm with object. object - oriented design patterns in c++ by: Bruno R. Preiss ,BASC.,MASC.PH.D.,P.ENG.Associate Professor,Department 2- Data Structure and algorithm analysis in C, By:Mark Allen Weiss.	References Main(Sources)	.2	
	Books And references Which Recommended With it), Magazines Scientific ,Reports(- a	
Locations Electronic Specialized	,References electronic Locations The Internet	- B	

12,

- Addition or Delete items For the curricula Within Development The result In Every decision And in proportion Do not exceed.% 10
- Keeping up Development Achieved through methods and means Miscellaneous For the decision Addition All What He New And useful For the student To acquire Skills New And keep up Development The

result.



Description of the course: Theory Information theory) (Information

University of Wasit/ College Science The computer And	The	.1
technology Information	institution	
	Educational	
Section Science The computer	Section	.2
	University/ The	
	center	
Theory Information	Name of the rapporteur	.3
Attendance time(theoretical)	Shapes	.4
	Attendance	
	available	
Chapter Academic The first/The stage The second	Chapter/	.5
	year	
An hour 30	Number Hours	. 6
	Academic(total)	
0 1/3/4 202	Date Preparation	.7
	This Description	
Goals The decision		.8
Aims Curriculum Article His view Information To Definition	The •	
student Basics And principles Theory Informa	tion.	
They understand Basic elements For a system Communications.	Addition •	
Therefore Enter Concepts The important thing In Theory Infor	mation For	
example Measure		
Information.		
Explanation Technologies Encryption Source And press Data And		
They understand Technologies Control With mistakes De Encryp	_	
And I know him Technologies Private By discovery And	ouon.	
correct The error Using Theory Correction.	•	
Outputs The decision And ways		.9
Education And learning And		•
evaluation:		
Objectives Knowledge:	- a	
. He learns The student During Chapter Academic Basics Article	1	
His view Informati	on.	
He learns Student Select Amount Information For each Symbol A		
the source Separate W	ithout Memory And design	
Codes Source Without Memory To the source Separate Wi Efficiency Transfer Information	thout Memory To improve	
. He learns The student Select Technology Appropriate To press D		
a case Certain.		
He learns The student They understand And application Principle	s Theory Information 4	
Theory Correction. And ability On discovery And		
Objectives Marathi Private	- B	
By decision:	- 10	
DV UCISION.		

. Familiarity With relationships Sports Private With knowledge Statistics. . Familiarity With concepts And principles Process Convert The signal Analogue To Digital. . Familiarity With concepts Basic For an operation **Discovery And correct The error.** Ways Education And learning . Meeting Lectures Scientific In Halls Academic And use the 1show) (Data For a purpose **Statement Ideas** Main for the topic. . Collection Data And preparation Reports. . Guidance Students To Some Locations Electronic For 3 benefit From her. . Cost The request Solution A group From Questions Statistics About A way Discussions 4 between The request . Cost The student Prepared Reports Brief For some Topics And Implementation Duties 5 Household. . Episodes Discussion To be treated Problems Which He faces 6 it The student By decision. **Ways Evaluation**

- . Implementation Duties Daily 1.
 - . Tests Daily And monthly And the final 2.

C- Objectives Existentialism

And value.

. Encouraging students On Benefiting from the decision Through belief in the importance of 1 the decision In The educational process And in Field

Specialization In a way General.

- . Enhancement Cooperation Between Students From 2 During Implementation Duties The process.
- . Development Energies The idea And creativity I have The request From During Implement them To different Duties.
- . Encouragement The request And raise spirit 4
 Competition Among them.

Ways Education And learning

- . Giving Activities group Importance From During Customize Degrees On Activities The 1 group.
- . administration Lecture on A form that works The student 2 He feels Importantly Time.
- . Enable The student From Process Connecting Between side 3 Theoretical And practical.
- . Encouragement The student On Submission Work Creativity In Specialization Keep 4 up Standards Quality In Service The community.

Ways Evaluation

- . Participation Effective In Hall The lesson Evidence Commitment 4
 The student And you carry it Responsibility.
- . Commitment On time specified In Submission Duties 5 And research.
- . It is considered Tests Now , The quarterly And the final About Commitment And collection Cognitive And the skills.

Dr- Skills Public And qualification movable Employment And development Personal(.

) Skills Others related Capable

- . Development Ability The student On Dealing With 6 Means Technology.
 - . Development Ability The student On Dealing 7 With Internet.
 - . Development Ability The student is on Learn Knock And methods 8
 Development Personal Why? After The decision.
- . Development Ability The student On Dialogue 9

And discussion.

. Development spirit Creativity And perseverance And search 10 About New In Field His work.

Structure The	decision:				. 10
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	Hou rs	The week
Exams Daily+ exams Monthly	PDF Lecture s power point	Fundamentals and principles of information theory Review of probability and random variables.	He learns Founded And principles Information theory . Review the	2	The first

			possibilities And variables Randomness		
Exams Daily+ exams Monthly	PDF Lecture s power point	Introduction to Information measurement, the types of entropies and channel	He learns How? Measure Information And types Entropy And Ability Channel.	10	The secon d- the sixth

Structure The	decision:				. 10
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	The hour T	The week
	Video	capacity: Source of information; uncertainly; information & entropy; joint and conditional entropies; mutual information; discrete memory-less channels; channel model BSC; channel capacity.			
Exams Daily+ exams Monthly	PDF Lecture s power point video	The techniques of source coding and data. data compression: Mathematical Model of Information Source; Huffman Coding; Shannon-Fano Codes	Learn the techniques for encrypting their messages By the channel	6	Seve nth- nint h
Exams Daily+ exams Monthly	PDF Lecture s power point video	Types of Errors. Error control coding (channel coding): Source of Errors; Information Rate; Galois Field Modem Algebra; Taxonomy of Codes; Linear Block Codes; Minimum Distance & Correction; Hamming Code BCH Codes; Cyclic Code; Reed-Solomon Code; Convolution Encoder; (Connection of Convolution, Representation, Code Tree, Trellis Diagram, State Diagram); Maximum Likelihood Decoding; Viterbi Algorithm	Learn Technologies Reveal And Correct the error In Receiving	12	Tent h- Fiftee nth

Structure Infrastructure			.11
 "FUNDAMENTALS of INFORMATION THEORY and CODING DESIGN" by: Roberto Togneri and Christopher JS deSilva . "Information coding techniques" second edition, by: R Avudaiammal. "ESSENTIALS OF ERROR-CONTROL "CODING" by: Jorge Castineira Moreira and Patrick Guy Farrell. 	Prescribed books required	.1	
• Principles Statistics Application For non-specialists / Written by Ghazi Attiya Zarak	References Main(Sources)	.2	
•	Books And references Which Recommended With it	- a	

) , Magazines Scientific ,Reports(
,Reports(

Locations Scientific Sober		
docations Scientific Sober	References electronic Locations The Internet	- B
	Locations The Internet	
Plan Development The decision Academic		12
• Addition or Delete items For the curricula V		
obtained in Every decision And in proportionKeeping up Development The result In ways	1 No Exceeds 10%	
decision	s and means wiscenaneous for the	

Description The decision: English 2 II) (English

.1	المؤسسة التعليمية		جامعة واسط/كلية علوم الحاسوب وتكنولوجيا المعلومات
. ۲	القسم الجامعي / ال	مركز	قسم علوم الحاسوب
۳.	اسم المقرر		إنكليزي ٢
. £	أشكال الحضور الم	تاحة	دوام حضوري (نظري)
.0	الفصل / السنة		الفصل الدراسي الثاني / المرحلة الثانية
٦.	عدد الساعات الدرا	سية (الكلي)	۳۰ ساعة
٠,٧	تاريخ إعداد هذا الو	رصف	Y · Y4/3/\0
۰۸	اهداف المقرر		
	•	تعلم المهارات الأساه	مية للغة الإنكليزية
	•	تعلم اساسيات مهارة	القراءة
	•	تعلم اساسيات مهارة	الكتابة
	•	القدرة على الأصغاء	
	•	فهم المعاني واضافة	مفردات جديدة
	•	تعلم التكلم والمناقشا	باستخدام مفردات اللغة
٠٩	مخرجات المقرر و	طرائق التعليم والتعلم	والتقييم:
	_ Î	الأهداف المعرفية:	
		١٠ القدرة على قر	اءة نصوص اللغة بشكل صحيح
		٢ القدرة على كت	بة فقرات بشكل مترابط
		٣٠ القدرة على وه	سف مكونات اي موضوع
		٤ القدرة على ود	سف مخططات بشكل فقرات مترابطة
	ب-	الأهداف المهاراتية ال	
			ة على المناقشة باستخدام مفردات اللغة
		۲. تنمیة مهارات	الطالب للعمل ضمن فريق وفهم الواجبات الخاصة وانجازها ضمن مدة
	طرائق التعليم والتع	طم	
		١٠ إدارة المحاضر	ة على نحو يشعر بأهمية الوقت.
		• •	ببعض الأنشطة والواجبات الجماعية.
		۳. تخصیص نسب	ة من الدرجة للأنشطة الجماعية.
	طرائق التقييم		
			علة في قاعة الدرس دليل التزام الطالب وتحمله المسؤولية.
		٢. الالتزام بالموح	لد المحدد في تقديم الواجبات والبحوث.
			ت الفصلية والنهائية عن الالتزام والتحصيل المعرفي والمهاري.
	- - -	الأهداف الوجدانية وا	
		١. تطوير قدرة ال	طالب للعمل على أداء الواجبات وتسليمها في الموعد المقرر.

Development Ability The student On Dialogue And discussion.	. 2
Ways Education And learning	
Giving activities group Importance From During Customize Degrees On Activities The group.	.1
administration The lecture On Shape It works The student He feels Importantly Time.	. 2
Encouraging the student On Submission Work Creativity In Specialization Keep up Standards Quality In Service The community.	.3
Ways Evaluation	
Commitment In attendance For a hall The lesson And finish Business The taxpayer With itDuties and reports (Within Timings Specific.	.1
Discussion And participation Effective In Hall The lesson.	. 2
Method of interrogation And that About A way Show Questions Related With the material Scientific In The hall Academic.	.3
Dr- Skills Public And qualification movable) Skills Others relate Employment And developmen	-
This Article I will Build In The student Capacity On Thinking And communication Between him And between His colleagues others In Same The subject and other materials, and this is very important to improve the students' relationship with each other. The student will also develop his ability to think and Use Language English In Communication With others Whether It was That Inside His surroundings or In Various	.1
End The world.	

Structure The decision:					. 10
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	Hours	The week
Questions General And discussio n	Look	Getting to Know you		2	The first
Questions General And discussi on Or an exam I am	Look	The way. way we live		2	The second
Questions General And discussio n	Look	It all went wrong		2	Third
Exam I am	Look	Let's go. go shopping. shopping		2	Fourth
Questio ns Genera l and discuss ion	Look	What do. do you want to do?		2	Fifth

Questions General And Discussion	Look	Tell me! What's it like?	2	Sixth
Questions General	Look	Case studies or exercises: test, revision, more examples	2	Seventh
Group	Look	Present Perfect, Fame	2	Eighth
assign ments				
Questions General	Look	Do's and don'ts	2	Ninth
Questions General	Look	Going Places (Time clauses)	2	Tenth
Questions General	Look	Scared to death (Verb Patterns)	2	1st Ten
Discuss ion and examin ation I	Look	Things that Changed the world	2	Twe lfth
Questions General	Look	Earning a living	2	Third Ten
Duties group	Look	Family ties	2	Fourt h Ten
Discussion	Look	Case studies or exercises: Test, exercises, revision.	2	Fiftee nth

Structure Infrastructure			11
Soars & John, (2006). New Headway plus (Pre- Intermediate)Oxford University Press.	Prescribed books required	.1	
	References Main(Sources)	. 2	
	Books And references Which Recommended With it	- a	
), Magazines Scientific ,Reports(
Locations Electronic	,References electronic	- B	
Specialized	Locations The Internet		

12

- Addition or Delete Vocabulary For the curricula Within Development The result In Every decision And in proportion Do not exceed.% 10
- Keeping up Development The result In ways and means Miscellaneous For the decision Addition Everything He New It is useful for the student To acquire Skills New And keep up Development The

result.

Description of the course: Architectural Computer Architecture) (Computer

of Wasit University/ College Science Computer And technology Information	The institution		.1
	Educational		
Section Science Computer	Section Section University/ The cent	ne	. 2
Architectural Computer	Name of the rap		.3
work hours My presence Look	Shap Attendan availab	ce	. 4
Chapter Academic The second/The stage The second	Chapter/ year		.5
An hour 30	Numbe Academic	r Hours c(total)	.6
0 1/3/4 202	Date Preparati This Descripti		.7
Goals The decision			.8
Recognition On Principles Basic In Architectural The computer.		•	
Knowing the components The computer.		•	
Knowledge Knock Transfer Information Between parts The computer.		•	
Recognition		•	
Outputs The decision And ways Education And learning And evaluation:			.9
Objectives Knowledge:		- a	
. Definition The student 7 Parts Computer			
. Definition The student In 8 the field of transportation Data.			
	.9		
	. 10		
	.11		
	. 12		
Objectives Marathi Private By decision:		- B	
. Familiarity With ingredients 5 Computer			
. Knowledge Knock And Algorithms Transfer Data Between 6 Parts Computer			
	T		

. 8 **Ways Education And learning** . Meeting Lectures Scientific In Halls Academic And use the 6show) (Data For the purpose of a statement Ideas Main for the topic. . Guidance Students To Some Locations Electronic For 7 benefit From her. . Cost The student By implementing A group From Programs 8 In Laboratories The process. . Cost The student Prepared Reports Brief For some Topics And Implementation Duties 9 Household. . 10 **Ways Evaluation** . Implementation Duties Daily

- . Tests Daily And monthly And the final 6.
- . Participation In Hall The lesson 7.
- . Maintenance On Attendance 8.

Objectives Existentialism And value.

-C

Encouragement Students On Benefit From The decision From During Faith Importantly The 5 decision In The process Educational And in Field

Specialization In a way General.

- . Enhancement Cooperation Between Students From During 6 Execution of duties The process.
- . Development Energies The idea And creativity I have The request From During Implement 7 them To different Duties.
 - . Encouragement The request And raise spirit 8 Competition Among them.

Ways Education And learning

- . Giving Activities group Importance From During Customize Degrees On Activities group 3
 - . Enable The student From Process Connecting Between 4 side Theoretical And practical.

Ways Evaluation

- . Participation Effective In Hall The lesson Evidence Commitment 4
 The student And you carry it Responsibility.
- . Commitment On time specified In Submission Duties 5
 And research.
- . It is considered Tests Now, The quarterly And the final About Commitment And collection Cognitive And the skills.

Skills Public And qualification movable) Skills Others related Capable Employment And development Personal(.

- Dr

- . Skill Education Self And Contact 5.
- . Skill administration Time And Data 6.
- . Skill administration Individuals And 7 Motivate them.
 - . Skill Work Within A group 8.

Structure The decision:				.10	
Method Evaluation	Metho d Educat ion	Name Unit/or Topic	Outputs Learning required	Hours	The week
Discussion/ Questions General	Look	Computer Organization	Computer organization	2	The first
Discussion/ Questions General/ Real-time exam	Look	Memory Types	Types Memory	2	The second
Discussion/ Questions General	Look	The Memory Hierarchy	Hierarchical Memory	2	Third
Discussion/ Questions General	Look	Cache Organization	Organize Memory Cash	2	Fourth
Discussion/ Questions General	Look	Memory Mapping Organization 1	Organize Map Memory	2	Fifth

Discussion/ Questions General	Look	Memory Mapping Organization 2	Organizing a map Memory	2	Sixth
Discussion/ Questions General	Look	Replacement Algorithms	Algorithms Replacement	2	Seventh
Discussion/ Questions General	Look	The Instruction Cycle	turn Instructions	2	Eighth
Discussion/ Questions General	Look	Instruction Pipelining	Convert Instructions	2	Ninth
Discussion/ Questions General	Look	Pipeline Hazards	Dangerous Transfer	2	Tenth
Discussion/ Questions General	Look	RISCs and CISCs		2	Elev enth
Discussion/ Questions General	Look	RISC Architectures		2	The secon d
Discussion/ Questions General	Look	CISC Architectures		2	Third Ten

Structure The decision:				. 10	
Method Evaluation	Metho d Educat ion	Name Unit/or Topic	Outputs Learning required	Hours	The week
Discussion/ Questions General	Look	Parallel Architectures	Architectural Parallel	2	Fourt h Ten
Exam	Com preh ensi ve exa m	Exam Comprehensive	Exam Comprehensive	2	Fiftee nth

Structure Infrastructure			.11
M. Morris Mano, "Computer System Architecture", 2002, Printest Hell.	Prescribed books required	.1	
•	Books And references Which Recommended With it), Magazines Scientific ,Reports(- a	
Locations Scientific Sober	References electronic Locations The Internet	- B	

. 12

- Addition or Delete items For the curricula Within Development Scientific The result In Every decision And in proportion No Exceeds 10%
- Keeping up Development Obtained through methods and means Miscellaneous For the decision

Description The decision: Data retrieval and web searching) and data recovery (Web Search

AVV. 1. V. 1. 1. 1. 0. V. 0. 1. 0. V. 0. 1. 0. V. 0. V		
of Wasit University/ College Science Computer And technology	The	. 1
Information	institution	
	Educational	
Section Science Computer	Section	. 2
	University/ The	
	center	
Data retrieval and web searching	Name of	.3
-	the	
	rapporte	
	ur	
Attendance time(theoretical)	Shapes	. 4
	Attendance	
	available	
Chapter Academic The first/The stage Third	Chapter/	.5
	year	
	Number Hours	
An hour 45	Academic	. 6
	(total)	
0 1/3/4 202	Date Preparation	.7
	This Description	
Goals The decision		. 8
Aims The decision To Education The student	•	
Basics Recover Information.		
Aims The decision To Definition The student	•	
Basics Treatment Primary.		
Giving The student Look About	•	
Components System Recover Information.	J	
Aims The decision To Definition The		
student In a way Work Engines Search.	•	
Outputs The decision And ways		.9
Education And learning And		•
Education And learning And evaluation:		
Objectives Knowledge:	- 9	
Timerityes simwlenge	- 3	

. Definition The student Basics Search the web 1 And Recover Information.	
. Iksaab The student Knowledge necessary To design 2 System Simple To retrieve information.	
. Learn Some Algorithms 3 Recover Information.	
	- B
Objectives Marathi Private By decision:	- D
. Iksaab The student Skill Design Programs Search And Recover 1 Information.	
. Iksaab The student Skill Work The group To achieve Projects 2 Research Scientific.	
Ways Education And learning	
• Meeting Lectures Scientific In Halls Academic 1.	
. Discussion About A way Guidance Questions And it opened Chapter Dialog interaction With The request.	ue And 2
. Cost The student Prepared System Recover 3 Simple.	
. Cost The student Prepared Reports Brief For some 4 Topics.	
. Cost The request Prepared Projects Organization 5 Recover Certain.	
. Cost The request With work Lectures Optional For topics Related Recover I	nformation
Ways Evaluation	
. Implementation Duties Daily 1.	
. Tests Daily And monthly And the final 2.	
Objectives Existentialism And value.	-C
Encouragement Students On Benefit From decided by During Faith Important decision In The process Educ	

Field Specialization In a way General.

- Enhancement Cooperation Between Students From During 2 Implementation Duties The process.
 - . Development Energies The idea And creativity I have The request From During Implement them To different Duties.
- . Encouragement The request And raise spirit 4
 Competition Among them.

Ways Education And learning

- . Giving Activities group Importance From During Customize Degrees On Activities group
 - . administration The lecture On A form that works The 2 student He feels Importantly Time.
 - . Encouragement The student On Submission Work Creativity In Specialization 3
 Complies with standards Quality In Service The community.

Ways Evaluation

- Commitment In attendance For a hall The lesson And finish Business The taxpayer
 With itDuties and reports (Within Timings Specific.
- . Discussion And participation Effective In Hall 2
 The lesson.
- . It is considered Tests Now, The quarterly And the final About Commitment 3
 And collection Cognitive And the skills.

Skills Public And qualification movable) Skills Others related Capable - Dr Employment And development Personal(.

- . Development Ability The student On Dealing With 1 Means Technology.
 - . Development Ability The student On Dealing 2 With Internet.
 - . Development Ability The student is on Learn Knock And methods Development 3 Personal Why? After The decision.
- . Development Ability The student On Dialogue 4 And discussion.
 - . Development Ability The student is on Search Scientific And 5 Writing Search Scientific Sober.

Structure The decision:					. 10
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	Hours	The week
iscussion/ General questions	Theoretical + practical	Introduction to Information Retrieval		3	The first
iscussion/ General questions	Theoretical + practical	Introduction to Information Retrieval		3	The second
Discussion/ Questions General	Theoretical + practical	Preprocessing		3	Third
Discussion/ Questions General	Theoretical + practical	Preprocessing		3	Fourth
iscussion/ General	Theoretical	write. write program. program functions to		3	Fifth

questions		retrieval system.		
iscussion/ General questions	Theoretical + practical	write. write program. program functions to implement information recovery system.	3	Sixth
iscussion/ General questions	Theoretical + practical	Information Retrieval Algorithms	3	Seventh
iscussion/ General questions	Theoretical + practical	Information Retrieval Algorithms	3	Eighth
iscussion/ General questions	Theoretical + practical	Information Retrieval Algorithms	3	Ninth
Discussion/ Questions General	Theoretical + practical	DNA Databases	3	Tenth
Discussion/ Questions	Theoretical + practical	DNA Databases	3	1st

Structure The decision:				. 10	
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	Hours	The week
General					Ten
iscussion/ General questions	Theoretical + practical	Genomic Information Retrieval		3	Twe lfth
iscussion/ General questions	Theoretical + practical	Genomic Information Retrieval		3	Thi rtee nth
iscussion/ General questions	Theoretical + practical	Genomic Information Retrieval		3	Fou rtee nth
Discussion/ Questions General	Theoretical + practical		Review Comprehensive	3	Fifth Ten

Structure Infrastructure			11
 An Introduction to Information Retrieval, Christopher D. Manning Prabhakar Raghavan Hinrich Schütze 	Prescribed books required	.1	
	References Main(Sources	. 2	
	Books And references Which Recommended With it), Magazines Scientific	- a	
Locations Scientific Sober	,Reports(,References electronic Locations The Internet	- B	_

12

- Addition or Delete items For the curricula Within Development Scientific obtained in Every decision And in proportion No Exceeds 10%
- Keeping up Development Obtained by means And the methods Miscellaneous For the decision

Model Description The decision Description The decision: Drawing Computer graphic) (computer

University of Wasit/ College Science Computer And technology	The	
Information	institution	
	Educational	
Section Science Computer	Section	
-	University/ The	
	center	
Drawing Computer	Name of	
	the	
	rapporte	
	ur	
work hours My presenceMy view And practical(Shapes	
	Attendance	
	available	
Chapter Academic The first/The stage The second	Chapter/	
	year	
An hour 60	Number Hours	
	Academic(total)	
0 1/3/4 202	Date Preparation	
	This Description	
Goals The decision		
Obtain On Knowledge And the facts related In all kinds	•	
Software And technologies Drawing Calculately.		
Acquisition The student Skills Process Use	•	
Programs Drawing Calculately.		
I know him The reasons Which	•	
Led To Use Drawing.		
Knowledge What She is Knock Drawing And The user	•	
To build To draw The binary And the third Dimensions		
•		
Outputs The decision And ways		
Education And learning And		
evaluation:		
Objectives Knowledge:	- a	
. Definition According to the 6		
principles of Dasies Drawing		

Computer.	
. Application Concepts Drawing Computer 7.	
. Realization 8	
Importance Drawing By	
computer.	
. Select The difference Between Systems 9	
Software And the algorithm The drawing.	
. Capability On Description 10 Knock The drawing And types.	
Objectives Marathi Private	- B
By decision:	- B
. Capability On Meeting Lecturer Related By drawing 5	
The computer.	
. Capability On design Shapes Bilateral And three 6	
Dimensions.	
. Capability On Learning And Training On Different Systems 7	
Drawing By computer.	
. Capability On Managing dialogues And Discussions related By 8	
organization The drawing.	
Ways Education And learning) (D. 4. F. 4)
. Meeting Lectures Scientific In Halls Academic And use the 7show	statement Ideas
Main for the topic.	statement ideas
. Use Device Computer In implementation 8	
Programs.	
. Guidance Students To Some Locations Electronic For 9	
benefit From her.	
. Cost The student By implementing A group From Programs In 10	
Laboratories The process.	
. Cost The student Prepared Reports Brief For some Topics And Execut	tion of duties 11
Household.	
. Episodes Discussion To be treated Problems Which He faces 12	
it The student By decision.	
Ways Evaluation	
. Implementation Duties Daily 5.	
. Tests Daily And monthly And the final 6.	

- . Participation In Hall The lesson $\,$ 7.
- . Maintenance On Attendance 8.

Objectives Existentialism And value.

-C

- . Encouragement Students On Benefit From The decision From During Faith 5
 Importantly The decision In The process Educational
 And in Field Specialization In a way
 General.
- . Enhancement Cooperation Between Students From During 6
 Implementation Duties The process.
 - . Development Energies The idea And creativity I have The request From During 7 Implement them To different Duties.
 - . Encouragement The request And raise spirit 8 Competition Among them.

Ways Education And learning

- . Giving Activities group Importance From During Customize Degrees On Activities 4 group
- . administration Lecture on A form that works The student 5 He feels Importantly Time.
- . Encouragement The student On Submission Work Creativity In Specialization Keep 6 up Standards Quality In Service The community.

Ways Evaluation

- . Participation Effective In Hall The lesson Evidence Commitment The student And you 4 carry it Responsibility.
 - . Commitment On time specified In Submission Duties 5

And research.

. It is considered Tests Now, The quarterly And the final About Commitment 6
And collection Cognitive And the skills.

Skills Public And qualification movable) Skills Others related Capable Employment And development Personal(.

- Dr

Skill administration Data And Knowledge And 61 Technology Information.

Development Ability The student is on Learn Knock And methods Development Personal 62 Why? After The decision.

Development Ability The student On Dialogue 63

And discussion.

Development spirit Creativity And perseverance And search 64 About New In Field His work.

Structure The d	Structure The decision:				
Method Evaluation	Metho d Educa tion	Name Unit/or Topic	Outputs Learning required	Hours	The week
Tests Theory and process	Theore tical lecture s and practic al	Introduction to computer graphics: - What is computer graphics? -Elements of picturesGraphics display devices Graphics inputprimitives and devices.	Introduction General About Computer drawing	8	The first and seco nd

	tions				
Tests Theory and process	Theore tical lecture s and practic al applica tions	Getting stated drawing figures: -Getting started making picturesDrawing based graphics primitivesMaking lines drawingsSimple Interaction with the mouse and keyboard.	Education Methods Primary To draw pictures	12	The ,third ,fourth and fifth
Tests Theory and process	Theore tical lectur es And applicat ions	More drawing tools: - World windows and viewportsClipping	Learn tools Drawing Additional	12	Sixth The seven th and eight h

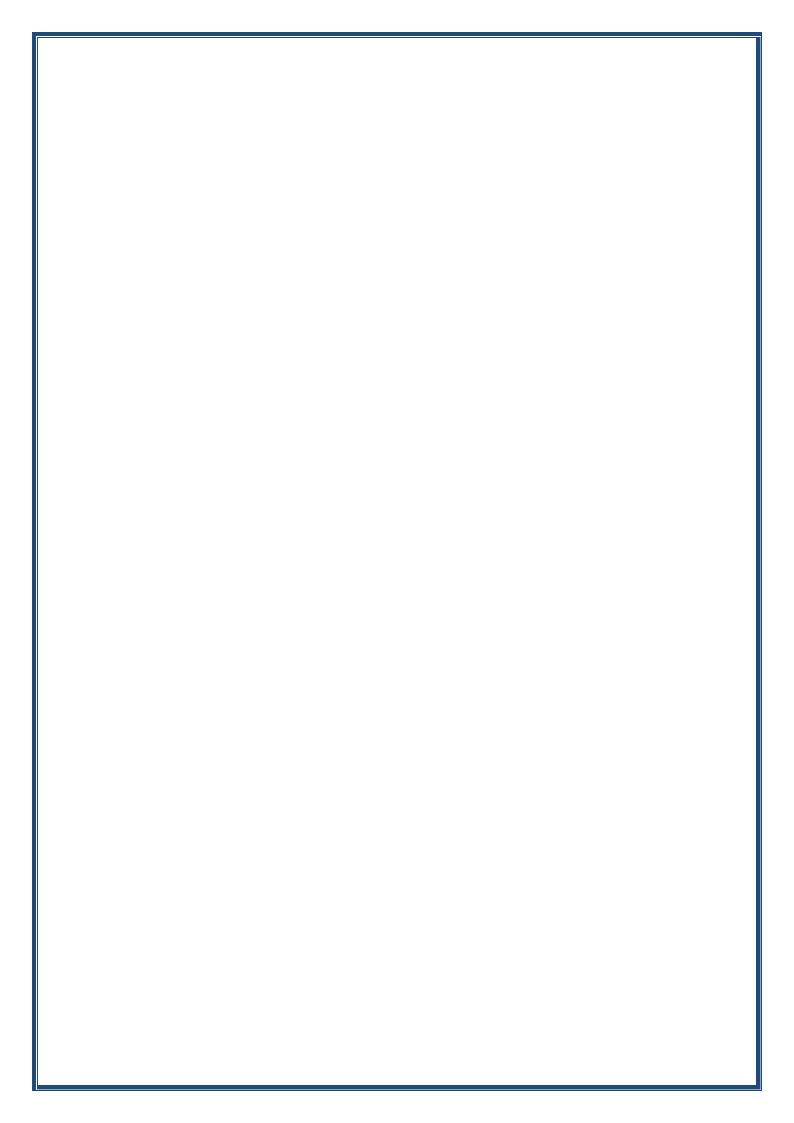
Structure The	decision:				.10
Method Evaluation	Metho d Educa tion	Name Unit/or Topic	Outputs Learning required	Hours	The week
	Proces s	linesFigures based on regular polygon Drawing circles and arcs			
Tests Theory and process	Theore tical lecture s and practic al applica tions	Introduction to transformation Transforming point and objects, the affine transformation, -3D affine transformation Changing coordinate systemsDrawing 3D scenes with openGL.	Education Transfers	12	The ,ninth ,tenth and eleven th
Tests Theory and process	Theore tical lecture s and practic al applica tions	Three Dimentional viewing: -The camera revisedBuilding a camera in a program. programPerspective Projections of 3D objects.	The trigram Dimensions	12	The twelf, th thirt eenth and fourt eenth
Exam	Atte ndan ce and work		theoretical exam And practical	4	Fiftee nth

Structure Infrastructure			.11
• rank. rank Klawonn (2012). Introduction to Computer Graphics: Using Java 2D and 3D. Second Edition. Springer-Verlag London.	Prescribed books required	.1	
	References Main(Sources) Books And references Which Recommended With it), Magazines Scientific ,Reports(. 2 - a	
Locations Scientific Sober	,References electronic Locations The Internet	- B	

- Addition or Delete items For the curricula Within Development Scientific obtained in Every decision And in proportion No Exceeds 10%
- Keeping up Development The result In ways and means Miscellaneous For the decision

third level

- 1-Software engineering
- 2-Principles of artificial intelligence
- 3-English language
- 4-Translators (1)
- **5-Computer Networks(1)**
- 6-Multimedia systems
- 7-Operations research
- 8-encryption
- 9-Translators (2)
- 0- Computer Networks (2)
- 1- Distributed databases
- 2- Website programming
- 3- Data mining



Description of the course: Engineering Software Engineering) (Software

Wasit University/ College Science Computer And technology Information	The institution	. 1
	Educational	
Section Science Computer	Section	. 2
•	University/ The	
	center	
Engineering Programs	Name of	.3
	the	
	rapporte	
	ur	
Attendance time) Theoretical and practical(Shapes	. 4
	Attendance	
	available	
Chapter Academic The first/The stage Third	Chapter/	. 5
	year	
An hour 60	Number Hours	. 6
0.4/2/4.202	Academic(total)	_
0 1/3/4 202	Date Preparation	. 7
	This Description	.8
Goals The decision		. 0
Providing students With an	•	
introduction Comprehensive For		
engineering Software.		
Supply Students In all kinds Activities	•	
necessary To produce The system.		
Study The stages Important To develop Software.	•	
Building System Programmatic High Quality.	•	
Explanation turn Life Building The system.	•	
Acquiring knowledge In All stage From	•	
Stages Building The system.		
They understand Application	•	
Principles Engineering Software On		
The project.		0
Outputs The decision And ways		.9
Education And learning And evaluation:		
Objectives Knowledge:	9	-
	- a	
. Clarification Concepts Basic For principles Engineering Software	1	
And recognition On A group From To	UIS.	
. Acquisition Skills In Building The 2		
system And treatment Problems.		-
. Study Technologies Abstract 3		

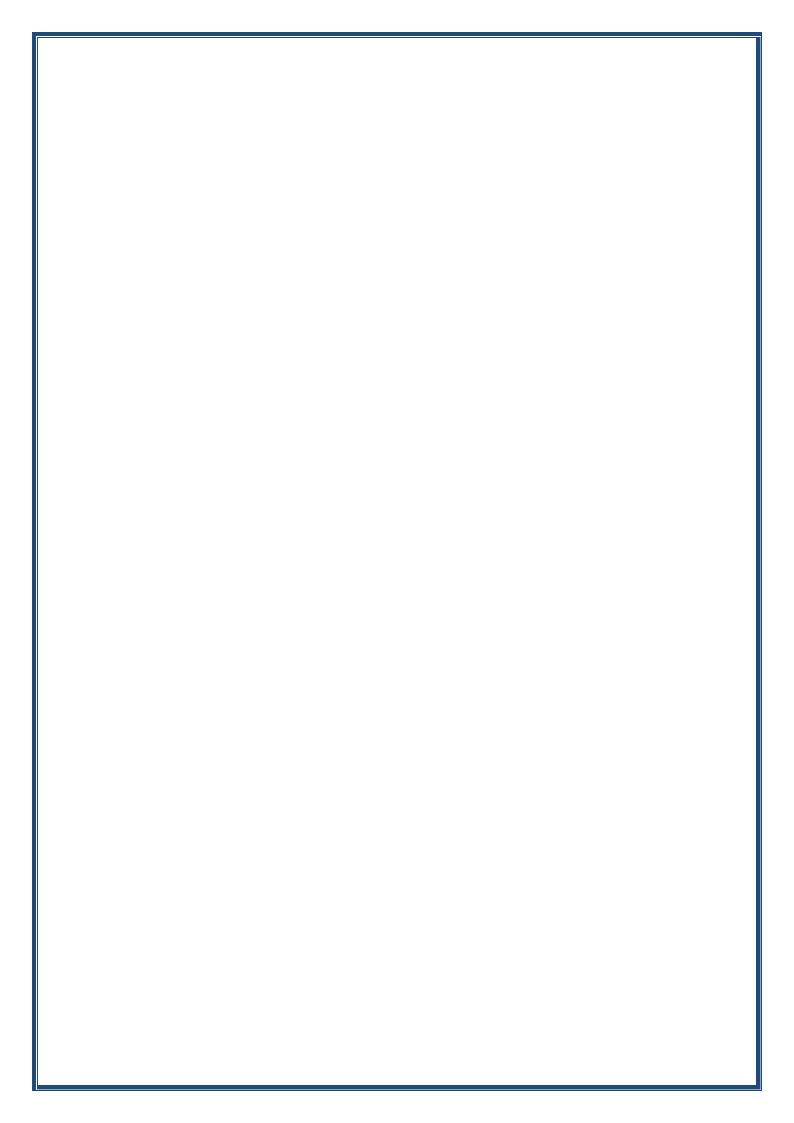
. Study Stages Building The system And the cost And the time Required. **Objectives Marathi Private** - B By decision: Capacity On building The organization In a way A minute Using Principles Engineering Software. . Capacity On Thinking In Processing The problem According to Standards Quality. . Writing Reports Scientific . Use Models Construction developed To get On Programs Efficient. **Ways Education And learning** . Meeting Lectures Scientific In Halls Academic And use the 1show) (Data For the purpose of a statement Ideas Main for the topic. . Guidance The request To Some Locations Electronic For benefit From her. . Cost The student Prepared Reports Brief For some Topics And Implementation Duties Household. . A contract Research sessions It is done From During it Explanation And analysis Some Problems A state Ijad Solutions For him. **Ways Evaluation** . Action Tests Theory In The hall Academic 1) daily, monthly, (final)

. Subtract Questions And inquiries Oral On The request For a statement Extent Their response. Organize The request In a way Totals And their cost Completely Building requirements System Certain And evaluation Percentage Their achievement For that Work. **Objectives Existentialism And value.** -C . Encouragement Students On Benefit From decided by During Faith Importantly The decision In The process Educational And in Field Specialization In a way General. Ability The student To work On performance Duties And deliver it In The appointment The decision. . Development Energies The idea And creativity I have The request From During 3 Implement them To different Duties. . Encouragement The request And raise spirit 4 Competition Among them. Thinking The logical one In Study Sides The problem And find Solutions 5 appropriate For her. Development Ability The student On Dialogue 6 and discussion. Ways Education And learning . Giving Activities group Importance From During Customize Degrees On Activities group . administration The lecture On A form that works The student He feels Importantly Time. . Encouragement The student On Submission Work Creativity In Specialization Complies with standards Quality In Service The community. **Ways Evaluation** Commitment In attendance For a hall The lesson And finish Business The taxpayer With itDuties and reports (Within Timings Specific. . Discussion And participation Effective In Hall The lesson. . It is considered Tests Now, The quarterly And the final About Commitment And collection Cognitive And the skills. Skills Public And qualification movable) Skills Others related Capable - Dr **Employment And development Personal(.** . Development Ability The student On Dealing With Means Technology. . Development Ability The student On Dealing 2 With Internet. . Development Ability The student is on Learn Knock And methods Development Personal Why? After The decision. . Development Ability The student On Dialogue And discussion. . Development spirit Creativity And perseverance And search About What's new in Field His work.

Structure The decision:			. 10		
Method Evoluation	Aetho d Educa tion	Name Unit/or Topic	Outputs Learning required	Hours	The week

Questions General And discussion	Look	Basic Concepts: software product, Software crisis, software engineering	Fundamental of Software Engineering	3	The first
Questions General A daily discussion or .exam	Look	software process, software process model, methodologies, methods, tools, artifacts	Fundamental of Software Engineering	3	The second
Questions General And discussion	Look	Software Process (I): process models, iterative process	Software process	3	Third
Exam My day	Look	Software Process (II): software process activities. activities (specification, design and	Software process	3	Fourth

		Structure The decision	:		. 10
Method Evaluation	Metho d Educa tion	Name Unit/or Topic	Outputs Learning required	Hours	The week
		implementation, validation/verification, evolution); Software Requirement Engineering (I)			
Questions General A daily discussion or .exam	Look	Functional/Non Functional requirements, User requirements, System requirement, Requirement document. document	Software requirements	3	Fifth
Questions General And Discussion	Look	Software Requirement Engineering(II): Software requirement, elicitation and analysis, basics on Use case	Software requirements elicitation	3	Sixth
Questions General	Look	System Models (I): Context models, Behavioral Models; System Models (II): Data Models, Objects Models	System Model	3	Seventh
Duties group	Look	Architectural Design: system structuring, control models, modular decomposition; Object Oriented Design, UML notation; User interface design: user interface design principles, user interaction	Uniform Modeling Language	3	Eighth
Questions General	Look	Risk analysis concept and principles	Risk Analysis	3	Ninth
Exam Monthly	Look	Risk analysis concept and principles	Risk Analysis	3	Tenth
Questions General	Look	software Quality Assurance, Quality control	Software Quality Assurance	3	Elev enth
cussion And Daily exam	Look	Software Quality Assurance, Quality control	Software Quality Assurance	3	Twe lfth
Questions General	Look	Software Quality Assurance, Quality control	Software Quality Assurance	3	Thi rtee nth
Duties group	Look	Software Testing ,Verification and Validation: planning,	Software Testing	3	Fou rtee nth



Structure The decision:					. 10
Method Evaluation	Metho d Educa tion	Name Unit/or Topic	Outputs Learning required	Hours	The week
		software Inspections			
Discussion	Look	defect testing, integration testing	Software Testing	3	Fiftee nth

Structure Infrastructure		.11
 Software engineering, Roger S.Pressman,2014. Introduction to Software Engineering, Ian 	Prescribed books . 1	
Sommerrivle, 2007.	required	
•	References Main (Sources) . 2	
	Books And references - a Recommended scientific) journals),	
Locations Scientific Sober	,Reports(References ,electronic Internet sites	

. 12

- Addition or Delete Vocabulary For the curricula Within Development Scientific obtained in Every decision And in proportion No Exceeds 10%
- Keeping up Development The result In ways and means Miscellaneous For the decision

Description of the course: Research Operations Researches) (Operation

of Wasit University/ College Science Computer And technology Information	The institution Educational	.1
Section Science Computer	Section University/ The center	. 2
Research Operations	Name of the rapporteur	.3
Attendance time(theoretical)	Shapes Attendance available	. 4
Chapter Academic The first/The stage The third	Chapter/ year	.5
An hour 45	Number Hours Academic(total)	. 6
0 1/3/4 202	Date Preparation This Description	.7
Goals The decision		.8
Recognition On Understood Research Operations.	•	
It is possible The student Knowledge Field Use Research Operation In Applications Many In Location And its development		
Capacity On Formulation Issues Programming The plan Simple.	•	
Acquisition Method Thinking Al-Salim In How Survey Problems who Then Its formulation According to Model Scientific (m		
Outputs The decision And ways Education And learning And evaluation:		.9
Objectives Knowledge:	- a	
. Enable The student From Knowledge 1 Knock Solutions Issues different.		
. Enable The student From Ijad Values The bone or 2 The smallest For problems Profit And the cost.		

. Enable The student From Knowledge Jobs Basic 3 For many From Knock The solution.	
. Enable The student On Solution Programming issues The plan In the way 4 Graphic And analysis Sensitivity The solution Example Statement.	
Objectives Marathi Private By decision:	- B
. Knowledge How Solution Problems Transfer The goods The producer From The	factor 1
To Stores or To the consumer I And cost.	Less Time
. Knowledge How Take The decision In proportion For 2	
issues The decision The follower.	
. Knowledge How Access For production Example Using 3	
Programming The plan.	
Ways Education And learning	
. Meeting Lectures Scientific In Halls Academic And use the 1show) (Data For the
purpose of a statement Ideas	
Main for the topic And Connect side Theoretical By example The process In The la	boratory.
. Guidance Students To Some Locations Electronic For 2	
benefit From her.	
. Cost The student Prepared Reports Brief For some 3	
Topics.	
. Discussion Scientific Inside The hall 4.	
Ways Evaluation	
. Implementation Duties Daily 1.	
. Tests Daily And monthly And the final 2.	
. Participation In Hall The lesson 3.	
. Maintenance On Attendance 4.	

Objectives Existentialism And value. **-C** • planting Values And principles I have The request From During Confirm Independence **Team Research Operations When Start His opinion.** . Enhancement Cooperation Between Students From **During Implementation Duties.** Development Energies The idea And creativity I have The request From During Implement 3 them To different Duties. . Encouragement The request And raise spirit Competition Among them. **Ways Education And learning** . Accreditation Style Meeting Lectures And connect All Example topic Explanation. . Giving The request Some Exercises The process Discussion Exercises With The request And solve it During The lecture With participation All The request To give Article Type From Interaction. **Wavs Evaluation** . Commitment In attendance For a hall The lesson And finish Business The taxpayer With it **Duties and reports (Within Timings Specific.** . Discussion And participation Effective In Hall The lesson. . Test The request For information Article previous. Skills Public And qualification movable) Skills Others related Capable - Dr **Employment And development Personal(.** . Development Ability The student On Dealing With Means Technology. . Development Ability The student On Dealing With Internet. . Development Ability The student is on Learn Knock And methods Development Personal Why? After The decision. . Development Ability The student On Dialogue And discussion. . Development spirit Creativity And perseverance And search About What's new in Field His work.

Structure The decision:					. 10
Method Evaluation	Metho d Educat ion	Name Unit/or Topic	Outputs Learning required	Hours	The week
General questions/ Discussion	Look	Explanation General About Beginning Process Manufacture The decision	What She is Research ?Operations	2	The first
Questions General/ Discussion/ My exam	Look	Entrance to Basics Programming The plan And Its importance and how to formulate it	Programming The plan	2	The second

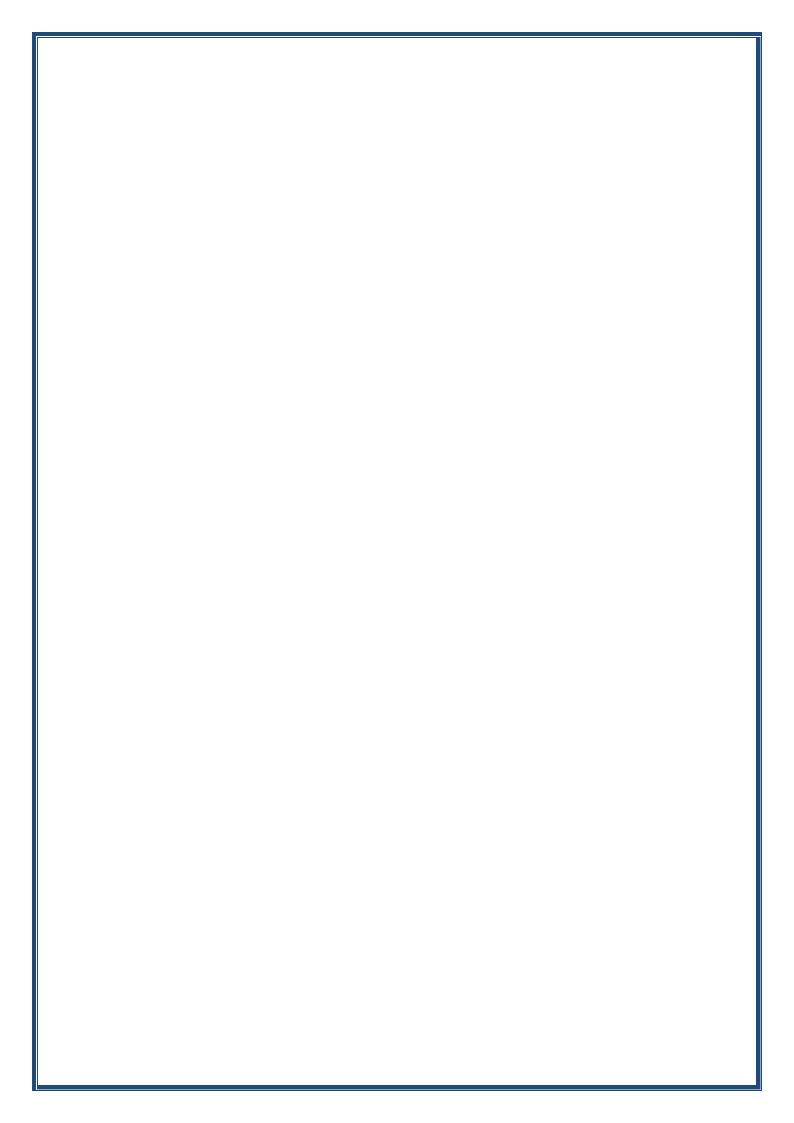
Look	How The solution Using One Public roads/ solution The statement	Knock Solution Programming The plan	2	Third
Look	xplanation Cases Give examples .for each case	es Especially For solutions Linear programming	2	Fourth
Look	How The solution In My condition Maximization And reduction	simple way	2	Fifth
Look	Examples And solutions	Analysis Sensitivity	2	Sixth
Look	Solution steps And giving Examples	Dual mathod	2	Seventh
Look	Formulation Model The athlete For a problem	Model Transportation	2	Eighth
Look	Business networking methods and steps necessary To represent Project With a network Business	Model Networks Business	2	Ninth
Look	Knock Account The times	Time method Surplus	2	Tenth
Look	How Use Method nloading And a way Determine to find the	Setup programming The correct health	2	Elev enth
	Look Look Look Look Look Look	Look Look	Look Splanation Cases Give examples for each case Give examples for each case How The solution In My condition Maximization And reduction Solutions Look Solution Statement Simple way Simple way Maximization And reduction Solutions Look Solution steps And solution Model The athlete For a problem Transportation Susiness necessary To represent Project With a network Business Look Knock Account The times How Use Method Indading And a way Determine to find the Selection Solution Selection Programming The solutions Selection Solutions Selection Solutions Selection Solutions Selection Solutions Selection Selection Solutions Selection Selectio	Look Using One Public roads/solution The statement Look Clive examples

Structure The decision:					. 10
Method Evaluation	Metho d Educat ion	Name Unit/or Topic	Outputs Learning required	Hours	The week
Discussion/ Exam I am	Look	Knock Solution Issues The decision The follower	Programming Dynamics	2	The secon d
Questions General	Look	Laws used In the waiting lines	Model Waiting	2	Thi rtee nth
Duties group	Look	Programming Traditional Not restricted matters The limit	Non- programming Plan	2	Fourt h Ten
Discussion	Look	Examples And solutions	Formulation Issues Programming Others Plan	2	Fifth Ten

Structure Infrastructure			. 11
 Research Operations To Dr Hamed Al-Shamrati. Operations Research An Introduction ,HamdyA . taha . 	Prescribed books required	.1	
	References Main (Sources)	.2	
	Books And references Which is recommended With it) Magazines , Scientific ,Reports(- a	
Locations Scientific Sober	References ,electronic Internet sites	- B	

- . 12
- Addition or Delete Vocabulary For the curricula Within Development The result In Every decision And in proportion Do not exceed.% 10
- Keeping up Development The result In ways and means Miscellaneous For the decision Addition Everything He New It is useful for the student To acquire Skills New And keep up Development The

result.



Description The decision : Translations (1)Compilers) (

المؤسسة التطبيعية المنطقيعية المساور المسا			
 إ. اسم المقرر المتاحة (الفرائي) مترجمات (نظري وعملي) و. القصل / السنة (الكلي) (المسلة الفصل الراسي الأول / المرحلة الثالثة (الكلي) (المسلة التفسل الراسية (الكلي) (المسلة الثالثة المقرر الى تعريف الطالب على المستويات الخاصة بلغات البرمجة (الكلي) (المسلة المقرر الى تعريف الطالب على المستويات الخاصة بلغات البرمجة (المستويات المقرر الى تعريف الطالب على المستويات الخاصة بلغات البرمجة (المستويات المقرر الى تعريف الطالب على المستويات المستخدمة في كل مردلة برمجية من لحظة ضغط زر التنفيذ وصولا الى القور التنابج على شاشة التنفيذ (المستويات المستخدمة في كل مرحلة) التعرف على المرحل السنة الهذا المقرر الى تمان الممكن ان يرتكبها المبرمج. التعرف على المرحل السنة الهذا المقرور التقليم التعرف على المرقبة التعرف على المرحل المستقدة المستخدمة والمستخدمة في كل مرحلة التعرف على المرحل المستقدة التعرف على المرحل المستقدة التعرف على المرحل المستوية التعرف على المرحل المستوية التعرف على المرحل المستويات الكل لغة برمجية التعرف على المرحل المستويات الكل لغة برمجية معرفة وفهم تسي عمل سياقات كل مرحلة بسمورة مستقلة معرفة وفهم تلوع البيائات المخلفة والذي عليه يحدث تنوع في طرق تمثيل لغوي المهاراتية الخاصل الميائية المسترجم الخاص بلغة معينه او تطويره او التعيل علية المساب الطالب الفيدة في اكتشاف الخطا وعدم الوقوع فيه. المحاضرات العلمية في القناعات الدراسية طرائق التقييم المختبارات اليومية المشائل التي يواجهها الطالب بالمقرر الاخذاف المومية والشهرية والنهائية الاخذاف الوجذائية والقيه الاخذاف الوجذائية والقيه الاخذاف الوجذائية والقيه 	.1	المؤسسة التعليمية	جامعة واسط/كلية علوم الحاسوب وتكنولوجيا المعلومات
أَهُ مُثِلُ المحضور المتلحة الواسية (الكلي) القصل / السنة الفراسية (الكلي) القصل / السنة الفراسية (الكلي) العدال المساعات الدراسية (الكلي) المرابع الإعراد هذا الوصف (٢٠ ٣/١/3/١٥ المداف المقرر الي تعريف الطالب على المستويات الخاصة بلغات البرمجة. يهدف هذا المقرر الي تعريف الطالب على المستويات الخاصة بلغات البرمجة. يهدف هذا المقرر الي تعريف الطالب على المستويات الخاصة بلغات البرمجية مكتوب باي لغة برمجية من المنهة التنفيذ. التعرف على المراحل السنة لهذا المقرر والخوارزميات المستخدمة في كل مرحلة. التعرف على الإخطاء التي من الممكن ان يرتكبها المبرمج. التعرف على الإخطاء التي من الممكن ان يرتكبها المبرمج. التعرف على القرق بين المقسرات والمترجمات. الثاهرة وطرائق التعليم والتقيم والتقيم والتقيم على المائلة برمجية. التعرف على مراحل المترجمات لكل لغة برمجية. عرفة وفهم تنوع البياتات المدخلة والذي عليه بحدث تنوع غي طرق تمثيلها. معرفة وفهم تنوع البياتات المدخلة والذي عليه بحدث تنوع غي طرق تمثيلها. معرفة وفهم تنوع البياتات المدخلة والذي عليه معنية التعليل لغوي. الهداف المهاراتية الخاصة بالمقرر: الإهداف المهاراتية الخاصة بالمقرر: الأمان التعليم والتعليم والتعليم والتعليم غيلة المتابعة المتلوم المتوقع غيل. الشاء المحاضرات الطمية في القاعات الدراسية. الشاء المحاضرات الطمية في القاعات الدراسية. الثهذاف الطلاب باعداد تقارير مختصرة لبعض المواضيع و تغفذ الواجبات المنزلية. التغييم الموافية والتنهيرة والنهاتية. الخذيل ال الومية والشهرية والنهاتية. الأخذيل ال الومية والشهرية والنهاتية. الأخذيل النوابية والشهرية. الأخذيل الناومية والشهرية والنهاتية. الأخذيل الوجيات المومية. الأخذائية والقيمية. الأخذائية والقيمية.	۲.	القسم الجامعي / المركز	قسم علوم الحاسوب
القصل / السنة القصل الدراسية (الكلي) ١٠ ساعة ١٠ عدد الساعات الدراسية (الكلي) ١٠ ساعة ١٠ عدد الساعات الدراسية (الكلي) ١٠ ساعة ١٠ كرب ١٠ ١٠ كرب ١٠ عدد الساعات الدراسية (الكلي) ١٠ عدد الساعات الدراسية (الكلي) ١٠ عدد الساعة المقرر اللي تعريف الطالب على المستويات الخاصة بلغات البرمجة. يهدف هذا المقرر اللي تعريف الطالب عن استيعاب المراحل التي يمر بها كل برنامج مكتوب باي لغة برمجية منافظة منطفر التنقيد وصولا التي المقدر اللي تطهور التنتين على شاشة التنفيذ. التعرف على المراحل السنة لهذا المقرر والخوارزميات المستخدمة في كل مرحلة. مخرجات المقرر وطرائق التعليم والتعلم والتقيم: الاهداف المعرفية: الاهداف المعرفية: ١٠ التعرف على الفرق بين المقسرات والمترجمات. ١٠ التعرف على الفرق بين المقسرات والمترجمات. ١٠ معرفة وفهم اسس عمل سياقات كل مرحلة بصورة مستقلة. ١٠ معرفة وفهم بينية التعامل مع الي قيمه مدخلة والتحقق من صحتها. ١٠ فيم أنواع الهيكل البيانية المحذلة والذي عليه يحدث تنوع في طرق تمثيلها. ١٠ معرفة وفهم بينية التعامل مع الي قيمه مدخلة والتحقق من صحتها. ١٠ ألماب الطالب القدرة على كيفية بناء المترجم الخاص بلغة معينه او تطويره او التعديل علية. الأنق التعليم والتعلم والتعليم في القاعات الدراسية. ١٠ الشاء الطالب العربة في القاعات الدراسية. ١٠ الثقاب الطالب باعداد تقارير ممتصرة لبعض المواضيع و تنفيذ الواجبات المغزلية. ١٠ اكتفير الواجبات المومية والشهرية والنهاية الطالب بالمفرر. ١٠ تنفيذ الواجبات اليومية. ١٠ التغذيل اليومية. ١٠ التغذيل الواجبات اليومية. ١٠ الاخداف الوجدانية والفهاية. ١٠ الاخداف الوجدانية والفهاية. ١٠ الاخداف الوجدانية والفهاية. ١٠ التغذيل الوجداف والقيمية. ١٠ الاخداف الوجدافية والنهائية. ١٠ الاخداف الوجدافية والنهائية المعالية والنهائية العالية والنهائية المعالية والنهائية العالية والنهائية العدد العلية والنهائية المعالية والنهائية المعالية	۳.	اسم المقرر	مترجمات
. الساعات الدراسية (الكلي) . اساعة الدراسية (الكلي) . العراق المقرر . العداف المقرر الى تعريف الطالب على المستويات الخاصة بلغات البرمجة. . يهدف المقرر الى تعريف الطالب على المستويات الخاصة بلغات البرمجة. . يهدف هذا المقرر الى تعريف الطالب على المستويات الخاصة بلغات البرمجة. . التعرف على المراحل السنة لهذا المقرر والخوارزميات المستخدمة في كل مرحلة. . التعرف على الاخطاء التي من الممكن ان يرتكبها الميرمج. . التعرف على الاخطاء والتقييم: . الاخداف المعرفية: . التعرف على المراحل المترجمات لكل لغة برمجية. . التعرف على مراحل المترجمات لكل لغة برمجية. . التعرف على مراحل المترجمات الكل لغة برمجية. . معرفة وفهم اسس عمل سيافات كل مرحلة بصورة مستقلة. . معرفة وفهم تنوع البيانات المدخله والذي عليه يحدث تنوع في طرق تمثيلها. . معرفة وفهم كوفية التعامل مع اي قيمه مدخله والتحقق من صحتها. . معرفة وفهم كوفية التعامل مع اي قيمه مدخله والتحقق من صحتها. . الكماب الطالب القدرة على كوفية بناء المترجم الخاص بلغة معينه او تطويره او التعديل علية. . اكماب الطالب القدرة على كوفية بناء المترجم الخاص بلغة معينه او تطويره او التعديل علية. . اكماب الطالب الغيرة في القاعات الدراسية. . الثان النظاب الغيرة في القاعات الدراسية. . الثان النظاب الفرات العلمية في القاعات الدراسية. . الثان الطالب العلاب العالية المساكل التي يواجهها الطالب بالمقرر. . الثفيد الواجبات اليومية والشهرية والنهائية. . الاختيارات اليومية والشهرية والنهائية.	٠٤	أشكال الحضور المتاحة	دوام حضوري (نظري وعملي)
 ٧. تاريخ إحداد هذا الوصف ١ اهداف المقرر ١ يهدف المقرر الى تعريف الطالب على المستويات الخاصة بلغات البرمجة. يهدف هذا المقرر الى تعريف الطالب على المستويات الخاصة بلغات البرمجة. يهدف هذا المقرر المن تعريف الطالب على المستويات الخاصة التنفيذ. التعرف على المراحل السنة لهذا المقرر والخوارز ميات المستخدمة في كل مرحلة. التعرف على الاخطاء التي من الممكن ان يرتكبها الميرمج. الأهداف المعرفية: الأحداف المعرفية: ١. التعرف على مراحل المترجمات لكل لغة برمجية. ٢. التعرف على مراحل المترجمات لكل لغة برمجية. ١. معرفة وفهم اسس عمل سيافات كل مرحلة بصورة مستقلة. ع. معرفة وفهم تلوع البيانات المدخله والذي عليه يحدث تنوع في طرق تمثيلها. معرفة وفهم كوفية التعامل مع أي قيمه مدخله والمتحقق من صحتها. ب. معرفة وفهم كوفية التعامل مع أي قيمه مدخله والمتحقق من صحتها. ب. فهم انواع الهياكل البيانية المستخدمه وتسخيرها المناكد من مدى صحة أي تمثيل لغوي. بالمهاراتية الخاصة بالمقرر: الكساب الطالب الخبرة في اكتفاف الخطأ و عدم الوقوع فيه. طرائق التعليم والتعلم بالشاء المحاضرات العلمية في القاعات الدراسية. طرائق التعليم و انتفاد. ع. حلقات نقاشية لمعالجة المشاكل التي يواجهها الطالب بالمقرر. الأخداف الطالب اليومية. الأخداف الوجدانية والقيمية. الأخداف الوجدانية والقيمية. الأخداف الوجدانية والقيمية. الأخداف الوجدانية والقيمية. 	.0	الفصل / السنة	الفصل الدراسي الأول/ المرحلة الثالثة
اهداف المقرر يهدف هذا المقرر الى تعريف الطالب على المستويات الخاصة بلغات البرمجة. يهدف هذا المقرر الى تعريف الطالب على المستويات الخاصة بلغات البرمجة. من لحظة ضغط زر التنفية وصولا الى ظهور النتائج على شاشة التنفية. التعرف على المراحل الستة لهذا المقرر والخوارزميات المستخدمة في كل مرحلة. التعرف على الاخطاء التي من الممكن ان يرتكبها المبرمج. التعرف على الاخطاء التي من الممكن ان يرتكبها المبرمج. الأهداف المعرفية: الأهداف المعرفية: الانتخاص على الفرق بين المفسرات والمترجمات. التعرف على مراحل المترجمات لكل لغة برمجية. التعرف على مراحل المترجمات لكل لغة برمجية. عرفة وفهم تنوع البيانات المدخله والذي عليه يحدث تنوع في طرق تمثيلها. عرفة وفهم كيفية التعامل مع اي قيمه مدخله والتحقق من صحتها. معرفة وفهم كيفية التعامل مع اي قيمه مدخله والتحقق من صحتها. الأهداف المهاراتية الخاصة بالمقرد. الأهداف المهاراتية الخاصة بالمقرد. الأهداف المهاراتية الخاصة بالمقرد. الأهداف المهاراتية الخاصة بالمقرد. الشاء الطالب الخيرة في اكتشاف الخطأ و عدم الوقوع فيه. الشاء الطالب الخيرة في اكتشاف الخطأ و عدم الوقوع فيه. الشاء الطالب اليابية المستخدم الخاص المواضيع و تنفيذ الواجبات المنزلية. الشاء الطالب باحداد تقارير مختصرة لبعض المواضيع و تنفيذ الواجبات المنزلية. الشغيارات اليومية والشهرية والنهائية. الاختبارات اليومية والشهرية والنهائية. الاختبارات اليومية والشهرية والنهائية. الاختبارات اليومية والشهرية والنهائية.	٠٦	عدد الساعات الدراسية (الكلي)	۲۰ ساعة
يهدف المقرر الى تعريف الطالب على المستوبات الخاصة بلغات البرمجة. يهدف هذا المقرر الى تعريف الطالب على المستوبات المراحل التي يمر يها كل برنامج مكتوب باي لغة برمجية من لحظة ضغط زر التنفيذ وصولا الى ظهور التناجع على شاشة التنفيذ. التعرف على المراحل السنة المهذا المقرر والخوار زميات المستخدمة في كل مرحلة. التعرف على الإخطاء التي من الممكن أن يرتكبها المبرمج. الشعرف على الإخطاء التي من الممكن أن يرتكبها المبرمج. التعرف على المؤرق بين المفسرات والمترجمات. التعرف على مراحل المترجمات لكل لغة برمجية. " معرفة وفهم اسس عمل سياقات كل مرحلة بصورة مستقلة. " معرفة وفهم تنوع البيانت المدخلة والذي عليه يحدث تنوع في طرق تمثيلها. " معرفة وفهم كيفية التعامل مع اي قيمه مدخله والتحقق من صحتها. " معرفة وفهم كيفية التعامل مع اي قيمه مدخله والتحقق من صحتها. " أهم انواع الهياكل البيانيه المستخدمه وتمدخيرها المتاكد من مدى صحة اي تمثيل لغوي. " الأهداف المهاراتية الخاصة بالمقرر: " الكساب الطالب الفرزة في اكتشاف الخطأ و عدم الوقوع فيه. " الكساب الطالب الفيرة في اكتشاف الخطأ و عدم الوقوع فيه. " الشاء المحاسرات الطالب الي بعض المواقع الإلكترونية للإفادة منها. " تكليف الطالب بإعداد تقارير مختصرة لبعض المواضيع و تنفيذ الواجبات المنزلية. " تكليف الطالب بإعداد تقارير مختصرة لبعض المواضيع و تنفيذ الواجبات المنزلية. " تكليف الطالب بإعداد تقارير مختصرة لبعض المواضيع و تنفيذ الواجبات المنزلية. " تكليف الطالب العربية والتهدية. " الكنبارات اليومية والشهرية والنهائية. " الأهداف الوجدائية والقيمية. " الأهداف الوجدائية والقيمية. " الأهداف الوجدائية والقيمية.	٠,٧	تاريخ إعداد هذا الوصف	Y · Y 4/3/10
بيهنف هذا المقرر الى تمكين الطالب من استيعاب المراهل التي يمر بها كل برنامج مكتوب باي لغة برمجية من لحظة ضغط زر التنفيذ وصولا الى ظهور النتائج على شاشة انتفيذ. التعرف على المراحل السنة لهذا المقرر والخوارزميات المستخدمة في كل مرحلة. مخرجات المقرر وطرانق التعليم والتعيم والتعيم: الأهداف المعرفية: التعرف على الفرق بين المفسرات والمترجمات.	٠,٨	اهداف المقرر	
من لحظة ضغط زر التنفيذ وصولا الى ظهور النتانج على شاشة التنفيذ. التعرف على المراحل الستة لهذا المقرر والخوار زميات المستخدمة في كل مرحلة. التعرف على الاخطاء التي من الممكن ان يرتكبها المبرمج. الأهداف المعرفية: الأهداف المعرفية: التعرف على الفرق بين المفسرات والمترجمات. التعرف على مراحل المترجمات لكل لغة برمجية. التعرف على مراحل المترجمات لكل لغة برمجية. المعرفة وفهم اسس عمل سياقات كل مرحلة بصورة مستقلة. معرفة وفهم تنوع البيانات المدخلة والذي عليه يحدث تنوع في طرق تمثيلها. معرفة وفهم كيفية التعلمل مع اي قيمه مدخلة والتحقق من صحتها. المعرفة المهاراتية الخاصة بالمقرر: الأهداف المهاراتية الخاصة بالمقرر: المساب الطالب القدرة على كيفية بناء المترجم الخاص بلغة معينه او تطويره او التعديل علية. المساب الطالب الخيرة في اكتشاف الخطأ و عدم الوقوع فيه. الشاد الطلاب الى بعض المواقع الالكترونية للإفادة منها. الشاد الطلاب الى بعض المواقع الالكترونية للإفادة منها. الشاد الطلاب الي بعض المواقع الالكترونية للإفادة منها. الشاد الطلاب الي بعداد تقارير مختصرة لبعض المواضع و تنفيذ الواجبات المنزلية. الإختبارات اليومية و الشهائية . الأهداف الوجبات اليومية و والشهائية . الإهداف الوجبات اليومية و والنهائية .		• يهدف المقرر الى ته	ريف الطالب على المستويات الخاصة بلغات البرمجة.
التعرف على الاخطاء التي من الممكن ان يرتكبها المبرمج. مخرجات المقرر وطرانق التعليم والتعلم والتقييم:			
كرجات المقرر وطرائق التعليم والتعلم والتعليم: الأهداف المعرفية:		• التعرف على المراد	ل الستة لهذا المقرر والخوارزميات المستخدمة في كل مرحلة.
اً الأهداف المعرفية: 1. التعرف على الغرق بين المفسرات والمترجمات. 2. التعرف على الغرق بين المفسرات والمترجمات. 3. معرفة وفهم اسس عمل سياقات كل مرحلة بصورة مستقلة. 4. معرفة وفهم اسس عمل سياقات كل مرحلة بصورة مستقلة. 5. معرفة وفهم تنوع البيانات المدخله والذي عليه يحدث تنوع في طرق تمثيلها. 6. معرفة وفهم كيفية التعامل مع اي قيمه مدخله والتحقق من صحتها. 7. فهم انواع الهياكل البيانيه المستخدمه وتسخيرها للتاكد من مدى صحة اي تمثيل لغوي. 9. اكساب الطالب القدرة على كيفية بناء المترجم الخاص بلغة معينه او تطويره او التعديل علية. 1. اكساب الطالب الغيرة في اكتشاف الخطأ وعدم الوقوع فيه. 2. الشاء المحاضرات العلمية في القاعات الدراسية. 3. الشاء المحالب الى بعض المواقع الالكترونية للإفادة منها. 4. الشاء الطالب بإعداد تقارير مختصرة لبعض المواضيع و تنفيذ الواجبات المنزلية. 4. تنفيذ الواجبات اليومية والشهرية والنهائية. 5. الاختبارات اليومية والشهرية والنهائية.		• التعرف على الاخطا	ء التي من الممكن ان يرتكبها المبرمج.
التعرف على الفرق بين المفسرات والمترجمات. التعرف على مراحل المترجمات لكل لغة برمجية. معرفة وفهم اسس عمل سياقات كل مرحلة بصورة مستقلة. معرفة وفهم تنوع البيانات المدخله والذي عليه يحدث تنوع في طرق تمثيلها. معرفة وفهم كيفية التعامل مع اي قيمه مدخله والتحقق من صحتها. معرفة وفهم كيفية التعامل مع اي قيمه مدخله والتحقق من صحتها. أفهم انواع الهياكل البيانيه المستخدمه وتسخيرها للتاكد من مدى صحة اي تمثيل لغوي. الأهداف المهاراتية الخاصة بالمقرر: اكساب الطالب القدرة على كيفية بناء المترجم الخاص بلغة معينه او تطويره او التعديل علية. الساب الطالب الخبرة في اكتشاف الخطأ وعدم الوقوع فيه. القاء المحاضرات العلمية في القاعات الدراسية. ارشاد الطلاب الى بعض المواقع الالكترونية للإفادة منها. ارشاد الطلاب باعداد تقارير مختصرة لبعض المواضيع و تنفيذ الواجبات المنزلية. علمات اليومية والشهرية والنهائية. الاختبارات اليومية والشهرية والنهائية. الإهداف الوجدانية والقيمية. الأهداف الوجدانية والقيمية.	٠٩	مخرجات المقرر وطرائق التعليم والتعلم و	التقييم:
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 ٢. الاختبارات اليومية والشهرية والنهائية. ج- الأهداف الوجدائية والقيمية. 		طرائق التقييم	
ج- الأهداف الوجدانية والقيمية.			
		٢. الاختبارات الي	ومية والشهرية والنهانية.
١. تشجيع الطلاب على الاستفادة من المقرر من خلال الايمان بأهمية المقرر في العملية التعليمية وفي		ج- الأهداف الوجدانية و	القيمية.
		١. تشجيع الطلام	، على الاستفادة من المقرر من خلال الايمان بأهمية المقرر في العملية التعليمية وفي

Field Specialization In a way General.

- Enhancement Cooperation Between Students From During 2 Implementation Duties The process.
 - . Development Energies The idea And creativity I have The request From During 3 Implement them To different Duties.
- . Encouragement The request And raise spirit 4
 Competition Among them.

Ways Education And learning

- . Giving Activities group Importance From During Customize Degrees On Activities 1 group
 - . administration The lecture On A form that works The 2 student He feels Importantly Time.
 - . Encouragement The student On Submission Work Creativity In Specialization 3
 Complies with standards Quality In Service The community.

Ways Evaluation

- Commitment In attendance For a hall The lesson And finish Business The taxpayer
 With itDuties and reports (Within Timings
 Specific.
- . Discussion And participation Effective In Hall 2 The lesson.
- . It is considered Tests Now, The quarterly And the final About Commitment 3
 And collection Cognitive And the skills.

Skills Public And qualification movable) Skills Others related Capable Employment And development Personal(.

- Dr

- . Development Ability The student On Dealing With 1 Means Technology.
 - . Development Ability The student On Dealing 2 With Internet.
 - . Development Ability The student is on Learn Knock And methods Development 3
 Personal Why? After The decision.
- . Development Ability The student On Dialogue 4 And discussion.
 - . Development spirit Creativity And perseverance And search 5 About What's new in Field His work.

		Structure The d	ecision:		. 10
Method Evaluation	Metho d Educat ion	Name Unit/or Topic	Outputs Learning required	Hours	The week
Questions General And discussion	Look	Concepts General	Introduction to Translations And the interpretations And carriers And the teams Between her	4	The first
Questions General A discussion or an exam that I	Look	Concepts General	How Building Table For variables And store Information about them.	4	The second
Questions General And discussion	Look	Stages of the translator	Explanation Short About Phases The translator The six.	4	Third

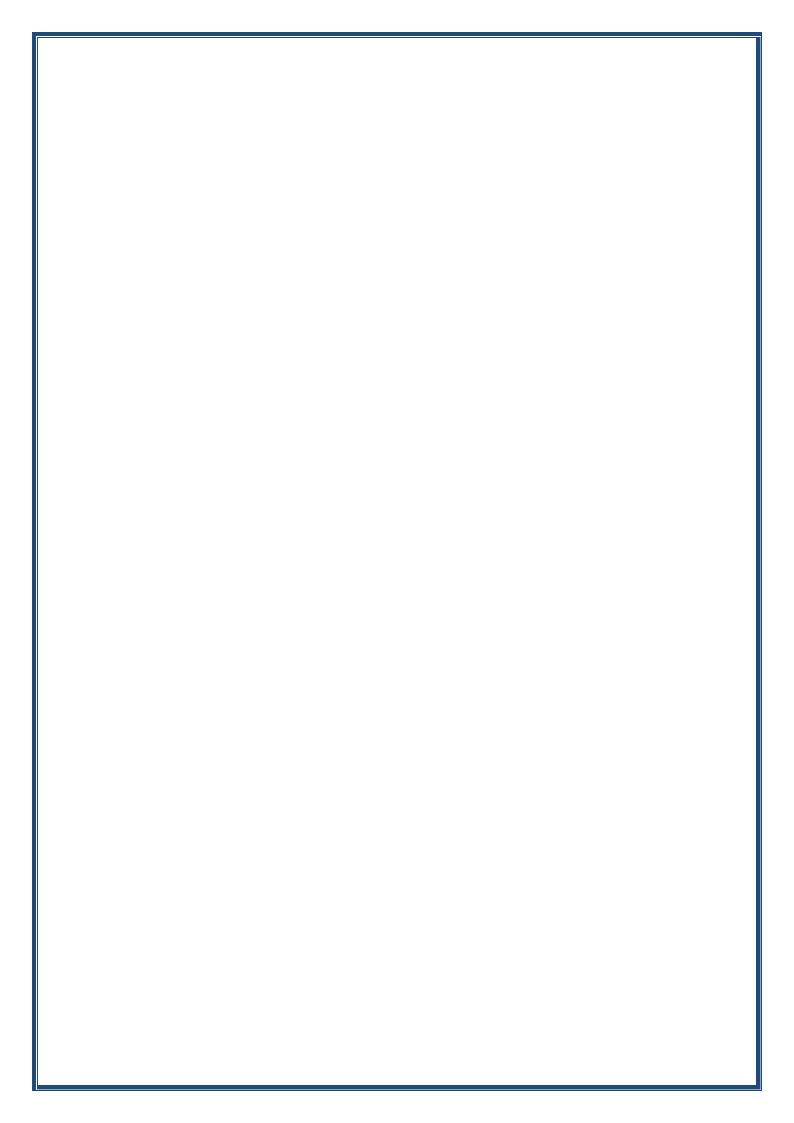
Exam I am	Look	Phase The first From The translator	Develop Analysis Vocabulary.	4	Fourth
General questions And discussion or Exam I am	Look	Regular expressions	Definition of expressions System	4	Fifth
Discussion	Look	Terms used With Stages of the translator	The difference between ,pattern, token lexmes	4	Sixth
Exam Monthly	Look		The exam The first	4	Seventh
Duties group	Look	Phase The second In The translator	Clarification Mechanism Work Develop Analysis The rules	4	Eighth
Questions General	Look	Algorithms used in the basal phase	Explaining a summary of the most important algorithms used In Phase The rules	4	Ninth
Duties	Look	Algorithmand first follow	Clarification Mechanism Work Algorithm In detail With Example	4	Tenth
Questions General	Look	Algorithms The parsing From top to bottom	Analysis From Down To Above: Identify one of the analysis algorithms from Down To Above Which Principle Her work	4	Elev enth

		Structure The d	ecision:		. 10
Method Evaluation	Metho d Educat ion	Name Unit/or Topic	Outputs Learning required	Hours	The week
			Yes Check The phrase input From Right To Left. LL(1)		
Discussion	Look	The rules Alhurra For context and transportatio n planning	Explain how to work with free rules For context And build Plan Its own transportation	4	Twe lfth
Exam I am	Look	ase Third And the fourth From the translator	Develop Analysis Grammar And generation The code	4	Thi rtee nth
Duties group	Look	Phase Fifth And the sixth From the translator	Make sure Example The code And generate the final program In language God.	4	Fourt h Ten
Exam Monthly	Look		Exam A month Second	4	Fifth Ten

Structure Infrastructure		11
 Basics of compiler design Torben Egidius Mogensen(2002). Compilers: principles, techniques, and tools. tools Alfred V.A Jeffrey D. Ullman(1998). 	Prescribed books required .	1
	References Main(Sources) .	2
	Books And references Which Recommended With it), Magazines Scientific ,Reports(a
Locations Scientific Sober	,References electronic Locations The Internet	В

Plan Development The decision Academic	. 12
• Addition or Delete Vocabulary For the curricula Within Development	
Scientific obtained in Every decision And in proportion No Exceeds 10%	
• Keeping up Development The result In ways and means Miscellaneous For	
the decision	

إ. المؤسسة التعليمية المتعليمية إصاد كله على المساوب وتكنولوجها المعلومات المساوب الم				
 إ. أسم المقرر المتأخة (والم حضوري (نظري) و. الفصل / السنة (الكني) ب عبد السنة (الكني) ب عبد السنة (الكني) ب عبد السنة (الكني) ب ساعة (English (الكني) ب ساعة (English (الكني)) ب ساعة (الكني) ب ساعة (الكني) ب ساعة (الكني) ب ساعة (الكني) ب المعافرة العالمة (الكني) الإسلامات المقرر المعافرة (الكنية المعالمة المعالمة المعالمة المعالمة المعالمة المعالمة المعالمة (الكنية المعالمة المعالمة المعالمة المعالمة (الكنية المعالمة المعالمة المعالمة المعالمة (الكنية المعالمة المعالمة المعالمة المعالمة المعالمة (الكنية المعالمة المعالمة	جامعة واسط/ كلية علوم الحاسوب وتكنولوجيا المعلومات		المؤسسة التعليمية	٠.١
المشكل العصور المتاحة المساعات الدراسية (الكلي) 7 ساعة المعادة الدراسية (الكلي) 8 حد الساعات الدراسية (الكلي) 9 تاريخ إحداد هذا الوصف (الكلي) 10 الفراق القراء المعادة الأصور عن فرص المعادة والمعادة المعادة والمعادة المعادة والمعادة المعادة والمعادة والمعادة المعادة والمعادة وا	قسم علوم الحاسوب		القسم الجامعي / المركز	
	إنكليزي 3		اسم المقرر	٠.٣
	, , , , ,		أشكال الحضور المتاحة	٠.٤
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	۳۰ ساعة	(الكلي)		٦.
تعظم اساسيات مهارة الكتابة القدرة على الأصغاء فهم المعاني واضافة مفردات جديدة تعظم التكلم والمنافشة باستخدام مفردات اللغة مخرجات المقرر وطرائق التعليم والتعليم والتعييم: الأهداف المعرفية: الأهداف المعرفية: الأهداف المعرفية: القدرة على قراءة نصوص اللغة بشكل صحيح القدرة على قراءة نصوص اللغة بشكل صحيح القدرة على وصف مكونات اي موضوع القدرة على وصف مكونات اي موضوع القدرة على وصف مخططات بشكل فقرات مترابطة المداوف المهاراتية الخاصة بالمغرر: الأهداف المهاراتية الخاصة بالمغرر: الأهداف المهاراتية الخاصة بالمغرر: الأهداف المهاراتية على المناقشة باستخدام مفردات اللغة المناف وانجازها ضمن مدة الدارة المحاضرة على نحو يشعر بأهمية الوقت. ما تكليف الطالب ببعض الانشطة والواجبات الجماعية. ما تكليف الطالب ببعض الانشطة والواجبات الجماعية. ما المشاركة الفاعلة في قاعة الدرس دليل النزام الطالب و تحمله المسؤولية. ما تعبر الاختبارات القصلية والنهائية عن الالتزام والتحصيل المعرفي والمهاري. ما الأهداف الوجدائية والقيمية.			_	
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تعظم اساسيات مهارة الكتابة القدرة على الأصغاء فهم المعاني واضافة مفردات جديدة تعظم التكلم والمنافشة باستخدام مفردات اللغة مخرجات المقرر وطرائق التعليم والتعليم والتعييم: الأهداف المعرفية: الأهداف المعرفية: الأهداف المعرفية: القدرة على قراءة نصوص اللغة بشكل صحيح القدرة على قراءة نصوص اللغة بشكل صحيح القدرة على وصف مكونات اي موضوع القدرة على وصف مكونات اي موضوع القدرة على وصف مخططات بشكل فقرات مترابطة المداوف المهاراتية الخاصة بالمغرر: الأهداف المهاراتية الخاصة بالمغرر: الأهداف المهاراتية الخاصة بالمغرر: الأهداف المهاراتية على المناقشة باستخدام مفردات اللغة المناف وانجازها ضمن مدة الدارة المحاضرة على نحو يشعر بأهمية الوقت. ما تكليف الطالب ببعض الانشطة والواجبات الجماعية. ما تكليف الطالب ببعض الانشطة والواجبات الجماعية. ما المشاركة الفاعلة في قاعة الدرس دليل النزام الطالب و تحمله المسؤولية. ما تعبر الاختبارات القصلية والنهائية عن الالتزام والتحصيل المعرفي والمهاري. ما الأهداف الوجدائية والقيمية.	الحص المعور و محرجات النظم المتوقعة من الطالب لحقيقها مبر ها عما إذا خان قد حقق ية للغة الإنكليرية	معنصياً لا هم حص ، المهاراتِ الأساب	وصف المقرر هذا إيجارا •	يوور
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الأهداف المعرفية: القدرة على قراءة نصوص اللغة بشكل صحيح . القدرة على قراءة نصوص اللغة بشكل صحيح . القدرة على كتابة فقرات بشكل مترابط . القدرة على وصف مكونات اي موضوع . القدرة على وصف مخططات بشكل فقرات مترابطة . القدرة على وصف مخططات بشكل فقرات مترابطة . الأهداف المهاراتية الخاصة بالمقرر: . اكتساب المهارة على المناقشة باستخدام مفردات اللغة . انتمية مهارات الطالب للعمل ضمن فريق وفهم الواجبات الخاصة وانجازها ضمن مدة . الدارة المحاضرة على نحو يشعر بأهمية الوقت. . الدارة المحاضرة على نحو يشعر بأهمية الوقت. . تكليف الطالب ببعض الانشطة والواجبات الجماعية. تخصيص نسبة من الدرجة للأنشطة الجماعية. . المشاركة الفاعلة في قاعة الدرس دليل التزام الطالب وتحمله المسؤولية. . الانتزام بالموعد المحدد في تقديم الواجبات والبحوث. . الاعتبارات الفصلية والنهانية عن الالتزام والتحصيل المعرفي والمهاري. . الأهداف الوجدائية والقيمية.	باستخدام مفردات اللغة	م التكلم والمناقشة	• تعلم	
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القدرة على كتابة فقرات بشكل مترابط القدرة على وصف مكونات اي موضوع القدرة على وصف مخططات بشكل فقرات مترابطة الغداف المهاراتية الخاصة بالمقرر: الاهداف المهاراتية الخاصة بالمقرر: اكتساب المهارة على المناقشة باستخدام مفردات اللغة تنمية مهارات الطالب للعمل ضمن فريق وفهم الواجبات الخاصة وانجازها ضمن مدة طرائق التعليم والتعلم الدارة المحاضرة على نحو يشعر بأهمية الوقت. تكليف الطالب ببعض الأنشطة والواجبات الجماعية. تخصيص نسبة من الدرجة للأنشطة الجماعية. طرائق التقييم المشاركة الفاعلة في قاعة الدرس دليل التزام الطالب وتحمله المسؤولية. الالتزام بالموحد المحدد في تقديم الواجبات والبحوث. تعير الاختبارات الفصلية والنهائية عن الالتزام والتحصيل المعرفي والمهاري. "" تعير الاختبارات الفصلية والنهائية عن الالتزام والتحصيل المعرفي والمهاري. """ الأهداف الوجدانية والقيمية.		داف المعرفية:	أ_ الأهد	
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.؛ القدرة على وصف مخططات بشكل فقرات مترابطة . الأهداف المهاراتية الخاصة بالمقرر: . اكتساب المهارة على المناقشة باستخدام مفردات اللغة . تنمية مهارات الطالب للعمل ضمن فريق وفهم الواجبات الخاصة وانجازها ضمن مدة طرائق التعليم والتعلم . ادارة المحاضرة على نحو يشعر بأهمية الوقت. . تكليف الطالب ببعض الأنشطة والواجبات الجماعية. . تخصيص نسبة من الدرجة للأنشطة الجماعية. طرائق التقييم . المشاركة الفاعلة في قاعة الدرس دليل التزام الطالب وتحمله المسؤولية. . الالتزام بالموعد المحدد في تقديم الواجبات والبحوث. . تعبر الاختبارات الفصلية والنهائية عن الالتزام والتحصيل المعرفي والمهاري. . الأهداف الوجدانية والقيمية.	بة فقرات بشكل مترابط	القدرة على كتاب	۲.	
الأهداف المهاراتية الخاصة بالمقرر: اكتساب المهارة على المناقشة باستخدام مفردات اللغة على المناقشة باستخدام مفردات اللغة النمية مهارات الطالب للعمل ضمن فريق وفهم الواجبات الخاصة وانجازها ضمن مدة طرائق التعليم والتعلم الدارة المحاضرة على نحو يشعر بأهمية الوقت. تكليف الطالب ببعض الأنشطة والواجبات الجماعية. تخصيص نسبة من الدرجة للأنشطة الجماعية. طرائق التقييم المشاركة الفاعلة في قاعة الدرس دليل التزام الطالب وتحمله المسؤولية. الالتزام بالموعد المحدد في تقديم الواجبات والبحوث. تعبر الاختبارات الفصلية والنهائية عن الالتزام والمهاري. الأهداف الوجدانية والقيمية.	<u> </u>		٣.	
الاتساب المهارة على المناقشة باستخدام مفردات اللغة تنمية مهارات الطالب للعمل ضمن فريق وفهم الواجبات الخاصة وانجازها ضمن مدة طرائق التعليم والتعلم الدارة المحاضرة على نحو يشعر بأهمية الوقت. تكليف الطالب ببعض الأنشطة والواجبات الجماعية. تخصيص نسبة من الدرجة للأنشطة الجماعية. المشاركة الفاعلة في قاعة الدرس دليل التزام الطالب وتحمله المسؤولية. الالتزام بالموعد المحدد في تقديم الواجبات والبحوث. تعبر الاختبارات الفصلية والنهائية عن الالتزام والتحصيل المعرفي والمهاري. الأهداف الوجدانية والقيمية.			<u> </u>	
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طرانق التعليم والتعلم ا دارة المحاضرة على نحو يشعر بأهمية الوقت. ت تكليف الطالب ببعض الأنشطة والواجبات الجماعية. " تخصيص نسبة من الدرجة للأنشطة الجماعية. طرانق التقييم ا المشاركة الفاعلة في قاعة الدرس دليل التزام الطالب وتحمله المسؤولية. " الالتزام بالموعد المحدد في تقديم الواجبات والبحوث. " تعبر الاختبارات الفصلية والنهائية عن الالتزام والمعرفي والمهاري. " الأهداف الوجدائية والقيمية.	ة على المناقشة باستخدام مفردات اللغة			
. الدارة المحاضرة على نحو يشعر بأهمية الوقت تكليف الطالب ببعض الأنشطة والواجبات الجماعية تخصيص نسبة من الدرجة للأنشطة الجماعية. طرائق التقييم . المشاركة الفاعلة في قاعة الدرس دليل التزام الطالب وتحمله المسؤولية الالتزام بالموعد المحدد في تقديم الواجبات والبحوث تعبر الاختبارات الفصلية والنهائية عن الالتزام والتحصيل المعرفي والمهاري الأهداف الوجدانية والقيمية.	لطالب للعمل ضمن فريق وفهم الواجبات الخاصة وانجازها ضمن مدة	تنمية مهارات ا	۲.	
تكليف الطالب ببعض الأنشطة والواجبات الجماعية. تخصيص نسبة من الدرجة للأنشطة الجماعية. طرائق التقييم المشاركة الفاعلة في قاعة الدرس دليل التزام الطالب وتحمله المسؤولية. الالتزام بالموعد المحدد في تقديم الواجبات والبحوث. تعبر الاختبارات الفصلية والنهائية عن الالتزام والتحصيل المعرفي والمهاري. الأهداف الوجدائية والقيمية.			طرائق التعليم والتعلم	
. تخصيص نسبة من الدرجة للأنشطة الجماعية. طرائق التقييم 1. المشاركة الفاعلة في قاعة الدرس دليل التزام الطالب وتحمله المسؤولية. 2. الالتزام بالموعد المحدد في تقديم الواجبات والبحوث. 3. تعبر الاختبارات الفصلية والنهائية عن الالتزام والتحصيل المعرفي والمهاري. 3. الأهداف الوجدائية والقيمية.	ة على نحو يشعر بأهمية الوقت.	إدارة المحاضر	1.	
طرائق التقييم 1. المشاركة الفاعلة في قاعة الدرس دليل التزام الطالب وتحمله المسؤولية. 2. الالتزام بالموعد المحدد في تقديم الواجبات والبحوث. 3. تعبر الاختبارات الفصلية والنهائية عن الالتزام والتحصيل المعرفي والمهاري. 3. الأهداف الوجدائية والقيمية.	بعض الأنشطة والواجبات الجماعية.	تكليف الطالب ب	۲.	
. المشاركة الفاعلة في قاعة الدرس دليل التزام الطالب وتحمله المسؤولية. 7. الالتزام بالموعد المحدد في تقديم الواجبات والبحوث. 7. تعبر الاختبارات الفصلية والنهائية عن الالتزام والتحصيل المعرفي والمهاري. 7- الأهداف الوجدانية والقيمية.	من الدرجة للأنشطة الجماعية.	تخصيص نسبة	۳.	
 ٢. الالتزام بالموعد المحدد في تقديم الواجبات والبحوث. ٣. تعبر الاختبارات الفصلية والنهائية عن الالتزام والتحصيل المعرفي والمهاري. ج- الأهداف الوجدائية والقيمية. 			طرائق التقييم	
. تعبر الأختبارات الفصلية و النهائية عن الالتزام والتحصيل المعرفي والمهاري. ج- الأهداف الوجدانية والقيمية.	لة في قاعة الدرس دليل التزام الطالب وتحمله المسؤولية.	المشاركة الفاع	1.	
ج- الأهداف الوجدانية والقيمية.	, <u>"</u>	<u>'</u>	۲.	
	، الفصلية والنهائية عن الالتزام والتحصيل المعرفي والمهاري.	تعبر الاختبارات	٣.	
١٠ تطوير قدرة الطالب للعمل على أداء الواجبات وتسليمها في الموعد المقرر.	قيمية.	داف الوجدانية وال	ج- الأهد	
	الب للعمل على أداء الواجبات وتسليمها في الموعد المقرر.	تطوير قدرة الط	١.	



Development Ability The student On Dialogue And discussion 2	
Ways Education And learning	
Giving activities group Importance From During Customize Degrees On . 1 Activities The group.	
administration The lecture On Shape It works The student He feels Importantly Time.	
Encouraging the student On Submission Work Creativity In Specialization . 3 Keep up Standards Quality In Service The community.	
Ways Evaluation	
Commitment In attendance For a hall The lesson And finish Business The taxpayer With itDuties and reports (Within Timings Specific.	
Discussion And participation Effective In Hall The lesson 2	
Method of interrogation And that About A way Show Questions Related With .3 the material Scientific In The hall Academic.	
Dr- Skills Public And qualification movable) Skills Others related Capable Employment And development Personal(.	
This Article I will Build In The student Capacity On Thinking And communication Between him And between His colleagues others In Same The subject and other materials, and this is very important to improve the students' relationship with each other. The student will also develop his ability to think and Use Language English In Communication With others Whether It was That Inside His surroundings or In Various	
End The world.	

Structure The decision:					. 10
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	Hours	The week
Questions General And	Look	Getting to Know you		2	The first
discussio n					
Questions General And discussi	Look	The way. way we live		2	The second
on Or an exam I am					
Questions General And discussio	Look	It all went wrong		2	Third
Exam I am	Look	Let's go. go shopping. shopping		2	Fourth
Questio	Look	What do. do you want to do?		2	Fifth
Genera I and discuss ion					

Questions General	Look	Tell me! What's it like?	2	Sixth
And Discussion				
Questions General	Look	Case studies or exercises: test, revision, more examples	2	Seventh
Group	Look	Present Perfect, Fame	2	Eighth
assign ments				
Questions General	Look	Do's and don'ts	2	Ninth
Questions General	Look	Going Places (Time clauses)	2	Tenth
Questions General	Look	Scared to death (Verb Patterns)	2	1st Ten
Discuss ion and	Look	Things that Changed the world	2	Twe lfth
examin ation I am				
Questions General	Look	Earning a living	2	Third Ten
Duties group	Look	Family ties	2	Fourt h Ten
Discussion	Look	Case studies or exercises: Test, exercises, revision.	2	Fiftee nth

Structure Infrastructure			11
Soars & John, (2006). New Headway plus (Pre- Intermediate)Oxford University Press.	Prescribed books required	.1	
	References Main(Sources)	. 2	_
	Books And references Which Recommended	- a	
	With it		
), Magazines Scientific ,Reports(
Locations Electronic	,References electronic	- B	
Specialized	Locations The Internet		

12

- Addition or Delete Vocabulary For the curricula Within Development The result In Every decision And in proportion Do not exceed.% 10
- Keeping up Development The result In ways and means Miscellaneous For the decision Addition Everything He New It is useful for the student To acquire Skills New And keep up Development The

result.

Description of the course: of intelligence Artificial Principles Intelligence) (Principle of Artificial

University of Wasit/ College Science Computer And	The		•
technology Information	institution		
Educational			
Section Science Computer	Sectio	n	•
	University/ The	e	
	cente	er	
of intelligence Artificial Principles	Name of the rap	porteur	•
work hours My presenceMy view And practical(Shape	es	•
	Attendanc	-	
	availabl	e	
Chapter Academic the first/The stage Third	Chapter/		•
	year		
An hour 60	Number		•
	Academic(total)	
0 1/3/4 202	<u>I</u>		•
	This Description	on	
Goals The decision			•
Aims This The decision To Definition Students Really Intellige	ence Artificial	•	
And his relationship Knowingly Accounts And in a way Regio	nal And		
Process			
Definition The student With		•	
algorithms Intelligence Artificial.			
Explanation And clarification Challenges		•	
Which Confront us When building Systems			
Smart.	_		
It gives Models And an example About The organization I		•	
And What is it? Technologies Basic used In This The organ	nization.		
Outputs The decision And ways			
Education And learning And			
evaluation:			
Objectives Knowledge:		- a	
. Recognition On Understood intelligence, How? We disting			
Behavior Smart And its value, And what is it? Intelligence And	rtificial.		
	2		
. ?Recognition On date Intelligence Artificial And what is it			
. ?Recognition On date Intelligence Artificial And what is it Rights Knowledge The other associated With . Recognition On Understood A rule knowledge, Its 3	ı it.		

. Recognition On Field Solution The problemspace. space .state . Recognition On the road Search 5strategies search And especially All Knock And when? It is done Use it. **Objectives Marathi Private** - B **By decision:** . Iksaab The student Skill Choose The way appropriate To represent **Knowledge Private By applying Certain And According to Size** This Knowledge(Information) And Its nature And its components And a way The connection Between her. . Development Skills The student In Choose The way Example To represent graph space. space stateAccording to Standards Certain Related Naturally The issue Or the problem What is meant? Solve it. • Iksaab The student Skill Choose The way Example To search **3**search And According to Standards Certain. **Ways Education And learning** . Meeting Lectures Scientific In Halls Academic And use the 1show) (Data For the purpose of a statement Ideas Main for the topic. . Guidance Students To Some Locations Electronic For benefit From her. . Cost The student By implementing A group From Programs In 3 Laboratories The process.

. Cost The student Prepared Reports Brief For some Topics And Implementation Duties Household.

- **Ways Evaluation**
 - . Implementation Duties Daily 1.
 - . Tests Daily And monthly And the final 2.

Objectives Existentialism And value.		-C
Enhancement Learning About The student is from During Subtract a group Solutions For the same The problem And Discuss it Nope On Only one And	.1	
Select Method The appropriate solution for the problem proposed With Stop On Disadvantages Really Roads.		
Encouragement The request On Choose Correct from During Subtract Solutions It contains Errors And Select This Errors After Discussion And Treating it.	. 2	
Enhancement Possibilities The request From During Subtract Questions Oral Exceptional You need To Answers Exceptional Where you are Self Heavy Specific On the one hand Evaluation And Grades What? Be Hoof Strong To participate The request And Competition And Competition On Solve it.	.3	
Ways Education And learning		
Giving activities group Importance From During Customize Degrees On Activities The group.	.1	
administration The lecture On Shape It works The student He feels Importantly Time.	. 2	
Encouraging the student On Submission Work Creativity In Specialization Keep up Standards Quality In Service The community.	.3	
Ways Evaluation		
Commitment In attendance For a hall The lesson And finish Business The taxpayer With itDuties and reports (Within Timings Specific.	.1	
Discussion And participation Effective In Hall The lesson.	. 2	
Skills Public And qualification movable) Skills Others related Capable Employment And development Personal		- Dr
Skill Education Self And Contact.	.1	
Skill administration Time And Data.	. 2	
Management skill Individuals And Motivate them.	.3	
Skill Work Within A group.	. 4	

Structure The d	lecision:				. 10
Method Evaluation	Metho d Educat ion	Name Unit/or Topic	Outputs Learning required	Hours	The week
Questio ns Genera I and discuss ion	Look	Introduction of AI	Definition Intelligence Industrial and application fields	4	The first
General questions and discussion or Exam I am	Look	Acknowledgme nt representation	Review of methods Acting Knowledge	4	The second
Questio ns Genera I and	Look	Logical representation	fication Method Acting logical to know	4	Third

discuss ion					
Exam I am	Look	Resolution proof procedure	Prosager Verify From the accuracy of the solution	4	Fourth
General questions and discussion or Exam I am	Look	Examples of Acknowledg ment !	Explaining examples of each type From Types Acting Knowledge	4	Fifth
Discussion	Look	Statespace	Get to know Field Solution The problem	4	Sixth
Questions General	Look	Search algorithm	Reviewing search algorithms to solve the problem and clarifyingsearch algorithms blind first bridth first, (depth search)	4	Seventh
Duties group	Look	Heuristic search	Explanation of inherited search algorithms In detail With Examplesbest, climbing (hill search) first	4	Eighth

Structure The decision:					. 10
Method Evaluation	Metho d Educat ion	Name Unit/or Topic	Outputs Learning required	Hours	The week
Exam Monthly	Look		Exam Monthly	4	Ninth
Duties	Look	A_ search algorithm	Explanation Algorithm Search With Example	4	Tenth
Questions General	Look	A* _algorithm	Explanation Algorithm With Examples And the characteristics Private With it	4	1st Ten
Discussion	Look	Expert system	Definition Systems The expert And its applications And its components	4	The secon d
Exam I am	Look	Acknowledgme nt acquisition	Clarification Knock Obtain Knowledge Using (data driven, goal driven)	4	Thi rtee nth
Duties group	Look	Introduction of neural network	Definition of neural networks and their components And its importance And its types	4	Fou rtee nth
obligatory solution	Look	Design of neural network	arification How Design A neural network	4	Fiftee nth

Structure Infrastructure			
Elin Rich, "Artificial "Intelligence", 1991	Prescribed books required	.1	
George F. Luger, "Artificial Intelligence Structures and Strategies for Complex Problem Solving", Pearson Eduction Asia (Singapore), 6/E, 2009	References Main(Sources)	. 2	
Amit Konar, "Artificial Intelligence and Soft Computing, Behavior and Cognitive Modeling of the Human "Brain", CRC Press, 2000	Books And references Which Recommended With it), Magazines Scientific ,Reports(- a	
Locations Scientific Sober	,References electronic Locations The Internet	- B	

Plan Development The decision Academic • Addition or Delete items For the curricula Within Development Scientific obtained in Every decision And in proportion No Exceeds 10% • Keeping up Development Achieved through methods and means Miscellaneous For the decision

Description The decision: Networks Computer (1)) Computer (1) (Networks

University of Wasit/ College Science Computer And technology Information	The institution Educational	.1
Section Science Computer	Section University/ The center	. 2
Networks Computer (1)	Name of the rapporteur	.3
(Theoretical and practical) Attendance time	Shapes Attendance available	. 4
Chapter Academic The first/The stage The third	Chapter/ year	.5
An hour 60	Number Hours Academic(total)	. 6
0 1/3/4 202	Date Preparation This Description	.7
Goals The decision		. 8
Aims This Course To Supply Students At a glance General Abo And basics Communications Data And networks Computer.	out Concepts •	
Aims The decision To Definition The student In layers Network.	•	
Aims The decision To Definition Differently Types Networ Wireless And Wireless And Its protoco		
Aims The decision To Definition The student With concepts And Technologies Private With networks.	•	
Outputs The decision And ways Education And learning And evaluation:		.9

Objectives Knowledge:		- a
Enable The student From Knowledge	.1	
Basics Networks The computer.		
Enable The student From Knowledge Basics And	. 2	
requirements Building Network Computer.	<u> </u>	
Enable The student From Knowledge Jobs Basic Which	. 3	
Availability Networks The computer.		
Provide the student With	. 4	
concepts About Programming		
Distributors.		
Building Networks Wired And wireless.	.5	
Objectives Marathi Private		- B
By decision:		
Earning the student Skills Private Build And	. 1	
Development Networks And How Its maintenance.		
Development Skill The student In Thinking and	. 2	
Analysis and Solution Problems And Cash.		
Ways Education And learning		
Giving lectures Scientific In Halls Academic And use theshow) (Data	. 1	
For the purpose of a statement Ideas		
Main for the topic.		
Guidance Students To Some Locations	. 2	
Electronic For benefit From her.		
Student cost Prepared Reports Brief For some Topics And	. 3	
Execution of duties Household.		
Discussion sessions To be treated Problems	. 4	
Which He faces it The student By decision.		
Ways Evaluation		
Implementation Duties Daily.	.1	
Tests Daily And monthly And	. 2	
the final.		
Participation In Hall The lesson.	. 3	

. Maintenance On Attendance Objectives Existentialism And value. **-C** . Encouragement Students On Benefit From decided by During Faith Importantly The 1 decision In The process Educational And in Field Specialization In a way General. . Enhancement Possibilities The student In 2 Thinking The logical one. . Development Energies The idea And creativity From During Enhancement Ability Search and Survey And Analysis And Deduction. . Encouragement The request And raise spirit Competition Among them. **Ways Education And learning** . Giving Activities group Importance From During Customize Degrees On Activities The group. . administration Lecture on Like Make it happen The student He feels Importantly Time. **Ways Evaluation** . Participation Effective In Hall The lesson Evidence Commitment The student And you carry it Responsibility. . Commitment On time specified In Submission Duties And research. . It is considered Tests Now, The quarterly And the final About Commitment 3

Skills Public And qualification movable) Skills Others related Capable	
Employment And development Personal(.	

And collection Cognitive And the skills.

- Dr

. Development Ability The student On Dealing With Means Technology.

. Development Ability The student On Dealing With Internet.

. Development Ability The student is on Learn Knock And methods Development Personal Why? After The decision.

. Development Ability The student On Dialogue And discussion.

. Development spirit Creativity And perseverance And search About What's new in Field His work.

Structure The decision:				. 10	
Method Evaluation	Metho d Educat ion	Name Unit/ or Topic	Outputs Learning required	Hours	The week
iscussion/ General questions	Look	Introduction in Components Communications Ita, Acting Data data flow	General concepts About Communications , Data	2	The first
Discussion/ Questions General	Look	Processing , Distributed Standards Network	General concepts About Processing Distributed Standards Network,	2	The second

iscussion/ General questions	Look	Installation Material physical structure) , the sender , The future , The carrier hierarchy(Introduction in Installation Material Physical structure(, (sender, receiver , The carrier hierarchy(2	Third
Exam I am	Look	physical layer media Directed And the destination: Waves Wireless radios, ovens Microwave, Cable infrared twisted ,double red coaxial cable Cable Fibers Visually	layer Material Directed and directed media: waves Radio Wireless , Microwave ovens, duplex cable Scheduled X-rays Under Red , coaxial cable, fiber optic cable	2	Fourth
iscussion/ General questions	Look	Types Networks) LAN, ,WAN, MAN (VAN	Types Networks) LAN , MAN VAN). ,WAN ,	2	Fifth
Discussion/ Questions General	Look	Topology Networks) , Bus , ?star , Ring Why (Network topology), Bus A star , ?Ring, Why,(2	Sixth

Structure The d	1				. 10
Method Evaluation	Metho d Educat ion	Name Unit/or Topic	Outputs Learning required	Hours	The week
iscussion/ General questions	Look	Network models: - Layers Networks) TC model/ TCP 4, layers(- Layers NetworksModel OSI Layers 7,(Models Network: - Layers Networks Model TCP TC / Layers 4 ,(-Layers NetworksModel OSI layers 7 ,(2	Seventh
Duties group	Look	Layers Networks: Protocols: ARP), ,TELNET ,FTP (DNS	Network layers: Protocols: ,TELNET ,FTP ,ARP) (DNS	2	Eighth
iscussion/ General questions	Look	Layers Networks: Protocols: UDP, , RPC,NFS	Network layers: Protocols: , RPC ,NFS ,UDP	2	Ninth
Exam Monthly	Look	Layers Network: Protocols: SMTP, ,HTTP, TFTP WAIS	Layers Network: Protocols: ,HTTP ,TFTP , SMTP WAIS	2	Tenth
iscussion/ General questions	Look	AddressesIPV4, Addresses IP6 - Types Addresses InIP4 network	AddressesIPV4 , IP6 addresses - Types Addresses In NetworkIP4	2	Elev enth
iscussion/ General questions	Look	Devices Networks) , Routers Keys, Bridges , Axis repeated(Network devices(, (routers, switches Bridges , Axis , duplicate	2	Twe lfth
iscussion/ General questions	Look	- Multiple Sending FDM), Reveal - (WDM, TDM Errors And correct it	- Multiple Sending FDM) , Reveal - (WDM ,TDM Errors And correct it	2	Thi rtee nth
Duties group	Look	- Addressing The region) Space ddress, Address IPV4 Addressing (IPV6 - Address Dynamic Capable, For guidance And other than that Capable For guidance	-Logical) addressing address space), AddressIPV4, Addressing(IPV6 -, Address Dynamic Capable For guidance And other than that Capable For guidance	2	Fou rtee nth
Discussion/ Questions General	Look	Means of transportation	Means of transportation	2	Fifth Ten

Structure Infrastructure			. 11
 "Computer Networks", Behrouz A. Forouzan, 7th. "Data Communications, Computer Networks and OSI", 4th Edition, A. Tannenbaum, Prentice-Hall, 2010.th "Computer Communications and Networks", J. R. Freer, USL Press, 2008. 	Prescribed books required	.1	
	References Main(Sources)	. 2	
	Books And references Which Recommended With it), Magazines Scientific ,Reports(- a	-
Locations Scientific Sober	,References electronic Locations The Internet	- B	

. 12 Plan Development The decision Academic • Addition or Delete items For the curricula Within Development Scientific obtained in Every decision And in proportion No Exceeds 10% • Keeping up Development Achieved through methods and means **Miscellaneous For the decision**

Description of the course: Encryption (cryptography)

كز هذا المقرر الدراسي على انواع خوارزميات التشفير ووظائف التشفير يشرح هذا المقرر تشفير المفتاح الكلاسيكي والمتماثل واعطاء امثلة لكل هذه الانواع ، بالاضافة الى الصيغ الرياضية ومميزات هذه الخوارزميات. ، وكيفية اختيار طرق التشفير التي تلائم هذه الخوارزميات.

University of Wasit/ College Science Computer And technology Information	The institution Educational	•
Section Science Computer	Section University/ The center	٠
Encryption	Name of the rapporte	•
	ur	
Attendance time) Theoretical and practical(Shapes Attendance available	•
Chapter Academic The second/The stage Third	Chapter/ year	•
An hour 60	Number Hours Academic (total)	•
10/3/4 202	Date Preparation This Description	•
Goals The decision	•	•
Introduction For the student In Rules Understood Algorithms Encryption.	•	
Developing skills The student In Algorithms Encryption.	•	
Giving The student Look About Encryption And types.	•	
Aims The decision To Definition The student In a way Work Algorithms Encryption.	•	
Outputs The decision And ways Education And learning And evaluation:		•
Objectives Knowledge:	- a	
Study Algorithms Encryption In a way Good 1.		
. Knowledge Features This Algorithms 2.		
. Learn Some Algorithms Encryption 3.		
Objectives Marathi Private By decision:	- B	
. IKSAAD THE STUDENT SKIN DESIGN AIGUITUMIS - S		

Encryption.

. Iksaab The student Skill Work The group To achieve Projects 4
Research Scientific.

Ways Education And learning

- Meeting Lectures Scientific In Halls Academic 7.
- . Discussion About Directing way Questions And it opened Chapter Dialogue And 8 interaction With The request.
- . Cost The student Prepared System Recover 9
 - . Cost The student Prepared Reports Brief For some 10 Topics.
- . Cost The request Prepared Projects Organization 11 Recover Certain.
- . Cost The request With work Lectures Optional For topics Related Recover Information 12.

Ways Evaluation

- . Implementation Duties Daily 3.
 - . Tests Daily And monthly And the final 4.

C- Objectives Existentialism

And value.

- . Encouragement Students On Benefit From The decision From During Faith 5 Importantly The decision In The process Educational And in Field Specialization In a way General.
 - . Enhancement Cooperation Between Students From 6 During Implementation Duties The process.
 - . Development Energies The idea And creativity I have The request From During 7 Implement them To different Duties.
- . Encouragement The request And raise spirit 8 Competition Among them.

Ways Education And learning

- . Giving Activities group Importance From During Customize Degrees On Activities 4 group
- . administration Lecture on A form that works The student 5 He feels Importantly Time.
- . Encouragement The student On Submission Work Creativity In Specialization Keep 6 up Standards Quality In Service The community.

Ways Evaluation

- Commitment In attendance For a hall The lesson And finish Business The taxpayer
 With itDuties and reports (Within Timings'
 Specific.
- . Discussion And participation Effective In Hall 5
- . It is considered Tests Now, The quarterly And the final About Commitment 6
 And collection Cognitive And the skills.

Dr- Skills Public And qualification movable Employment And development Personal(.

) Skills Others related Capable

- . Development Ability The student On Dealing With 6 Means Technology.
 - . Development Ability The student On Dealing 7 With Internet.
 - . Development Ability The student is on Learn Knock And methods Development 8
 Personal Why? After The decision.
- . Development Ability The student On Dialogue 9 And discussion.
 - . Development Ability The student is on Search Scientific And 10 Writing Search Scientific Sober.

Structure The	Structure The decision:				. 10
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	Hours	The week
[Assessment]	Look	introduction	Historical notes.	3	The first
	Look	Classic encryption techniques	Substitution cipher	3	The second
[Familiarity]	Look	Classic encryption techniques	Transposition cipher	3	Third
[Assessment]	Look	Products techniques	Substituton and transposition cipher	3	The fourth and fifth

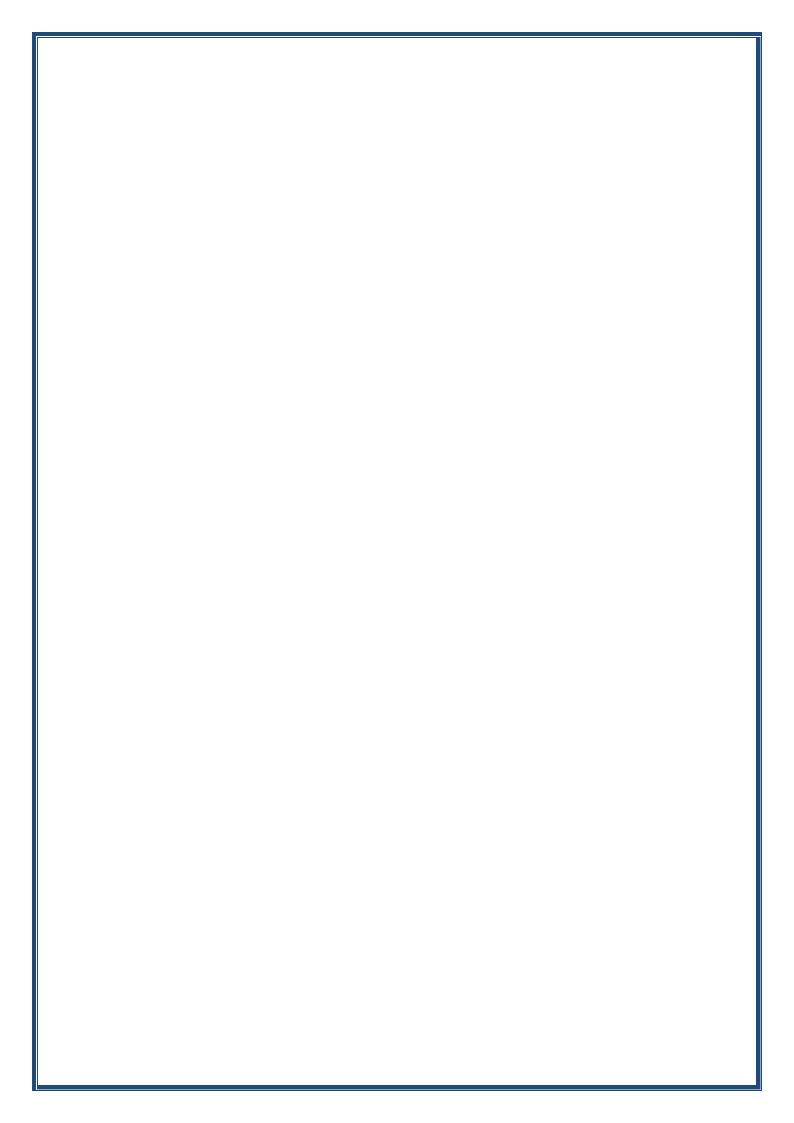
[Familiarity]	Look	Block cipher	Block cipher concepts	3	Sixth And Sevent h
[Assessment]	Look	Data encryption standard	Data encryption standard concepts & characteristics	3	The eight h and ninth
[Assessment]	Look	Group, ring, field Modular operation	Group, ring. ring , fieldModular operation concepts	3	Tenth And the eleven th
[Familiarity]	Look	Advanced Encryption standard	Advanced Encryption standard concepts & characteristics	3	Twelf th And the thirt eent h

Structure The decision:				. 10	
Method EvaluationMethod EducationName Unit/or Topic Name Unit/or Topic requiredOutputs Learning requiredHours					The week
[Familiarity]	Look	Block cipher and stream	Block cipher and	3	fourte
		cipher characteristics	stream cipher ,		en
			thedifference		and
			between them		fifteen

Structure Infrastructure			. 11
William Stallings, Cryptography and Network Security: Principles and practice, 6/E, Pearson Education, Inc., 2014.	Prescribed books required	.1	
Mark Stamp, Information Security Principles and practice, John Wiley & Sons, 2006	References Main(Sources)	. 2	
	Books And references Which Recommended With it), Magazines Scientific ,Reports(- a	
Locations Scientific Sober	,References electronic Locations The Internet	- B	

Plan Development The decision Academic ◆ Addition or Delete items For the curricula Within Development Scientific obtained in Every decision And in proportion No Exceeds 10%

• Keeping up Development The result In ways and means Miscellaneous For the decision



Description of the course: Translations (2) (Compilers)

University of Wasit/ College Science Computer And technology Information	The institution		1
technology information	Educational		
Section Science Computer	Secti	on	2
•	University/ Tl	he	
	cent	ter	
Translations	Name of the rap	pporteur	3
work hours My presenceMy view And practical(Shap	oes	4
	Attendan		
	availab	<u>ole</u>	
Chapter Academic The second/The stage Third	Chapter/		5
A 1 CO	year	11	
An hour 60	Numbe Academic	r Hours	6
0 1/3/4 202	Date Preparat		7
0 1/3/4 202	This Descript		
Goals The decision	This Bescripe		8
Aims The decision To Definition The student On		•	
Levels Private Languages Programming.			
stages Which It passes With it Every programme Written Bye I Software From Just a moment Press button Implementation Arriving To Results On Execution screen.			
Recognition On The stages The six That's why The decision			
And algorithms used In All Stage.		•	
And algorithms used In All Stage. Recognition On Errors Which From The		•	
And algorithms used In All Stage. Recognition On Errors Which From The possible that He commits it The program.			
Recognition On Errors Which From The			9
Recognition On Errors Which From The possible that He commits it The program. Outputs The decision And ways Education And learning And			9
Recognition On Errors Which From The possible that He commits it The program. Outputs The decision And ways Education And learning And evaluation:			9
Recognition On Errors Which From The possible that He commits it The program. Outputs The decision And ways Education And learning And			9
Recognition On Errors Which From The possible that He commits it The program. Outputs The decision And ways Education And learning And evaluation: Objectives Knowledge: Recognition On The difference 7		•	9
Recognition On Errors Which From The possible that He commits it The program. Outputs The decision And ways Education And learning And evaluation: Objectives Knowledge: Recognition On The difference 7 Between Interpretations And		•	9
Recognition On Errors Which From The possible that He commits it The program. Outputs The decision And ways Education And learning And evaluation: Objectives Knowledge: Recognition On The difference 7 Between Interpretations And translators.		•	9
Recognition On Errors Which From The possible that He commits it The program. Outputs The decision And ways Education And learning And evaluation: Objectives Knowledge: Recognition On The difference 7 Between Interpretations And translators. Recognition On Stages 8		•	9
Recognition On Errors Which From The possible that He commits it The program. Outputs The decision And ways Education And learning And evaluation: Objectives Knowledge: Recognition On The difference 7 Between Interpretations And translators. Recognition On Stages 8 Translations for each Language		•	9
Recognition On Errors Which From The possible that He commits it The program. Outputs The decision And ways Education And learning And evaluation: Objectives Knowledge: Recognition On The difference 7 Between Interpretations And translators. Recognition On Stages 8 Translations for each Language Software.		•	9
Recognition On Errors Which From The possible that He commits it The program. Outputs The decision And ways Education And learning And evaluation: Objectives Knowledge: Recognition On The difference 7 Between Interpretations And translators. Recognition On Stages 8 Translations for each Language Software. Knowledge And they understood He 9		•	9
Recognition On Errors Which From The possible that He commits it The program. Outputs The decision And ways Education And learning And evaluation: Objectives Knowledge: Recognition On The difference 7 Between Interpretations And translators. Recognition On Stages 8 Translations for each Language Software.		•	9
Recognition On Errors Which From The possible that He commits it The program. Outputs The decision And ways Education And learning And evaluation: Objectives Knowledge: Recognition On The difference 7 Between Interpretations And translators. Recognition On Stages 8 Translations for each Language Software. Knowledge And they understood He 9 founded Work The contexts of each stage In a		•	9

. Knowledge And they understood How Dealing 11 With any Value it His entrance And verification From Her health. They understand Types Structures The statement The user And 12 use it To be sure From Extent Health any Acting Linguistic. **Objectives Marathi Private** - B By decision: . Iksaab The student Capacity On How Building The translator Private In language Certain or Develop it or Amendment Aliyah. . Iksaab The student Experience In Discovery The error 4 And not Occurrence In it. Ways Education And learning • Meeting Lectures Scientific In Halls Academic . Guidance Students To Some Locations Electronic For benefit From her. . Cost The student Prepared Reports Brief For some Topics And Implementation Duties Household. . Episodes Discussion To be treated The problems that He 8 faces it The student By decision. **Ways Evaluation** . Implementation Duties Daily . Tests Daily And monthly And the final 4.

Objectives Existentialism And value.	-C
. Encouragement Students On Benefit From decided by During Faith Import	antly The 5
decision In The process Educa	tional And in
Field Specialization In a way General.	
Enhancement Cooperation Between Students From During 6	
Implementation Duties The process.	
. Development Energies The idea And creativity I have The request From	During 7
Implement them To different Duties.	
. Encouragement The request And raise spirit 8	
Competition Among them.	
Ways Education And learning	
. Giving Activities group Importance From During Customize Degrees On	Activities 4
group	
. administration The lecture On A form that works The 5	
student He feels Importantly Time.	
. Encouragement The student On Submission Work Creativity In Specia	lization 6
Complies with standards Quality In Service The c	community.
Ways Evaluation	
Commitment In attendance For a hall The lesson And finish Business The ta	axpayer 1
With itDuties and reports (With Specific.	in Timings T
. Discussion And participation Effective In Hall 5	
The lesson.	
	t 6
. It is considered Tests Now, The quarterly And the final About Commitmen And collection Cognitive And the s	
	- Dr
Skills Public And qualification movable) Skills Others related Capable Employment And development Personal(.	- Dr
• •	
Development Ability The student On Dealing With 61 Means Technology.	
	
Development Ability The student On Dealing 62	
With Internet.	

With Internet.	
Development Ability The student is on Learn Knock And methods Development	63
Personal Why? After The decision.	

Development Ability The student On Dialogue 64
And discussion.

Development spirit Creativity And perseverance And search 65
About New In Field His work.

Structure The decision:					.10
Method Evaluation	Metho d Educat ion	Name Unit/or Topic	Outputs Learning required	Hours	The week
Questions General And discussion	Look	Introduction to compiler	Translations	4	The first
Questions General A discussion or an exam that I	Look	Lexical analysis and parser analysis	Translations	4	The second

Questions General And discussion	Look	Bottom up and shift reduce	Translations	4	Third
Exam I am	Look	Operator precedence method	Translations	4	Fourth
General questions And discussion or Exam I am	Look	LR parser method	Translations	4	Fifth
Discussion	Look	SLR, Conical, lookahead	Translations	4	Sixth
Exam Monthly	Look	Semantic analysis and	Translations	4	Seventh
Duties group	Look	Methods of semantic analysis	Translations	4	Eighth

	Structure The decision:				
Method Evaluation	Metho d Educat ion	Name Unit/or Topic	Outputs Learning required	Hours	The week
Questions General	Look	Intermediate code generation	Translations	4	Ninth
Duties	Look	Intermediate code generation	Translations	4	Tenth
Questions General	Look	Code optimization	Translations	4	1st Ten
Discussion	Look	Example of code optimization	Translations	4	Twe lfth
Exam I am	Look	Code generation	Translations	4	Third Ten
Duties group	Look	Build simple. simple -part1 compiler	Translations	4	Fou rtee nth
Exam Monthly	Look	Build simple. simple compiler - part2	Translations	4	Fiftee nth

Structure Infrastructure			.11		
Basics of compiler design Torben Egidius Mogensen(2002).	December 1 has been seed as	1			
• Compilers: principles, techniques, and tools. tools Alfred V. A Jeffrey D. Ullman(1998). Prescribed books required .1					
Principles of Compiler Design By Alfred Aho and Jeffrey Ullman	References Main(Sources) .	2			
	Books And references Which Recommended With it	a			
) , Magazines Scientific ,Reports(
Locations Scientific Sober	,References electronic Locations The Internet	В			
	••••				

.12

Plan Development The decision Academic • Addition or Delete items For the curricula Within Development Scientific obtained in Every decision And in proportion No Exceeds 10%

• Keeping up Development The result In ways and means Miscellaneous For the decision

Description of the course: Programming Locations Electronic programming) (Website

University of Wasit/ College Science Computer And technology Information	The institution Educational	.1
Section Science Computer	Section University/ The center	. 2
Programming Locations Electronic	Name of the rapporte ur	.3
work hours My presenceMy view And practical(Shapes Attendance available	. 4
Chapter Academic the second/The stage Third	Chapter/ year	.5
An hour 60	Number Hours Academic(total)	.6
0 1/3/4 202	Date Preparation This Description	.7
Goals The decision		.8
Aims This The decision To Supply The student With a look General About Programming Locations Electronic.	•	
It is possible The student From Design Pages Web Developed Fro During A group Complete From Languages Programmin		
It is possible The student From Program it Pages The web From During A group From Languages Programming.	•	
It is possible The student From Design Pages Web You work With Data relational stored On The Inte		
It is possible The student From Knock Building Rules Data Effective For applications The web And update it Through The Internet		
It is possible The student From Dealing With EnvironmentClient-Server	•	
Outputs The decision And ways Education And learning And		.9

ovaluation.	
evaluation:	
Objectives Knowledge:	- a
. Enable The student From Knowledge Types And Basics Desi	ign And 1
Programming Locations Through Internet A	nd the web.
. Enable The student From Knowledge Languages necessary To de	esign And 2
programming Different Types Locations Through	
Enable The student From Knowledge Jobs Basic Which Availab	ility Different 3
On the web.	ramming Private
. Enable The student From Building Locations It works 4	
Effectively Through The Internet.	
Objectives Marathi Private	- B
By decision:	- D
. Iksaab The student Skills Software Especially Programming 1	
Locations On The Internet.	
. Iksaab The student Skills In Update Programs And discovery And spe	ecify Errors 2
Software And h	•
. Iksaab The student Skill Analysis The logical one To structure i	
Connected data On sites	
Ways Education And learning	
. Meeting Lectures Scientific In Halls Academic And use the 1show) (Dat	a For a purpose
122011) (200	Statement Ideas
Main for the topic.	
. Guidance The request To Some Locations Electronic 2	
For benefit From her.	
. Cost The student Prepared Reports Brief For some Topics And Implem	entation Duties
Household.	
. A contract Research sessions It is done From During it Explanation	And analysis 4
Some Problems A state Ijad Solutions For him.	
Ways Evaluation	
. Action Tests Theory In The hall Academic 1) daily, monthly,	(final)
. Subtract Questions And inquiries Oral On The request For a 2	
statement Extent Their response.	

Organize The request In a way Totals And their cost Completely Requirements Building System Certain And evaluation Percentage Their achievement For that Work. Objectives Existentialism And value. . Encouragement Students On Benefit From The decision From During Faith Importantly The decision In The process Educational And in Field Specialization In a way General. Ability The student To work On performance Duties And deliver 2 it In The appointment The decision. . Development Energies The idea And creativity I have The request From During Implement them To different Duties. . Encouragement The request And raise spirit Competition Among them. . Thinking The logical one In Study Sides The problem And find Solutions appropriate For her. . Development Ability The student On Dialogue 6 and discussion. **Ways Education And learning** . Giving Activities group Importance From During Customize Degrees On Activities group . administration Lecture on A form that works The student He feels Importantly Time. . Encouragement The student On Submission Work Creativity In Specialization Keep up Standards Quality In Service The community. **Wavs Evaluation** Commitment In attendance For a hall The lesson And finish Business The taxpayer With itDuties and reports (Within Timings Specific. . Discussion And participation Effective In Hall 5 The lesson. . It is considered Tests Now, The quarterly And the final About Commitment 6 And collection Cognitive And the skills. Skills Public And qualification movable) Skills Others related Capable - Dr **Employment And development Personal(.** . Development Ability The student On Dealing With 6 Means Technology. . Development Ability The student On Dealing With Internet. . Development Ability The student is on Learn Knock And methods Development Personal Why? After The decision.

Structure The decision:				. 10	
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	Hours	The week
		Html Introduction	HTML	4	The
Questions General And discussion	Theoretical + practical		Language/Design Language		first

About New In Field His work.

And discussion.

. Development spirit Creativity And perseverance And search 10

. Development Ability The student On Dialogue

Questions General A discussion or an exam that	Theoretical + practical	HTML Elements	HTML Language	4	The second
Questions General And discussion	Theoretical + practical	HTML Elements	HTML Language	4	Third
Exam I am	Theoretical + practical	HTML List	HTML Language	4	Fourth
Questions General A discussion or an exam that	Theoretical + practical	HTML Forms	HTML Language	4	Fifth
Questions General And Discussion	Theoretical + practical	HTML Table	HTML Language	4	Sixth
Questions General	Theoretical + practical	HTML Attributes	HTML Language	4	Seventh
Duties group	Theoretical + practical	Introduction/Styling	CSS Language/Forma t Language	4	Eighth

Structure The d	ecision:				. 10
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	Hours	The week
		HTML With CSS			
Questions General	Theoretical + practical		CSS Language	4	Ninth
Exam Monthly	Theoretical + practical	Elements and Functions in CSS	CSS Language	4	Tenth
Questions General	Theoretical + practical	Programming Basics Identifiers/ Data Types /Arithmetic Operators/ Comparison Operators/ Logical Operators	Java Script/ Programming Language	4	Elev enth
Discussion and Exam I am	Theoretical + practical	Conditional Sentences	JavaScript	4	The secon d
Questions General	Theoretical + practical	Repetition Loops	JavaScript	4	Third Ten
Duties group	Theoretical + practical	Arrays	JavaScript	4	Fou rtee nth
Discussion	Theoretical + practical	Functions	JavaScript	4	Fiftee nth

Structure Infrastructure			. 11
	Prescribed books required	.1	
	References Main (Sources)	. 2	
• Puntambekar, AA, 2020. Internet Programming. Technical Publications.	Books And references	- a	
Grove, R. F., 2009. Web Based Application Development. Jones & Bartlett Publishers.	Recommended scientific) journals),,,Reports(3	
Locations Scientific Sober	References ,electronic Internet sites	- B	
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n Development The decision AcademicAddition or Delete items For the curricul	la Within Development Scientific	
obtained in Every decision And in proport	tion No Exceeds 10%	
• Keeping up Development The result In w decision	vays and means Miscellaneous For the	
decision		

Description The decision: (2) Networks Computer Networks(2)) (Computer

of Wasit University/ College Science Computer And technology Information	The institution		. 1
Department of Computer Science	Educational Secti University/ T		. 2
N	cen	ter	
Networks Computer (2)	Name of the ra		. 3
work hours My presenceMy view And practical(Shar Attendan availal	ice	. 4
Chapter Academic The second/The stage Third	Chapter/ year		. 5
An hour 60	Academi		. 6
0 1/3/4 202	Date Preparat This Descript		.7
Goals The decision			. 8
Aims The decision To Increase Knowledge The student With networks Computer) Its advantages And Its defects.		•	
Get to know more On Components Network.		•	
Recognition On Classification The problem.		•	
Advantages And Disadvantages Topology Networks.		•	
Outputs The decision And ways Education And learning And evaluation:			.9
Objectives Knowledge:		- a	
. Enable The student From Knowledge Basics Networks Computer And the model Reference For network	1 xs.		
. Enable The student is from Knowledge Basics 2 And requirements Building Network Computer.			
. Enable The student From Knowledge Jobs Basic 3 Which Availability Networks The computer.			
. Supply The student With 4 concepts About Programming Distributors.			
. Building Networks 5 Wired And wireless.			
Objectives Marathi Private By decision:		- B	
. Iksaab The student Skill Building Network Computer 1 And how Sustain it.			
Iksaab The student Skill Convert Simulation Network Com	puter About A s	Simulated 2	

. Iksaab The student Skills In Maintenance Networks 3
The computer.
Ways Education And learning
. Meeting Lectures Scientific In Halls Academic And use the 1show) (Data For the
purpose of a statement Ideas
Main for the topic.
. Guidance Students To Some Locations Electronic For 2
benefit From her.
. Cost The student By implementing A group From Programs 3
In Laboratories The process.
. Cost The student Prepared Reports Brief For some Topics And Implementation Duties
Household.
Ways Evaluation
. Implementation Duties Daily 1.
. Tests Daily And monthly And the final 2.
. Participation In Hall The lesson 3.

. Maintenance On Attendance

.Tracer

Objectives Existentialism And value. **-C** . Encouragement Students On Benefit From decided by During Faith Importantly The decision In The process Educational And in Field Specialization In a way General. . Enhancement Cooperation Between Students From **During Implementation Duties The process.** . Development Energies The idea And creativity I have The request From During Implement them To different Duties. . Encouragement The request And raise spirit 4 Competition Among them. **Ways Education And learning** . Giving Activities group Importance From During Customize Degrees On Activities group . administration The lecture On A form that works The student He feels Importantly Time. . Encouragement The student On Submission Work Creativity In Specialization Complies with standards Quality In Service The community. **Ways Evaluation** . Participation Effective In Hall The lesson Evidence Commitment The student And you carry it Responsibility. . Commitment On time specified In Submission Duties And research. . It is considered Tests Now, The quarterly And the final About Commitment And collection Cognitive And the skills. Skills Public And qualification movable) Skills Others related Capable - Dr **Employment And development Personal(.** . Development Ability The student On Dealing With Means Technology. . Development Ability The student On Dealing

With Internet.	
. Development Ability The student is on Learn Knock And methods Development	3
Personal Why? After The decision.	

. Development Ability The student On Dialogue 4
And discussion.

. Development spirit Creativity And perseverance And search 5 About What's new in Field His work.

Structure The	decision:				. 10
Method Evaluation	Metho d Educa tion	Name Unit/or Topic	Outputs Learning required	Hours	The week
Questio ns Genera I and discuss ion	Look	Introduction About Networks ,Computer advantages and disadvantages of networks The accountant	Introduction About Networks The , accountant Advantages and disadvantages of computer networks	4	The first

General questions and discussion or Exam I am	Look	Components Network: NIC AndHUB Repeater and Bridge And RouterAnd andBRouter Data And GATEWAY Flow	Components Network: NIC And And Bridge And Repeater HUB BRouter andRouter Data Flow And GATEWAY	4	The second
Questions General And discussion	Look	Classification Network ,LAN , WAN And MAN	, Network classification LAN ,MAN WAN and	4	Third
Exam I am	Look	Topology Network: , Network And a star, And a bus, And a ring The advantages and disadvantages of each Topology.	Topology Network: ,Network , Star, bus ring, advantages and disadvantages All Topology.	4	Fourth
General questions and discussion or Exam I am	Look	Transmission media: magnetic media, twisted pair, coaxial cables For the ,scope Basic coaxial cables with Scope Wide ,Optical fibers cables	Media Transportation: Media Magnets, twisted pair, cables ,Baseband coaxial cables Pivotal Self Scope Wide And fibre Visual, cables	4	Fifth

Structure The d	lecision:				. 10
Method Evaluation	Metho d Educa tion	Name Unit/or Topic	Outputs Learning required	Hours	The week
Questions General And discussion	Look	Transmission of ,microwaves infrared waves And the millimeter , And transmitting waves Light And media LANWireless	Transfer Waves The minute And waves, X-rays Under Red And , the millimeter lightwave transmission and wirelessLAN media	4	Sixth
Questions General	Look	Types of networks :LAN) Its size , Technology , Move it WAN AND , (MAN	Types Networks:LAN) Its , size , Technology Move it(, WAN .AND MAN	4	Seventh
Duties group	Look	Reference modelOSI	Reference modelOSI	4	Eighth
Questions General	Look	Relationship Services With protocols	Relationship Services With protocols	4	Ninth
Exam Monthly	Look	layer Material	layer Material	4	Tenth
Questions General	Look	Layer Correlation Data	Link layer Data	4	1st Ten
Discussion and Exam I am	Look	Layer devices Network	Layer Network	4	The secon d
Questions General	Look	Layer Transportation	Layer Transportation	4	Third Ten
Duties group	Look	Session layer	he session, Layer Display, application layer	4	Fou rtee nth
Discussion	Look	Transfer Data In Model OSI Model , ReferenceIP / TCP	Transfer Data in Model OSI, Reference modelIP / TCP	4	Fiftee nth

Structure Infrastructure			.11
 Simulation: Principles and Methods By Wayne Computer Performance Evaluation Modeling, Techniques and Tools, Raymond Marie, Brigitte Plateau, St.Malo, June 3-6, 1997. 	Prescribed books required	.1	
• Probability, Statistics, and Stochastic Processes by Peter Olofsson & Mikael Andersson, 2011.	References Main (Sources)	. 2	
	Books And references Which is recommended	- a	

	With it) Magazines , Scientific ,Reports(
Locations Scientific Sober	References ,electronic Internet sites 	- B	

Plan Development The decision Academic

. 12

- Addition or Delete items For the curricula Within Development Scientific obtained in Every decision And in proportion No Exceeds 10%
- Keeping up Development Obtained by means And the methods Miscellaneous For the decision

Model Description Decided

Description The decision: Rules Data Distributed Database) (Distributed

University of Wasit/ College Science Computer And technology	The	.1
Information	institution	
	Educational	
Section Science Computer	Section	.2
-	University/ The	
	center	
Rules Data Distributed	Name of	.3
	the	
	rapporte	
	ur	
Attendance time(theoretical and practical)	Shapes	.4
	Attendance	
	available	
Chapter Academic The second/The stage Third	Chapter/	.5
	year	
An hour 60	Number Hours	.6
All nour ov	Academic	.0
	(total)	
0 1/3/4 202	Date Preparation	.7
	This Description	
Goals The decision		.8
They understand Principles Rules	•	

Data And Knock Design it. They understand What She is Organization administration A rule Data. I know him The reasons Which Led To Appearance Rules Data Distributor. Know what She is Architectures available And The user To build Systems Rules Data Distributor. Outputs The decision And ways Education And learning And evaluation: Objectives Knowledge: Definition With principles And Basics Rules Data 11 Distributor And Its systems And Its types. Application Concepts Rules 12 Data Distributor. Realization Importance 13 Organization Rules Data Distributor. Select The difference between Systems Rules Data 14 And Systems Rules Data Distributor. Capability On Description Systems 15 Rules Data Distributor. Objectives Marathi Private By decision: Capability On Meeting Lecturer Related Regularly Rules 9 Distributed data. Capability On Meeting Lecturer Related Regularly Rules 9 Distributed Distributor. Capability On Design System A rule Data 10 Distributor. Capability On Design System A rule Data 10 Distributor. Capability On administration Dialogues And Discussions related By organization 12 Rules Data And rules Dala Distributor. Capability On administration Dialogues And Discussions related By organization 12 Rules Data And rules Dala Distributor. Capability On administration Dialogues And Discussions related By organization 12 Rules Data And rules Dala Distributor. Capability On administration Dialogues And Discussions related By organization 12 Rules Data And rules Dala Distributor. Capability On administration Dialogues And Discussions related By organization 12 Programs. Guidance Students To Some Locations Electronic For 15 Lencift From her. Cost The student By implementing A group From Programs In 16 Laboratories The process. Cost The student Prepared Reports Brief For some Topics And Execution of duties 17 Household.			
is Organization administration A rule Data. I know him The reasons Which Led To Appearance Rules Data Distributor. Know what She is Architectures available And The user To build Systems Rules Data Distributor. Outputs The decision And ways Education And learning And evaluation: Objectives Knowledge: Definition With principles And Basics Rules Data 11 Distributor And Its systems And Its types. Application Concepts Rules 12 Data Distributor. Realization Importance 13 Organization Rules Data Distributor Select The difference between Systems Rules Data 14 And Systems Rules Data Distributor. Capability On Description Systems 15 Rules Data Distributor. Objectives Marathi Private By decision: Capability On Meeting Lecturer Related Regularly Rules 9 Distributed data. Capability On Design System A rule Data 10 Distributed. Capability On Learning And Training On Different Systems Rules Traditional 11 data And Distributor. Capability On administration Dialogues And Discussions related By organization Distributor. Ways Education And learning Meeting Lectures Scientific In Halls Academic And use the 13show) (Data For a purpose Statement Ideas Main for the topic. Use Device Computer In Implementation 14 Programs. Guidance Students To Some Locations Electronic For 15 benefit From her. Cost The student By implementing A group From Programs In 16 Laboratories The process. Cost The student Prepared Reports Brief For some Topics And Execution of duties 17	Data And Knock Design it.		
Administration A rule Data. I know him The reasons Which Led To Appearance Rules Data Distributor. Know what She is Architectures available And The user To build Systems Rules Data Distributor. Outputs The decision And ways Education And learning And cvaluation: Objectives Knowledge: Definition With principles And Basics Rules Data 11 Distributor And Its systems And Its types. Application Concepts Rules 12 Data Distributor. Realization Importance 13 Organization Rules Data Distributor Select The difference between Systems Rules Data 14 And Systems Rules Data Distributor. Capability On Description Systems 15 Rules Data Distributor. Objectives Marathi Private By decision: Capability On Meeting Lecturer Related Regularly Rules 9 Distributed data. Capability On Design System A rule Data 10 Distributed. Capability On Learning And Training On Different Systems Rules Traditional 11 data And Distributor. Capability On administration Dialogues And Discussions related By organization Rules Data And rules Data Distributor. Capability On administration Dialogues And Discussions related By organization Rules Data And rules Data Distributor. Capability On administration Dialogues And Discussions related By organization Rules Data And rules Data Distributor. Capability On administration Dialogues And Discussions related By organization Rules Data And rules Data Distributor. Capability On administration Dialogues And Discussions related By organization Rules Data And rules Data Distributor. Capability On administration Dialogues And Discussions related By organization Rules Data And rules Data Distributor. Capability On administration Dialogues And Discussions related By organization Rules Data And rules Data Distributor. Capability On administration Dialogues And Discussions related By organization Rules Data And rules Data Distributor. Capability On administration Dialogues And Discussions related By organization Rules Data And rules Data Distributor. Capability On Administration Dialogues And Discussions relat	They understand What She	•	
I know him The reasons Which Led To Appearance Rules Data Distributor. Know what She is Architectures available And The user To build Systems Rules Data Distributor. Outputs The decision And ways Education And learning And cvaluation: Objectives Knowledge: Definition With principles And Basics Rules Data 11 Distributor And Its systems And Its types. Application Concepts Rules 12 Data Distributor. Realization Importance 13 Organization Rules Data Distributor Select The difference between Systems Rules Data 14 And Systems Rules Data Distributor. Capability On Description Systems 15 Rules Data Distributor. Objectives Marathi Private By decision: Capability On Meeting Lecturer Related Regularly Rules 9 Distributed data. Capability On Design System A rule Data 10 Distributed. Capability On Learning And Training On Different Systems Rules Traditional 11 data And Distributor. Capability On administration Dialogues And Discussions related By organization Distributor. Rules Data And rules Data Ways Education And learning Meeting Lectures Scientific In Halls Academic And use the 13show) (Data For a purpose Statement Ideas Main for the topic. Use Device Computer In Implementation 14 Programs. Guidance Students To Some Locations Electronic For 15 benefit From her. Cost The student By implementing A group From Programs In 16 Laboratories The process. Cost The student Prepared Reports Brief For some Topics And Execution of duties 17			
Appearance Rules Data Distributor. Know what She is Architectures available And The user To build Systems Rules Data Distributor. Outputs The decision And ways Education And learning And evaluation: Objectives Knowledge: Definition With principles And Basics Rules Data 11 Distributor And Its systems And Its types. Application Concepts Rules 12 Data Distributor. Realization Importance 13 Organization Rules Data Distributor Select The difference between Systems Rules Data 14 And Systems Rules Data Distributor. Capability On Description Systems 15 Rules Data Distributor. Objectives Marathi Private By decision: Capability On Meeting Lecturer Related Regularly Rules 9 Distributed data. Capability On Design System A rule Data 10 Distributed. Capability On Learning And Training On Different Systems Rules Traditional 11 data And Distributor. Capability On administration Dialogues And Discussions related By organization Poistributor. Ways Education And learning Meeting Lectures Scientific In Halls Academic And use the 13show) (Data For a purpose Statement Ideas Main for the topic. Use Device Computer In Implementation 14 Programs. Guidance Students To Some Locations Electronic For 15 benefit From her. Cost The student By implementing A group From Programs In 16 Laboratories The process. Cost The student Prepared Reports Brief For some Topics And Execution of duties 17			
Know what She is Architectures available And The user To build Systems Rules Data Distributor. Outputs The decision And ways Education And learning And evaluation: Objectives Knowledge: . Definition With principles And Basics Rules Data 11		•	
Outputs The decision And ways Education And learning And evaluation: Objectives Knowledge: Definition With principles And Basics Rules Data 11 Distributor And Its systems And Its types. Application Concepts Rules 12 Data Distributor Realization Importance 13 Organization Rules Data Distributor Select The difference between Systems Rules Data 14 And Systems Rules Data Distributor. Capability On Description Systems 15 Rules Data Distributor. Capability On Meeting Lecturer Related Regularly Rules 9 Distributed data. Capability On Design System A rule Data 10 Distributed. Capability On Learning And Training On Different Systems Rules Traditional 11 data And Distributor. Capability On administration Dialogues And Discussions related By organization Distributor. Ways Education And learning Meeting Lecturers Scientific In Halls Academic And use the 13show) (Data For a purpose Statement Ideas Main for the topic. Use Device Computer In Implementation 14 Programs. Guidance Students To Some Locations Electronic For 15 benefit From her. Cost The student By implementing A group From Programs In 16 Laboratories The process. Cost The student Prepared Reports Brief For some Topics And Execution of duties 17			
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Objectives Knowledge: Definition With principles And Basics Rules Data 11 Distributor And Its systems And Its types. Application Concepts Rules 12 Data Distributor. Realization Importance 13 Organization Rules Data Distributor Select The difference between Systems Rules Data 14 And Systems Rules Data Distributor. Capability On Description Systems 15 Rules Data Distributor. Objectives Marathi Private By decision: Capability On Meeting Lecturer Related Regularly Rules 9 Distributed data. Capability On Design System A rule Data 10 Distributed. Capability On Learning And Training On Different Systems Rules Traditional 11 data And Distributor. Capability On administration Dialogues And Discussions related By organization Rules Data And rules Data Distributor. Ways Education And learning Meeting Lectures Scientific In Halls Academic And use the 13show) (Data For a purpose Statement Ideas Main for the topic. Use Device Computer In Implementation 14 Programs. Guidance Students To Some Locations Electronic For 15 benefit From her. Cost The student Prepared Reports Brief For some Topics And Execution of duties 17	· · · · · · · · · · · · · · · · · · ·		.9
Objectives Knowledge: . Definition With principles And Basics Rules Data 11			
. Definition With principles And Basics Rules Data 11 Distributor And Its systems And Its types Application Concepts Rules 12 Data Distributor Realization Importance 13 Organization Rules Data Distributor . Select The difference between Systems Rules Data 14 And Systems Rules Data Distributor Capability On Description Systems 15 Rules Data Distributor. Objectives Marathi Private By decision: . Capability On Meeting Lecturer Related Regularly Rules 9 Distributed data Capability On Design System A rule Data 10 Distributed Capability On Learning And Training On Different Systems Rules Traditional 11 data And Distributor. Capability On administration Dialogues And Discussions related By organization 2 Rules Data And rules Data Distributor. Ways Education And learning . Meeting Lectures Scientific In Halls Academic And use the 13show) (Data For a purpose Statement Ideas Main for the topic Use Device Computer In Implementation 14 Programs Guidance Students To Some Locations Electronic For 15 benefit From her Cost The student Prepared Reports Brief For some Topics And Execution of duties 17			
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Household.	• • • • • • • • • • • • • • • • • • •	on of duties 17	
. Episodes Discussion To be treated Problems Which He faces 18	-		
it The student By decision.	it The student By decision.		

Ways Evaluation

- . Implementation Duties Daily 9.
 - . Tests Daily And monthly And the final 10.
- . Participation In Hall The lesson 11.
- . Maintenance On Attendance 12.

Objectives Existentialism And value.

-C

. Encouragement Students On Benefit From The decision From During Faith 9 **Importantly The decision In The process Educational** And in Field Specialization In a way

General.

- . Enhancement Cooperation Between Students From 10 **During Execution of duties The process.**
- . Development Energies The idea And creativity I have The request From During 11 Implement them To different Duties.
- . Encouragement The request And raise spirit 12 Competition Among them.

Ways Education And learning

- . Giving Activities group Importance From During Customize Degrees On activities 7 group
- . administration The lecture On A form that works The 8 student He feels Importantly Time.
- . Encouragement The student On Submission Work Creativity In Specialization Keep 9 up Standards Quality In Service The community.

Ways Evaluation

- . Participation Effective In Hall The lesson Evidence Commitment The student And 7 you carry it Responsibility.
- . Commitment On time specified In Submission Duties 8

And research.

. It is considered Tests Now, The quarterly And the final About Commitment 9 And collection Cognitive And the skills.

Skills Public And qualification movable) Skills Others related Capable **Employment And development Personal(.**

- Dr

Skill administration Data And Knowledge And 65 **Technology Information.**

Development Ability The student is on Learn Knock And methods Development 66 Personal Why? After The decision.

Development Ability The student On Dialogue 67

And discussion.

Development spirit Creativity And perseverance And search 68 About New In Field His work.

Structure The decision:					.10
Method Evaluation	Meth od Educ ation	Name Unit/or Topic	Outputs Learning required	Hours	The week
Questions General And discussion	Look	Introduction to DB, The function of DBMS, DBA's responsibilities, DB facilities, DB limitations,	Introduction to database systems and how to manage database systems Data	3	The first

			disadvantages A rule Data		
Questions General A discussion or an exam that I	Look	Introduction to DB, The function of DBMS, DBA's responsibilities, DB facilities, DB limitations, Advantage of DB.	Introduction to database systems and how to manage database systems Data And benefits and disadvantages A rule Data	3	The secon
Questions General And discussion	Look	Introduction to DB, The function of DBMS, DBA's responsibilities, DB facilities, DB limitations,	Introduction to database systems and how to manage database systems Data And benefits and disadvantages A rule Data	3	Third

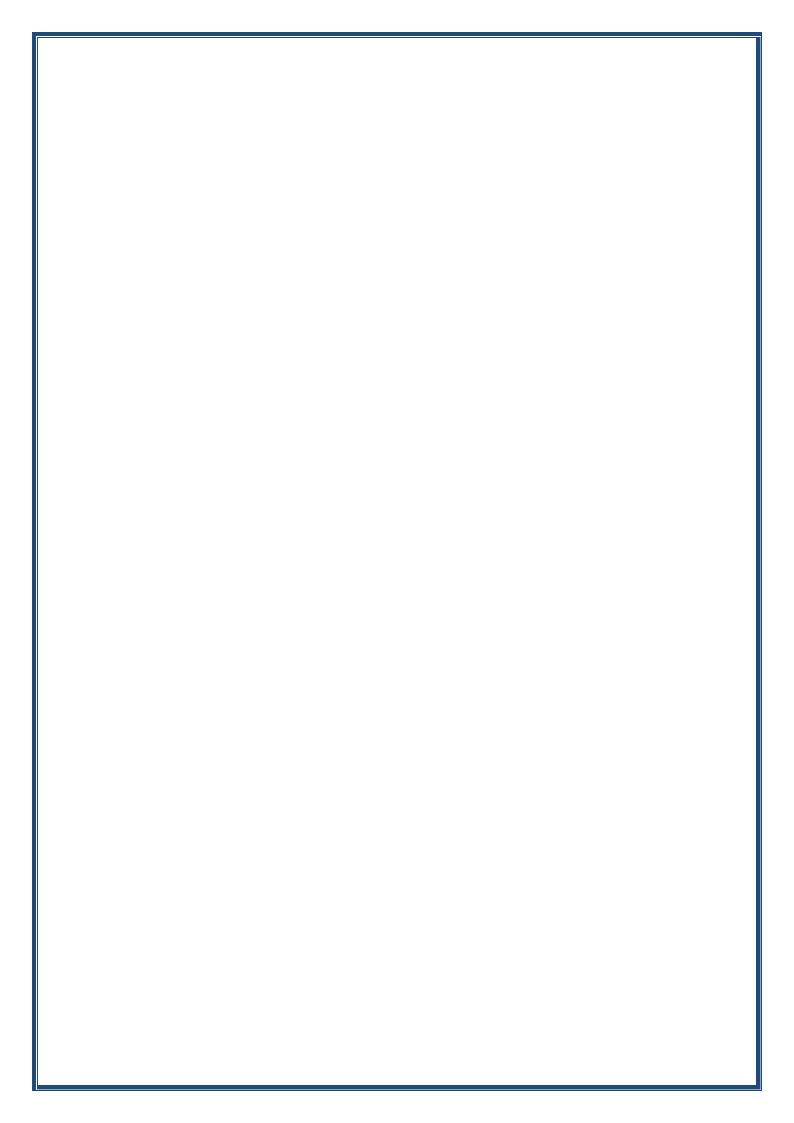
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Method Evaluation	od Educ ation	Name Unit/or Topic	Outputs Learning required	Hours	The week
		Advantage of DB.			
Questions General/ Discussion/ My exam	Look	Artecheture of DB	Understanding and learning the database architecture and the three levels For help And the relationship Among them	3	Four
Questions General/ Discussion/ My exam	Look	Artecheture of DB	They understand And Learn Architectural Database And they understood Levels The third For help And the relationship Among them	3	Fifth
Discussion	Look	Overview of DDB.	Includes They understand Concepts The basics about distributed databases, their applications, and the benefits and disadvantages of .distributed systems Distribution and its architecture	3	Sixtl
Questions General	Look	Overview of DDB.	And its characteristics. Includes They understand Concepts The basics about distributed databases, their applications, and the benefits and disadvantages of .distributed systems Distribution and its architecture And its characteristics.	3	Sever
Duties group	Look	DDB integrity	Includes an explanation of the architecture) (ISO- OSI and an explanation of the (types of networks And characteristics All One of them is .the protocols used.	3	Eigh 1

	1				
Questions General	Look	DDB integrity	Includes an explanation of the architecture) (ISO- OSI and an explanation of the (types of networks And characteristics All One of them is .the protocols used.	3	Ninth
Exam Monthly	Look	Distributed Database Design	They understand Steps And how Distributed database design and what it is Methods The user In Process Design.	3	Tenth
Questions General	Look	Distributed Database Design	They understand Steps And how Distributed database design and what it is Methods The user In Process Design.	3	Elev enth
Discussion	Look	Distributed Database Design	They understand Steps And how Distributed database design and what it is Methods The user In Process Design.	3	Twe lfth
Exam I am	Look	Concurrency Control	Control Synchronized On Distributed database systems and explaining the types of failures that occur in .databases Distributed NAT and the possibility of discovering Holidays And a repair	3	Thi rtee nth
Duties group	Look	Database recovery	It shows This Chapter Possibility Detecting the malfunction And we bless him In	3	Fourt h Ten

Structure The decision:					.10
Method Evaluation	Meth od Educ ation	Name Unit/or Topic	Outputs Learning required	Hours	The week
			The organization		
			Distributor And		
			return		
			The system is working From New		
			This chapter	3	
	Look	Database recovery	shows the		Fiftee
Discussion			possibility of		nth
			discovering		
			Holidays And we		
			bless him In		
			distributed systems		
			and back		
			The system is		
			working From New		

Structure Infrastructure				
• Database system concept, 5\E, Abraham silberschatz and Merry F. Koth, 2006	Prescribed books required	.1		
 Stefano Geri and Giuseppe Pelagatti (1984), Distributed Data Bases Principles and systems, Mc-Graw Hill. 	References Main(Sources)	. 2		
Distributed database, stelane ceri, 2002.	Books And references Which Recommended With it), Magazines Scientific ,Reports(- a		
	,References electronic Locations The Internet	- B		

Plan Development The decision Academic	.12
Addition or Delete items For the curricula Within Development Scientific	
obtained in Every decision And in proportion No Exceeds 10%	
 Keeping up Development The result In ways and means Miscellaneous For 	
the decision	



Description The decision: Excavation Data Mining) (Data

جامعة واسط/كلية علوم الحاسوب وتكنولوجيا المعلومات		المؤسسة التعليمية	٠.١
قسم علوم الحاسوب	مركز	القسم الجامعي / ال	۲.
تنقيب البيانات		اسم المقرر	٠,٣
دوام حضوري (نظري وعملي)	تاحة	أشكال الحضور الم	. £
الفصل الدراسي الثاني / المرحلة الثاثة		الفصل / السنة	.0
60 ساعة	اسية (الكلي)	عدد الساعات الدرا	٠,٦
Y · Y4/3/10	رصف	تاريخ إعداد هذا الو	٠,٧
		اهداف المقرر	٠,٨
عريف الطالب بتنقيب البيانات و التقنيات المستخدمة في استخراج المعلومات المطلوبة	يهدف المقرر الى ت	•	
ضافة الى تعريف الطالب بالتقنيات الحديثة المستخدمة في مجال تصنيف البيانات و	بسرعة وكفاءة، بالإد		
هدف المقرر الي اكساب الطالب المعرفة الأساسية في تحويل و تقليل حجم البيانات			
للى مستوى الطالب العلمي خصوصا في مراحل التعليم المستقبلية.			
والتقييم:	طرائق التعليم والتعلم	مخرجات المقرر و	٠٩
	الأهداف المعرفية:	- أ	
الى اكساب الطالب المعرفة الضرورية لادارة و تحليل و تنقيب كمية ضخمة من			
and the street of the street o	البيات.		
الى تعريف الطالب ببعض التقنيات الخاصة بتنقيب البيانات.			
ب بطرق تصنیف البیانات و دورها في تنقیب البیانات.			
ب ببعض المفاهيم المتقدمة في تنقيب البيانات.			
	الأهداف المهاراتية	ب-	
ب المهارات الضرورية للتعامل مع كمية بيانات ضخمة و استرجاع المعلومات	اكساب الطالب المطلوبة.		
، مهارات تصنيف البيانات.	٢ اكساب الطالب		
، مهارات التحليل و الاستنتاج.	٣. اكساب الطالب		
	طم	طرائق التعليم والتع	
رات العلمية في القاعات الدراسية واستخدام ال (Data show) لغرض بيان الأفكار ضده ع	۱. القاء المحاض الرئيسية للمو		
الى بعض المواقع الالكترونية للإفادة منها.			
باعداد تقارير مختصرة لبعض المواضيع و تنفيذ الواجبات المنزلية.			
ق لمعالجة المشاكل التي يواجهها الطالب بالمقرر.			
المعتب المسلق التي يواجهه الصب بمعرو.		طرائق التقييم	
ت البومية.	١. تنفيذ الواجبان	\" 0 3	
يروية والشهرية والنهائية.			
	. المشاركة في		
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	الأهداف الوجدانية و	-7	
العيمية.	الأنساب الوجدات ر	- 5	

- . Encouragement Students On Benefit From decided by During Faith Importantly The decision In The process Educational And in
- Field Specialization In a way General.
- . Enhancement Cooperation Between Students From 2 During Implementation of duties.
 - . Development Energies The idea And creativity I have The request From During 3 Implement them To different Duties.
- . Encouragement The request And raise spirit 4 Competition Among them.

Ways Education And learning

- . Giving Activities group Importance From During Customize Degrees On Activities 1 group
 - . administration The lecture On A form that works The 2 student He feels Importantly Time.
 - . Encouragement The student On Submission Work Creativity In Specialization 3
 Complies with standards Quality In Service The community.

Ways Evaluation

- . Participation Effective In Hall The lesson Evidence Commitment The student And 1 you carry it Responsibility.
- . Commitment On time specified In Submission Duties 2
 And research.
 - . It is considered Tests Now, The quarterly And the final About Commitment 3
 And collection Cognitive And the skills.
 - Skills Public And qualification movable) Skills Others related Capable
 Employment And development Personal(.
- . Development Ability The student On Dealing With 1 Means Technology.
 - . Development Ability The student On Dealing 2 With Internet.
 - . Development Ability The student is on Learn Knock And methods Development 3
 Personal Why? After The decision.
- Development Ability The student On Dialogue 4
 And discussion.
- . Development spirit Creativity And perseverance And search 5 About What's new in Field His work.

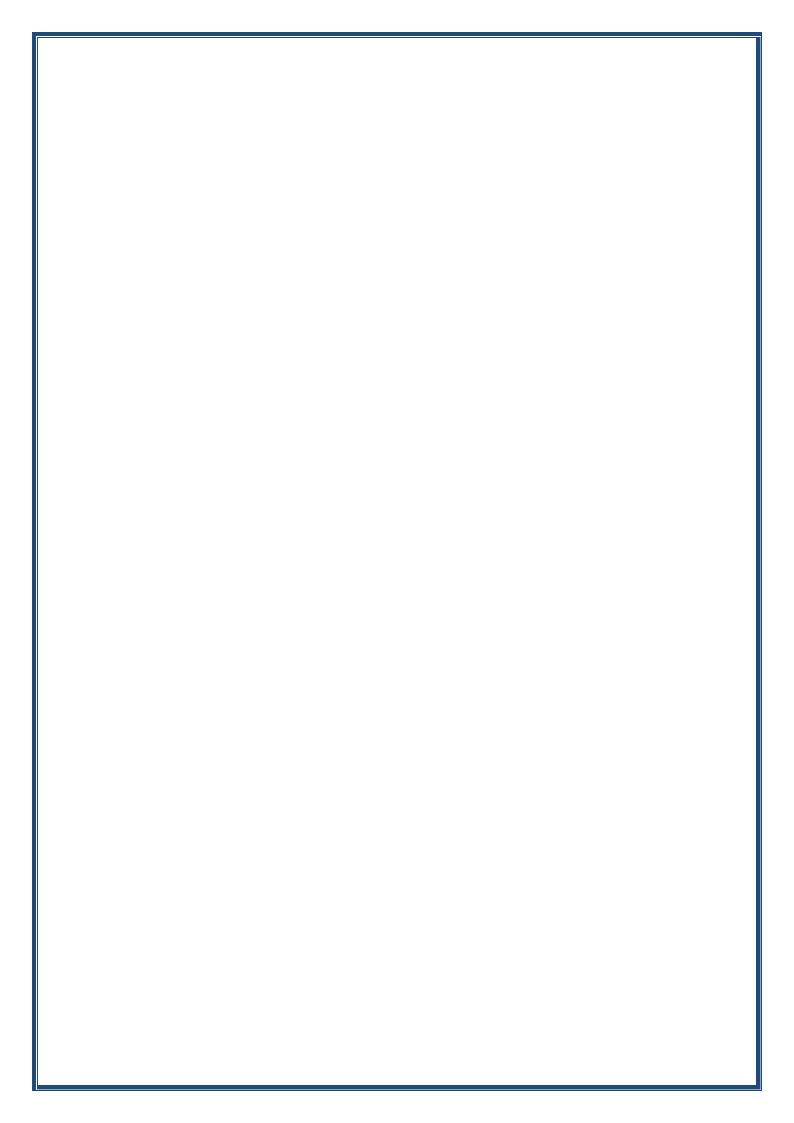
	Structure The decision:				. 10
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	The hour	The week
Questio ns Gener al and discuss ion	Theoretical + practical	Data Mining : Data Mining Functionalities ,Data Mining Process,	Introduction in Excavation Data	3	The first
Questio ns General and discussi	Theoretical + practical	Architecture of a Typical Data Mining Systems, Classification of data Mining Systems,	Basic topics in data mining Includes Structural Data ,mining systems types of data mining systems	3	The second

an exam I am					
Questio ns Gener al and discuss ion	Theoretical + practical	Data Mining Techniques, Data Preprocessing, Data Cleaning, Data Integration, Data Transformation and Data Reduction	Some Technologies Excavation Data	3	Third
Exam I am	Theoretical + practical	Data Mining Techniques, Data Preprocessing, Data Cleaning, Data Integration, Data Transformation and Data Reduction	Some Technologies Excavation Data	3	Fourth
Questio ns General and discussi on Or an exam I am	Theoretical + practical	Data Generalization and Summarization Based Characterization	Generalization And Summary Data	3	Fifth
Discussion	Theoretical + practical	Mining Association Rules	Excavation Rules Data ,big	3	Sixth

		Structure The decision	1:		. 10
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	The hour	The week
		In Large Databases , Classification and Prediction	Classification and Forecasting		
Questions General	Theoretical + practical	Mining Association Rules In Large Databases, Classification and Prediction	cavation Rules Data ,Large scale classification and .prediction	3	Sevent
Group assign ments	Theoretical + practical	Classification By Decision Tree Induction, Bayesian Classification, Prediction, Clusters Analysis, Types of Data In Cluster Analysis, Categorization of Major Clustering Methods, Partitioning Methods, Hierarchical Methods,	Classification methods	3	Eightl
Questions General	Theoretical + practical	Classification By Decision Tree Induction, Bayesian Classification, Prediction, Clusters Analysis, Types of Data In Cluster Analysis, Categorization of Major Clustering Methods, Partitioning Methods, Hierarchical Methods,	Classification methods	3	Ninth
Discussion	Theoretical + practical	Classification By Decision Tree Induction, Bayesian Classification, Prediction, Clusters Analysis, Types of Data In Cluster Analysis, Categorization of Major Clustering Methods, Partitioning Methods, Hierarchical Methods,	Classification methods	3	Tenth
Questions General	Theoretical + practical	Classification By Decision Tree Induction, Bayesian Classification, Prediction, Clusters Analysis, Types of Data In Cluster Analysis, Categorization of Major Clustering Methods, Partitioning Methods,	Classification methods	3	Elev enth

		Structure The decision	1:		. 10
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	The hour	The week
		Hierarchical Methods,			
iscussion/ General questions	Theoretical + practical	Classification By Decision Tree Induction, Bayesian Classification, Prediction, Clusters Analysis, Types of Data In Cluster Analysis, Categorization of Major Clustering Methods, Partitioning Methods, Hierarchical Methods,	Classification methods	3	Twe lfth
Discussion	Theoretical + practical	Applications of Data Mining, Social Impacts of Data Mining, Mining WWW, Mining Text Database, Mining Spatial Databases.	Concepts Advanced In Excavation Data	3	Thi rtee nth
Group assign ments	Theoretical + practical	Applications of Data Mining, Social Impacts of Data Mining, Mining WWW, Mining Text Database, Mining Spatial Databases.	Concepts Advanced In Excavation Data	3	Fou rtee nth
Exam	Theoretical + practical	Applications of Data Mining, Social Impacts of Data Mining, Mining WWW, Mining Text Database, Mining Spatial Databases.	Concepts Advanced In Excavation Data	3	Fiftee nth

Structure Infrastructure			. 11
• Han, jiawei, Jian Pei, and Micheline Kamber. Data mining: concepts and techniques. Elsevier, 2011.	rescribed books required . 1		
 Ponniah, Paulraj. Data warehousing fundamentals for IT professionals. John Wiley & Sons, 2011. Kimball, Ralph, and Joe Caserta. The Data Warehouse ETL Toolkit: Practical Techniques for Extracting, Cleaning, Conforming, and Delivery Data. John Wiley & Sons, 2011. 	References Main(Sources) . 2	2	
dimensional modeling. John Wiley & Sons, 2011.	Books And references Which Recommended With it , Magazines Scientific ,Reports(a	
	References electronic ocations The Internet	3	



n Development The de				
Scientific obtained in	Addition or Delete Vocabulary For the curricula Within Development Scientific obtained in Every decision And in proportion No Exceeds 10% Keeping up Development The result In ways and means Miscellaneous For the decision			

The stage Fourth

- 1- Advanced website programming
- 2- operating system
- 3- Digital image processing
- 4- Distributed systems
- 5- Algorithms
- 6- Computer and network security
- 7- Mobile applications
- 8- Cloud Computing
- 9- graduation project
- 10-The Internet of things
- 11-Systems analysis and design
- 12-English language

Description of the course: Programming Locations Advanced electronics programming) (Advanced website

University of Wasit/ College Science Computer And technology	The	. 1	
Information	institution		
	Educational		
Section Science Computer	Section	. 2	
	University/ The		
	center		
electronics Advanced Programming Locations	Name of	.3	
	the		
	rapporte		
	ur		
work hours My presenceMy view And practical(Shapes	. 4	
	Attendance		
	available		
Chapter Academic the first/The stage The fourth	Chapter/	.5	
	year		
An hour 60	Number Hours	. 6	
	Academic(total)		
0 1/3/4 202	Date Preparation	.7	
	This Description		
Goals The decision		.8	
Aims This The decision To Supply The student With a look	•		
General About Programming Locations Electronic.			
It is possible The student From Design Pages Web Developed From •			
During A group Complete From Languages Programmir	ıg.		
It is possible The student From Program it Pages The web	•		
From During A group From Languages Programming.			
It is possible The student From Design Pages Web You work With	Rules		
Data relational stored On The Inte			
It is possible The student From Knock Building Rules Data Effective	e •		
For applications The web And update it Through The Internet			
	•		
It is possible The student From Dealing	•		
With EnvironmentClient-Server			
Outputs The decision And ways		.9	
Education And learning And			
evaluation:		_	
Objectives Knowledge:	- a		
. Enable The student From Knowledge Types And Basi Programming Locations Through Inte			
. Enable The student From Knowledge Languages necessary			
programming Different Types Locations Th	, e		
Enable The student From Knowledge Jobs Basic Which A			
Languages Design And	Programming Private		
On the web.		1	

. Enable The student From Building Locations It works **Effectively Through The Internet.** - B

Objectives Marathi Private

By decision:

- . Iksaab The student Skills Software Especially Programming 1 **Locations On The Internet.**
- . Iksaab The student Skills In Update Programs And discovery And specify Errors Software And how Treating it.
 - . Iksaab The student Skill Analysis The logical one To structure it Rules 3 **Connected data On sites Electronic**

Ways Education And learning

. Meeting Lectures Scientific In Halls Academic And use the 1show) (Data For a purpose **Statement Ideas**

Main for the topic.

- . Guidance The request To Some Locations Electronic 2 For benefit From her.
- . Cost The student Prepared Reports Brief For some Topics And Implementation Duties Household.
 - . A contract Research sessions It is done From During it Explanation And analysis 4 Some Problems A state Ijad Solutions For him.

Ways Evaluation

- . Action Tests Theory In The hall Academic 1) daily, monthly, (final)
- . Subtract Questions And inquiries Oral On The request For a 2 statement Extent Their response.

Organize The request In a way Totals And their cost Completely Requirements Building System Certain And evaluation Percentage Their achievement For that Work. Objectives Existentialism And value. . Encouragement Students On Benefit From The decision From During Faith Importantly The decision In The process Educational And in Field Specialization In a way General. Ability The student To work On performance Duties And deliver 2 it In The appointment The decision. . Development Energies The idea And creativity I have The request From During Implement them To different Duties. . Encouragement The request And raise spirit Competition Among them. . Thinking The logical one In Study Sides The problem And find Solutions appropriate For her. . Development Ability The student On Dialogue 6 and discussion. **Ways Education And learning** . Giving Activities group Importance From During Customize Degrees On Activities group . administration Lecture on A form that works The student He feels Importantly Time. . Encouragement The student On Submission Work Creativity In Specialization Keep up Standards Quality In Service The community. **Wavs Evaluation** Commitment In attendance For a hall The lesson And finish Business The taxpayer With itDuties and reports (Within Timings Specific. . Discussion And participation Effective In Hall 5 The lesson. . It is considered Tests Now, The quarterly And the final About Commitment 6 And collection Cognitive And the skills. Skills Public And qualification movable) Skills Others related Capable - Dr **Employment And development Personal(.** . Development Ability The student On Dealing With 6 Means Technology. . Development Ability The student On Dealing With Internet. . Development Ability The student is on Learn Knock And methods Development Personal Why? After The decision.

Structure The decision:				. 10	
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	Hours	The week
		Html Introduction	HTML	4	The
Questions General And	Theoretical + practical		Language/Design Language		first
discussion					

About New In Field His work.

And discussion.

. Development spirit Creativity And perseverance And search 10

. Development Ability The student On Dialogue

Questions General A discussion or an exam that	Theoretical + practical	HTML Elements	HTML Language	4	The second
Questions General And discussion	Theoretical + practical	HTML Elements	HTML Language	4	Third
Exam I am	Theoretical + practical	HTML List	HTML Language	4	Fourth
Questions General A discussion or an exam that I	Theoretical + practical	HTML Forms	HTML Language	4	Fifth
Questions General And Discussion	Theoretical + practical	HTML Table	HTML Language	4	Sixth
Questions General	Theoretical + practical	HTML Attributes	HTML Language	4	Seventh
Duties group	Theoretical + practical	Introduction/Styling	CSS Language/Forma t Language	4	Eighth

Structure The decision:				. 10	
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	Hours	The week
		HTML With CSS			
Questions General	Theoretical + practical	Elements and Functions in CSS	CSS Language	4	Ninth
Exam Monthly	Theoretical + practical	Elements and Functions in CSS	CSS Language	4	Tenth
Questions General	Theoretical + practical	Programming Basics Identifiers/ Data Types /Arithmetic Operators/ Comparison Operators/ Logical Operators	Java Script/ Programming Language	4	Elev enth
Discussion and Exam I am	Theoretical + practical	Conditional Sentences	JavaScript	4	The secon d
Questions General	Theoretical + practical	Repetition Loops	JavaScript	4	Third Ten
Duties group	Theoretical + practical	Arrays	JavaScript	4	Fou rtee nth
Discussion	Theoretical + practical	Functions	JavaScript	4	Fiftee nth

Structure Infrastructure			. 11
	Prescribed books required	.1	
	References Main (Sources)	. 2	
• Puntambekar, AA, 2020. Internet Programming. Technical Publications.	Books And references	- a	
Grove, R. F., 2009. Web Based Application Development. Jones & Bartlett Publishers.	Recommended scientific) journals),		
	,Reports(
Locations Scientific Sober	References ,electronic Internet sites	- B	
	••••	1	

Model Description The decision

Description of the course: Organization Distributed systems) (Distributed

يوفر وصف المقرر هذا إيجازاً مقتضياً لأهم خصائص المقرر ومخرجات التعلم المتوقعة من الطالب تحقيقها مبرهناً عما إذا كان قد حقق الاستفادة القصوى من فرص التعلم المتاحة. ولابد من الربط بينها وبين وصف البرنامج.

of Wasit University/ College Science Computer And	The	. 1
technology Information	institution	
	Educational	
Section Science Computer	Section	. 2
	University/ The	
	center	
Organization Distributed	Name of the rapporteur	.3
Attendance time) Theoretical and practical(Shapes	. 4
	Attendance	
	available	
Chapter Academic the first/The stage Fourth	Chapter/	.5
	year	
hours 45	Number Hours	. 6
	Academic(total)	
0 1/3/4 202	Date Preparation	.7
	This Description	
Goals The decision		.8
Application Knowledge With	•	
technologies And methodologies Systems		
Distributor.		
Explanation Design And development	•	
Systems Distributor And its applications		
Use Application Knock And algorithms Science Computer	Basic In •	
Development Systems Distributor And its applications		
Systems Distributor.		
Different knowledge Concepts And the mechanisms used In B	uilding •	
Networks Contact Between Different Types Systems Distribut	or	
Outputs The decision And ways	•	.9
Education And learning And		
evaluation:		
Objectives Knowledge:	- a	
Recognition On Vocabulary Article The		

organization Distributor

Recognition On administration Operations In Systems Distributor

Recognition On Different Algorithms used To contact Between Systems Distributor

Ways Education And learning

. Meeting Lectures Scientific In Halls Academic And use the 1show) (Data For the purpose of a statement Ideas

Main for the topic.

- . Use Device Computer In implementation 2 Programs.
- . Guidance Students To Some Locations Electronic For 3 benefit From her.
- . Cost The student By implementing A group From Programs 4 In Laboratories The process.
- . Cost The student Prepared Reports Brief For some Topics And Implementation Duties Household.

Ways Evaluation

- . Implementation Duties Daily 1.
 - . Tests Daily And monthly And the final 2.
- . Participation In Hall The lesson 3.
- . Maintenance On Attendance 4.

Objectives Existentialism And value.	- C
Encouragement Students On Benefit From The decision From During Faith Im	portantly

Encouragement Students On Benefit From The decision From During Faith Importantly 1

The decision In The process Educational And in

Field Specialization In a way General.

Objectives Evistantialism And well

Enhancement Cooperation Between Students From During 2 Execution of duties The process.

Development Energies The idea And creativity I have The request From During 3 Implement them To different Duties.

Encouragement The request And raise spirit 4 Competition Among them.

Ways Education And learning

- . Giving Activities group Importance From During Customize Degrees On Activities 11 group
- . Enable The student From Process Connecting Between 12 side Theoretical And practical.

Ways Evaluation

- . Participation Effective In Hall The lesson Evidence Commitment 19
 The student And you carry it Responsibility.
- Commitment On time specified In Submission Duties 20 And research.
- . It is considered Tests Now , The quarterly And the final About Commitment And 21 collection Cognitive.

Skills Public And qualification movable) Skills Others related Capable - Dr Employment And development Personal(.

- . Skill Education Self And Contact 25.
- Skill administration Time And Data 26
- . Skill administration Individuals And 27 Motivate them.
 - . Skill Work Within A group 28.

Structure The	decision:				. 10
Method Evaluation	Metho d Educat ion	Name Unit/or Topic	Outputs Learning required	Hours	The week
General questions and discussion And an exam	Look	?What are the systems Distributor	Definition The system Distributor	2	The first
Questions General And discussion And an exam	Look	Types Systems Distributor	Definition The system Distributor	2	The second
Questions General And discussion And an exam	Look	Architectural Systems Distributor	Definition The system Distributor	2	Third
Questions General And discussion	Look	Management Self In Systems Distributor	Definition The system Distributor	2	Fourth

And an exam					
Questions General And discussion And an exam	Look	Operations in systems Distributor	Operations	2	Fifth
Questions General And discussion And an exam	Look	Communications basics In Systems Distributor	Operations	2	Sixth
Questions General And discussion And an exam	Look	Messages The wave In Communications	Operations	2	Seventh
General questions and discussion And an exam	Look	Naming And knowledge And the address	Operations	2	Eighth
Questions General And discussion And an exam	Look	Sync in Systems Distributor	Operations	2	Ninth
Questions General And discussion And an exam	Look	Basics Consistency And repetition	Operations	2	Tenth
Questions General And discussion And an exam	Look	Reliability Contact Between Server And the customer	Communications Systems Distributor	2	1st Ten
Questions General And discussion And an exam	Look	Introduction In Security Systems Distributor	Communications Systems Distributor	2	The secon d

Structure The	decision:				. 10
Method Evaluation	Metho d Educat ion	Name Unit/or Topic	Outputs Learning required	Hours	The week
Questions General And discussion And an exam	Look	Systems Document To Objects Distributor	Communications Systems Distributor	2	Third Ten
General questions and discussion And an exam	Look	Systems Files Distributor	Communications Systems Distributor	2	Fou rtee nth
Questions General And discussion And an exam	Look	Systems List On Coordination Distributor	Communications Systems Distributor	2	Fifth Ten

Structure Infrastructure			.11
Principles Systems Distributor And its models	Prescribed books required	.1	
Principles Systems Distributor And its models	References Main(Sources)	. 2	
IEEE Access	Books And references Which Recommended	- a	
	With it), Magazines Scientific ,Reports(
Locations Scientific Sober	,References electronic Locations The Internet	- B	

Plan Development The decision Academic

.12

- Addition or Delete items For the curricula Within Development Scientific The result In Every decision And in proportion No Exceeds 10%
- Keeping up Development Obtained through methods and means Miscellaneous For the decision

Model Description The decision Description The decision: (Algorithms) (Algorithms يوفر وصف المقرر هذا إيجازاً مقتضياً لأهم خصائص المقرر ومخرجات التعلم المتوقعة من الطالب تحقيقها مبرهناً عما إذا كان قد حقق الاستفادة القصوى من فرص التعلم المتاحة. ولابد من الربط بينها وبين وصف البرنامج. University of Wasit/ College Science Computer And technology The institution Educational .1 **Information** Section Science Computer Section University/The center .2 .3 **Analysis And design Algorithms** Name of the rapporteur **Shapes Attendance available** .4 Attendance time(Theoretically and practically) Chapter Academic The first/The stage The fourth Chapter/year .5 .6 An hour 45 **Number Hours Academic(** total) 0 1/3/4 202 **Date Preparation This** .7 **Description** 8. Goals The decision .9 **Outputs The decision And ways Education And learning And** evaluation: a- Objectives Knowledge . Definition With algorithms 2 Application of concepts Algorithms Realization Importance Algorithms In Life The process. . Analysis Algorithms And prefer it On Some 4. . Design Algorithms In a way Professional 5

B- Objectives Marathi Private By

• The ability to Summary The share

. The ability to Read The share Academic And

Capacity For discussion Inside The share

decision:

Academic.

he understood it.

Academic.

. The ability to write Reports and programs Computer Private By academic session.

Ways Education And learning

Supply The student With vocabulary The main one And Help related By design And analysis Algorithms Student prompt With reports Know it Self Pray for him For vocabulary Algorithms Translation Some Algorithms To Programs His computer.

Ways Evaluation

Duties Home, daily exams, surprise exams, monthly exams, exams End The course

C- Objectives Existentialism And value.	
. 1 Work In spirit The group .	
Commitment With ethics Profession And practice side ,2	
Educational Safely.	
Capability On reading The decision ,3	
Academic.	
Capability On Solution Duties Home With his ,4	
enthusiasm.	
Vays Education And learning	
Work Workshops For students And Play Roles And ,1	
Discussion And Expression The heat.	
. Respect Opinion The other And Freedom And Etiquette Expression About Opinion 2	
Personal And Etiquette Discussion.	
Estimate Personal And Feeling competent And Ability On Solution ,3	
Duties Home.	
Encouragement The student On Submission Ideas In the field Specialization Keep 4	
up Standards Quality In Service The community.	
Use Means Clarification Important In The lecture For ease Receipt Article And increase	5
Understanding And connectivity Between Topi	cs.
Vays Evaluation	
 Freedom In Start Destinations Look Different And 	
Participation In Discussions.	
. Help In Solution Duties Home 2.	
Or- Skills Public And qualification movable) Skills Others related Capable	
Employment And development Personal(.	
Development Ability The student On Dealing with Means 31	
Technology Modern.	
Development Ability The student On Dealing 32	
With Internet.	
Development Ability The student is on Learn Knock And methods 33	
Development Personal Why? After The decision.	
Development Ability The student On Dialogue 34	
And discussion.	
evelopment spirit Creativity The example of the student And search About What's new in Field His work.	
Development Estimate Work And carry 36	
Responsibility And commitment.	
Development Respect Time And time In Achievement 37	
And implement Business.	

Structure The decision:					.10
Method Evaluation	Metho d Educa tion	Name Unit/or Topic	Outputs Learning required	Elsa Aat	The week
Exams	Lectu res	general vocabulary	The general structure of the subject and the study vocabulary	2	The first
Exams	Lectu res	Introduction to the article adopt scheme	Define algorithms, their properties, and how to write. write them	2	The second
			Know the		,

Exams	Lectu res	Calculate the of the algorithm in terms of time and steps	complexity of the algorithm in terms of time and execution	2	Third
Exams	Presently T	Recursion	Recursion	2	Fourth
Exams	Lectu res	Solve the assessment methods in the previous 3 lecture. lecture	Study all previous lectures with homewor	2	Fifth
Exams	Lectu res	Sorting, selection, insertion algorithms	Sorting, selection, insertion algorithims with examples and HW	14	Sixth- Twelfth
Exams	Presently T	Programmatically represent the tree	Programmatically represent the tree	4	Third Ten
					Fourth Ten

Structure The decision:				.10	
Method Evaluation	Metho d Educa tion	Name Unit/or Topic	Outputs Learning required	Elsa Aat	The week
			Summer exam	2	Fifteenth

Structure Infrastructure			.11
Essam yolk, Structures Data, 1002•	Prescribed books required	. 1	
•	References Main(Sources)	. 2	
https://www.programiz.com/dsa/algorithm https://www.tutorialspoint.com/data_struc tures_algorithms/index.htm	Books And references Which Recommended With it), Magazines Scientific ,Reports(- a	
https://www.programiz.com/dsa/algorithm https://www.tutorialspoint.com/data_struc tures_algorithms/index.htm	,References electronic Locations The Internet	- B	

Plan Development The decision Academic

.12

- Addition Some vocabulary Curricula Within The approach The decision
- Keeping up Development Obtained by means And the methods Miscellaneous For the decision.
- Addition Everything He New It is useful for the student To acquire skills New And use Recent sources For development Their capabilities.

Description of the course: Systems Activate System) (Operating

of Wasit University/ College Science Computer And	The	. 1
technology Information	institution	
	Educational	
Section Science Computer	Section	. 2
	University/ The	
	center	_
Systems Activate	Name of the rapporteur	.3
work hours My presenceMy view And practical(Shapes	• 4
	Attendance	
	available	
Chapter Academic The first/The stage Fourth	Chapter/	. 5
	year	
An hour 60	Number Hours	. 6
	Academic(total)	
0 1/3/4 202	Date Preparation	. 7
	This Description	
Goals The decision		.8
Recognition On System Operation And Its importance And its features Benefit Development Continuous For this Systems	•	
And recognition On Tasks System Operation.	•	
Recognition On Structural Operating system.	•	
Recognition On administration	•	
Operations And a knock		
Schedule it.		
Recognition On Jobs The task In	•	
System Operation.		
Outputs The decision And ways		.9
Education And learning And		
evaluation:		
Objectives Knowledge:	- a	
Enable The student is from Knowledge 1		
Basics Work Systems Operation.		
. Enable The student From Knowledge 2		
And they understood Jobs Systems		
Operation.		
. Enable The student From Knowledge Jobs Basic 3 Which Availability That one Systems.		
Objectives Marathi Private	- B	
By decision:		
. Aksab The student Skills Dealing With Systems 1		
Oneration		
Operation. Aksah The student Knowledge Private With algorithms Sch	redule 2	
Operation. Aksab The student Knowledge Private With algorithms Sch Operations In The p		

Different Systems Operation.
Ways Education And learning
. Meeting Lectures Scientific In Halls Academic And use the 1show) (Data For the purpose of a statement Ideas
Main for the topic.
. Guidance Students To Some Locations Electronic For 2 benefit From her.
. Cost The student Prepared Reports Brief For some Topics And Implementation Duties 3 Household.
. Episodes Discussion To be treated The problems that He 4 faces it The student By decision.
Ways Evaluation
. Implementation Duties Daily 1.
. Tests Daily And monthly And the final 2.
. Participation In Hall The lesson 3.
. Maintenance On Attendance 4.
Objectives Existentialism And valueC

. Encouragement Students On Benefit From decided by During Faith Importantly The decision In The process Educational And in

Field Specialization In a way General.

- Enhancement Cooperation Between Students From 2 During Implementation of duties.
 - . Development Energies The idea And creativity I have The request From During Implement them To different Duties.
 - . Encouragement The request And raise 4 spirit Competition Among them.

Ways Education And learning

- . Giving Activities group Importance From During Customize Degrees On Activities 1 group
- . administration The lecture On A form that works The 2 student He feels Importantly Time.
- . Encouragement The student On Submission Work Creativity In Specialization 3
 Complies with standards Quality In Service The community.

Ways Evaluation

- . Participation Effective In Hall The lesson Evidence Commitment 1
 The student And you carry it Responsibility.
 - . Commitment On time specified In Submission 2 Duties And research.
 - . It is considered Tests Now, The quarterly And the final About Commitment And collection Cognitive And the skills.

Skills Public And qualification movable) Skills Others related Capable - Dr Employment And development Personal(.

- . Development Ability The student On Dealing 1 With Means Technology.
- . Development Ability The student On Dealing 2 With Internet.
- . Development Ability The student is on Learn Knock And methods Development 3
 Personal Why? After The decision.
 - . Development Ability The student On 4 Dialogue And discussion.
- . Development spirit Creativity And perseverance And search 5 About What's new in Field His work.

	Structure The decision:				. 10
Method Evaluation	4				The week
Questio ns Genera I and discuss ion	Look	Introduction to Computer and OS Structure	Introduction to computers and systems Operation And Its structures And Features This organization	4	The first
General questions and discussion or Exam I am	Look	Introduction to Computer and OS Structure	Introduction to computers and systems Operation And Its structures And Features This organization	4	The second

Questio ns Genera l and discuss ion	Look	Introduction to Computer and OS Structure	Introduction to computers and systems Operation And Its structures And Features This organization	4	Third
Exam I am	Look	Introduction to Computer and OS Structure	Introduction to computers and systems Operation And Its structures And Features This organization	4	Fourth
General questions and discussion or Exam I am	Look	Process Management	Learn how to work Process Management And How Its management And Start it And Conditions Stop it	4	Fifth
Discussion	Look	Process Management	Learn how to work Process Management And How Its management And Start it And Conditions Stop it	4	Sixth
Questions General	Look	Threads	Introduction About theThreads And its types And Synchronize it With Some of them Some	4	Seventh
Duties group	Look	Threads	Introduction About the ThreadsAnd Its types And Synchronize it With Some of them	4	Eighth

		Structure The dec	ision:		. 10
Method Evaluation	Metho d Educa tion	Name Unit/or Topic	Outputs Learning required	Hours	The week
Questions General	Look	CPU Scheduling	Some Learn how special algorithms work Scheduled One unit Treatment ?Central And What is it The differences Between	4	Ninth
Discussion	Look CPU Scheduling CPU Scheduling CPU Scheduling CPU Scheduling CPU Scheduling CPU Scheduling Scheduled One unit Treatment ?Central And What is it The differences Between		4	Tenth	
Questions General	Look	Process Synchronization	Every one of them Introduction About Synchronization Operations Inside a unit Treatment Central And How Its management	4	Elev enth
Discussion / Genera l questio ns	Look	Process Synchronization	Introduction About Synchronization Operations Inside a unit Treatment Central And How Its management	4	Twe lfth
Discussion	Look	Deadlocks	Learn Reasons OccurrenceDeadlocks and how to prevent them from occurring and how to System restore After Its occurrence	4	Thi rtee nth
Duties group	Look	Deadlocks	Learn Reasons OccurrenceDeadlocks And How Prevent Its occurrence And How to restore the system after it ?happens	4	Fou rtee nth
Exam	Exam	Exam	Exam Monthly	4	Fifth Ten

Structure Infrastructure	. 1	11
 OPERATING SYSTEM CONCEPTS by Abraham Silberschatz, Peter Baer Galvin and Greg Gagne. Operating Systems: Internals and Design Principles Prescribed books required	1	
by william stannigs		

	References Main(Sources)	. 2	
	Books And references Which Recommended With it), Magazines Scientific ,Reports(- a	
Locations Scientific Sober	References electronic Locations The Internet	- B	

Plan Development The decision Academic

. 12

- Addition or Delete items For the curricula Within Development Scientific obtained in Every decision And in proportion No Exceeds 10%
- Keeping up Development Obtained through methods and means Miscellaneous For the decision

Description The decision: Processing Pictures Digital) Processing Image (Digital

University of Wasit/ College Science Computer And	The		. 1
technology Information	institution Educational		
Section Science Computer	Sect	ion	. 2
Section Science Computer	University/ T	_	• 2
	cen		
Processing Pictures Digital	Name of the rapporteur		
work hours My presence(Theoretical+ Practical)	Shar	oes	. 4
	Attendar		
	availal	ble	
Chapter Academic The first/The stage Fourth	Chapter/		.5
	year		
An hour 45		er Hours	. 6
0.1/2/4.202	Academi	,	7
0 1/3/4 202	Date Preparat This Descript		.7
Goals The decision	I ilis Descript	1011	.8
Recognition On Principles Basic In		•	
Processing Pictures Digital.		•	
Knowledge Systems Colors used In		•	
Pictures Digital.			
Knowledge Knock Generation Digital images.		•	
Recognition On Different Operations Which You are running Digital For example Enlarge Pictures digital, Improve Picture digital, transfers Which You are running On Pictures Digital A Knowledge Knock Improve images Digital.	s	•	
Outputs The decision And ways Education And learning And evaluation:			.9
Objectives Knowledge:		- a	
. Definition The student With pictures Digital And System Processing Pictures Digital And Its components Ba			
. Definition The student In a field 14 Use Pictures Digital.			
. Iksaab The student Knowledge By installation The 15			
picture And How Represent it And Store it By calculation.			
Iksaab Requesting systems Colors used In Pictures An	d How		
Transfer From Pictures C Gray.	olortul Tõ		
. Definition The student In 17			
a way Enlarge the image.			
Iksaab The student With knowledge 18			
Private With improvement Pictures.			
Objectives Maratin Private		- Б	

By decision:
Knowledge By design And Writing And Program . 9
development Which Related By treating Pictures.
. Knowledge By design And Writing And Development Algorithms Which Related By 10
treating Pictures.
. Enable The student From Solution The problems associated 11
With programmes Processing Pictures.
. Enable The student From Work Within His group To solve Problems associated 12

Ways Education And learning

. Meeting Lectures Scientific In Halls Academic And use the 11show) (Data For the purpose of a statement Ideas

With programmes Processing Pictures.

Main for the topic.

- . Use Device Computer In implementation 12 Programs.
- . Guidance Students To Some Locations Electronic For 13 benefit From her.
- . Cost The student By implementing A group From Programs 14
 In Laboratories The process.
 - . Cost The student Prepared Reports Brief For some Topics And Execution of duties 15 Household.

Ways Evaluation

- . Implementation Duties Daily 9.
 - . Tests Daily And monthly And the final 10.
- . Participation In Hall The lesson 11.
- . Maintenance On Attendance 12.

C- Objectives Existentialism

And value.

. Encouragement Students On Benefit From The decision From During Faith 9
Importantly The decision In The process Educational And in Field Specialization In a way General.

Enhancement Cooperation Between Students From During 0 Execution of duties The process.

Development Energies The idea And creativity I have The request From During 1 Implement them To different Duties.

Encouragement The request And raise spirit 2 Competition Among them.

Ways Education And learning

- . Giving Activities group Importance From During Customize Degrees On Activities 5 group
- . Enable The student From Process Connecting Between 6 side Theoretical And practical.

Ways Evaluation

- . Participation Effective In Hall The lesson Evidence Commitment The student And you carry it Responsibility.
- . Commitment On time specified In Submission Duties 8
 And research.
- . It is considered Tests Now, The quarterly And the final About Commitment 9
 And collection Cognitive And the skills.

Dr- Skills Public And qualification movable Employment And development Personal(.

) Skills Others related Capable

. Skill Education Self And Contact 9.

Skill administration Time And Data 10.

- . Skill administration Individuals And 11 Motivate them.
 - . Skill Work Within A group 12.

Structure The	Structure The decision:				
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	Hours	The week
scussion/ General questions	Theoretical + practical	Introduction to Image Processing	Knowing what the pictures mean Digital And What ?is it Processing Pictures Digital	4	The first
Discussion/ Questions General/ Real time test	Theoretical + practical	Computer Imaging system	Knowledge Systems Digital image processing	4	The second

scussion/ General questions	Theoretical + practical	Digital Image file format	wledge Types And Structure Image file	4	Third
scussion/ General questions	Theoretical + practical	Digital Image Representation	Acting The picture And How Store it In Calculator and Sampling Quantization	4	Fourth
scussion/ General questions	Theoretical + practical	Region Of Interest Image Geometry	Select Area Attention In the picture	4	Fifth
scussion/ General questions	Theoretical + practical	Color Image Types	Types Pictures Digital	4	Sixth
scussion/ General questions	Theoretical + practical	Basic Retionships between Pixels	Knowledge Relationships Basic ,between pixels ,commerce	4	Seventh

Structure The	decision:				. 10
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	Hours	The week
			ontact, path, The area and boundaries of the object		
Discussion/ Questions General	Theoretical + practical	Image Zooming	Knowing the ways Enlarge The picture	4	Eighth
Discussion/ Questions General	Theoretical + practical	Image Zooming	Knowing the ways Enlarge The picture	4	Ninth
scussion/ General questions	Theoretical + practical	Arithmetic operation on Image	rations Sports On the picture	4	Tenth
scussion/ General questions	Theoretical + practical	Logic operation onImage	perations The region On the picture	4	Elev enth
scussion/ General questions	Theoretical + practical	Image Enhancement	Learn about improving images Digital And Roads used	4	Twe lfth
scussion/ General questions	Theoretical + practical	Image Edge Detection	Knock Ejaad Edges Digital images	4	Thi rtee nth
Discussion/ Questions General	Theoretical + practical	Image Segmentation	Knock Cutting Pictures Digital	4	Fourth Ten
Exam	Exam Comprehen sive	Exam Comprehensive	Exam Comprehensive	4	Fifth Ten

Structure Infrastructure				
• Rafael C. Gonzalez & Richard E. Wood, "Digital Image Processing", 2/E, Prentice-Hall 2001	Prescribed books required	.1		
 Scott E. Umbangh, "Computer Vision and Image Processing", Prentice-Hall 1998 Nick Efford, "Digital Image Processing, a Practical Approach Using Java", Pearson Eduction 2000 	References Main(Sources)	. 2		
John R. Jensen, "Introduction Digital Image", 3/E, Prentice-Hall, 2005	Books And references Which Recommended With it), Magazines Scientific ,Reports(- a		
Locations Scientific Sober	,References electronic Locations The Internet	- B		

• Addition or Delete items For the curricula Within Development Scientific The	
result In Every decision And in proportion No Exceeds 10% • Keeping up Development Obtained through methods and means	
Miscellaneous For the decision	

Model Description The decision

Description The decision: Internet Things things) Of (Internet

يوفر وصف المقرر هذا إيجازاً مقتضياً لأهم خصائص المقرر ومخرجات التعلم المتوقعة من الطالب تحقيقها مبرهناً عما إذا كان قد حقق الاستفادة القصوى من فرص التعلم المتاحة. ولابد من الربط بينها وبين وصف البرنامج.

TI · · · · · · · · · · · · · · · · · · ·	7873		
University of Wasit/ College Science Computer And	The		. 1
technology Information	institution		
	Educational	·•	
Section Science Computer	Sect		. 2
	University/ T		
Y , , , mil *		iter	_
Internet Things	Name of the ra	pporteur	.3
Attendance time (Theoretical and practical(Sha	_	. 4
	Attenda		
	availa	ble	
Chapter Academic the second/The stage Fourth	Chapter/		. 5
	year		
An hour 45	Numb	er Hours	. 6
	Academi	ic(total)	
0 1/3/4 202	Date Prepara	tion	.7
	This Descrip	tion	ļ
Goals The decision			. 8
• It is considered Internet Things (IoT) For example	The revolution	The next one	
In Field Computing.It works Billions From Devices Pump			
Data connected On the Internet Indeed On Cl	nange Method	Our lives And	
we worked In a way Radical. Provides This T	he decision Th	ey are deeply	ı
For technologies Internet Things. He will lea	rn Students P	rogramming	
Devices Internet ThingsArduino) And Pi (I			
Sensor And operation, And protocolsZigbee Io			
.etc) , network interface design and security imp			
for the Internet IoT, Internet of Things based or			
Students will be directed toAWS. During pra			ı
them practical experience in the real world, W	•	- ·	
monitoring service A distributed, cloud-base			
serves dozens of users Thousands of sensors P			
From That. He will come out Students Fr	om Chapter	By teaching	
Developed In This Sector	mt Taalya Whial	h Thav	
emerging technology Quickly , And with confidence To impleme will face her Usually In Environments Industrial.	ent Tasks which	n They	
Outputs The decision And ways			.9
Education And learning And			.,
evaluation:			
Objectives Knowledge:		- a	
. Enable The student is from 1		a	-
Knowledge For technologies Internet			
Things			
. Enable The student From Learn 2			-
Programming Devices Internet Things.			
. Enable The student From Knowledge 3			
Protocols Internet Things.			

. Supply The student With concepts About Internet Things Document To The cloud Platforms For exampleIoT .AWS . Building Networks Approved 5 On Internet Things. **Objectives Marathi Private** - B By decision: . Iksaab The student Capacity On They are engineering Internet 1 Things And the world Caller. Iksaab The student Possibility Discovery And Use Different Devices And technologies Sensor To build Applications Internet Things. . Iksaab The student Skills Building Applications Internet Things In Time The 3 real one To create A world Smart. Iksaab The student Possibility They understand Services cloud available And an interface Programming Applications Communications To develop **Ways Education And learning** . Meeting Lectures Scientific In Halls Academic And use the 1show) (Data For the purpose of a statement Ideas Main for the topic. . Guidance Students To Some Locations Electronic For benefit From her.

. Cost The student Prepared Reports Brief For some Topics And Implementation Duties Household.

. Episodes Discussion To be treated The problems that He faces it The student By decision. **Ways Evaluation** . Implementation Duties Daily . Tests Daily And monthly And the final 2. . Participation In Hall The lesson . Maintenance On Attendance Objectives Existentialism And value. . Encouragement Students On Benefit From decided by During Faith Importantly The decision In The process Educational And in Field Specialization In a way General. . Enhancement Cooperation Between Students From **During Implementation of duties.** . Development Energies The idea And creativity I have The request From During Implement them To different Duties. . Encouragement The request And raise spirit **Competition Among them.** Ways Education And learning . Giving Activities group Importance From During Customize Degrees On Activities group . administration The lecture On A form that works The student He feels Importantly Time. . Encouragement The student On Submission Work Creativity In Specialization **Complies with standards Quality In Service The community. Ways Evaluation** . Participation Effective In Hall The lesson Evidence Commitment The student And you carry it Responsibility. . Commitment On time specified In Submission Duties 2 And research. . It is considered Tests Now, The quarterly And the final About Commitment And collection Cognitive And the skills. Skills Public And qualification movable) Skills Others related Capable - Dr **Employment And development Personal(.** . Development Ability The student On Dealing With Means Technology. . Development Ability The student On Dealing With Internet. . Development Ability The student is on Learn Knock And methods Development Personal Why? After The decision. **Development Ability The student On Dialogue** And discussion.

		Structure The decision	on:		. 10
Method Evaluation	Metho d Educat ion	Name Unit/or Topic	Outputs Learning required	Hours	The week
Questions General	Look	Definition and characteristics Internet	Definition and characteristics	2	The first

About What's new in Field His work.

. Development spirit Creativity And perseverance And search

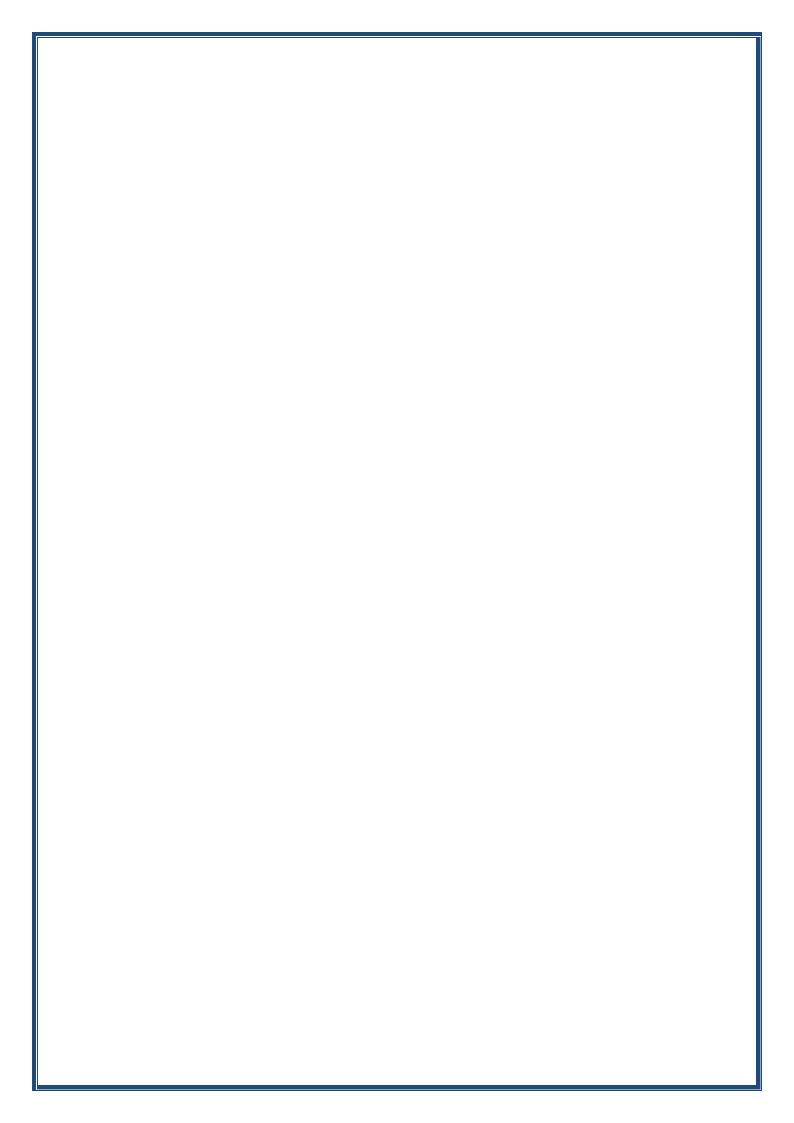
And discussion		Things	Internet Things		
General questions and discussion or Exam I am	Look	Design Material Internet Things	esign Material Internet of things	2	The second
Questions General And discussion	Look	Design The logical one Internet Things	Design The logical one Internet Things	2	Third
Exam I am	Look	Architectural And protocolsIOT	Architectural And protocols IOT	2	Fourth
General questions and discussion or Exam I am	Look	Platforms Different Internet Things	orms Different Internet of things	2	Fifth
Questions General And Discussion	Look	Examples In Time The actual one Internet Things	Realistic examples Internet Things	2	Sixth

		Structure The decision	on:		. 10
Method Evaluation	Metho d Educat ion	Name Unit/or Topic	Outputs Learning required	Hours	The week
Questions General	Look	Internet challenges Things	Internet challenges Things	2	Seventh
Duties group	Look	IoT and M2M	IoT and M2M	2	Eighth
Questions General	Look	Model Reference Internet Things	Model Reference Internet Things	2	Ninth
Exam Monthly	Look	Big data And the Internet Things	Big data And the Internet Things	2	Tenth
Questions General	Look	Sensors With Arduino	Devices Sensor With Arduino	2	1st Ten
Discussion and Exam I am	Look	Devices Sensor With Raspberry Bye	Devices Sensor With Raspberry Bye	2	The second Ten
Questions General	Look	Platforms cloud ForIOT	Platforms cloud For IOT	2	Third Ten
Duties group	Look	Cities Memory	Cities Memory	2	Fou rtee nth
Discussion	Look	Environment As a reminder	Environment As a reminder	2	Fiftee nth

Structure Infrastructure		
 Adrian McEwen, Hakim Casually, —Designing the Internet of Things , John Wiley and Sons 2014. Francis daCosta, "Rethinking the Internet of Things: A Scalable Approach to Connecting Everything , A press publications, 1st Edition, 2013. 	Prescribed books required	.1
•	References Main(Sources)	. 2
•	Books And references Which Recommended With it), Magazines Scientific ,Reports(- a
Locations Scientific Sober	,References electronic Locations The Internet	- B

12

- Addition or Delete Vocabulary For the curricula Within Development Scientific obtained in Every decision And in proportion No Exceeds 10%
- Keeping up Development The result In ways and means Miscellaneous For the decision



Model Description The decision

Description of the course: Security Computers And networks security) network and (Computer

يوفر وصف المقرر هذا إيجازاً مقتضياً لأهم خصائص المقرر ومخرجات التعلم المتوقعة من الطالب تحقيقها مبرهناً عما إذا كان قد حقق الاستفادة القصوى من فرص التعلم المتاحة. ولابد من الربط بينها وبين وصف البرنامج.

١. المؤسسة التعليمية جامعة واسط/ كلية علوم الحاسوب وتكنولوجيا المعلومات ٧٠ القصم الجامعي/ المركز ضم علوم الحاسوب ١٠ اسم المقرر امنية الحواسيب والشيكات ١٠ القصل السنة القصل السنة ١٠ عدد الساعات الدراسية (الكلي) 60 ساعة ١٠ المعلق الدراسية (الكلي) 00 ساعة ١٠ التعرف على مقهوم فوارز ميات التشفير. ١٠ التعرف على مقهوم فوارز ميات التشفير. ١٠ التعرف على نواع خورزميات التشفير. ١٠ الإهداف المعرفية: ١٠ الإهداف المعرفية: ١٠ الأهداف المعرفية ببناء خورزميات التشفير. ١٠ الكساب الطالب المعرفية ببناء خورزميات التشفير. ١٠ التعليف الطالب المعرفية ببناء خورزميات التشفير. ١٠ التعليف الطالب المعرفة ببناء خورزميات التشفير. ١٠ التعليف الطالب بالمعرفة ببناء خورزميات التشفير. ١٠ التعليف الطالب بالمعرفة ببناء خورزميات التشفير المواطبة من المقرر من خلال الايمان باهمية المقرر في المعرف ألم المعرفة الطالب من خلال تنفيذ الواجبات المعلية التعليمية والمهمية. ١٠ المواظبة على الحضور. ١٠ المواظبة على الحضور. ١٠ المواظبة على الحضور. ١٠ المواظبة على الحضور. ١٠ المنظررة في قاعة الدرس. ١٠ تخو		,	•
7. اسم المقرر منية الحواسيب والشبكات 3. أشكال الحضور المتأخة نوام حضوري (نظري وعملي) 9. القصل / السنة الفصل الدراسية (الكلي) 16 مساعة 7. عزيخ إعداد هذا الوصف 16 ساعة A. العداف المقرر 4. العداف المقرر ٩. تطوير مهارات الطالب في التشفير. و تطوير مهارات الطالب في التشفير. ٩. تطوير مهارات الطالب في التشفير. و التعرف على أنواع خور زميات التشفير. ٩. المداف المعرفية: الاهداف المعرفية: ٩. تعرف الطالب مجالات التشفير. 17 تعرف الطالب بمجالات التشفير. ٩. تعرف الطالب بمجالات التشفير. 17 تعرف الطالب بمجالات التشفير. طرائق التعلم والتعلم والتعلم والتعلم والتغيم: 18 المرابب المعرفة بيناء خور زميات التشفير. طرائق التعلم والتعلم والتعلم الله بمجالات التشفير أليرامية واستخدام إلى (Data show) لغرض بيان الأفكار. ١٠ استخدام جهاز الحصور في تنفيذ البرامج في المختبرات العملية. 1 المضاركة في قاعة المرس. ١٠ المضاركة في قاعة المرس. 2 المضاركة في قاعة المرس. ١٠ المطالب بنفيذ الواجبات اليومية والنهائية. 2 المطالب والمية والنهائية. ١٠ المضاركة في قاعة المرس. 1 المضاركة في قاعة المرس. ١٠ المواطبة على الحضور. 1 المضاركة في قاعة المرس. ١٠ المواطبة على الحضور بشكل التغيذ الواجبات العملية. ١٠ المضاركة الت	٠.١	المؤسسة التعليمية	جامعة واسط/ كلية علوم الحاسوب وتكنولوجيا المعلومات
3. أشكال الحضور المتاحة دوام حضوري (نظري وعلي) 4. الفصل / السنة الفصل الدراسية (الكلي) 60 ماعة 7. عدد المباعات الدراسية (الكلي) 60 ماعة 8. تاريخ إعداد هذا الوصف ١٠ الترفي على مفهوم خوارزميات التشفير. 9. تطوير مهارات الطالب في فوارزميات التشفير. 10. الترفي على انواع خورزميات التشفير. 10. الترفي على انواع خورزميات التشفير. 11. الاحداف المعرفية: 12. الاحداف المعرفية: 13. المعرف على انواع خورزميات التشفير. 14. المعرف الطالب مجالات استخدام خورزميات التشفير. 15. المورف الطالب بمجالات استخدام خورزميات التشفير. 16. الأوسية المحاضرات العلمية في القاعات الدراسية واستخدام ال (Data show) لغرض بيان الأفكار 17. الشد الطلاب الى بعض المواقع الأكثرونية للإفادة منها. 18. المشاركة في قاعة الدرس. 19. التخفير الواجبات اليومية. 19. التخفير الواجبات اليومية. 19. الاختيارات اليومية والشهرية والنهائية. 19. المضاركة في قاعة الدرس. 19. الأرادة التخليل الطلب على الاحضور. 19. الأرادة التعاون بين الطلاب من خلال تنفيذ الواجبات العملية المقرر في العملية التعليد.	٠,٢	القسم الجامعي / المركز	قسم علوم الحاسوب
٥. الفصل / السنة الفصل الداسية (الكلي) الفصل الدراسي الاول / المرحلة الرابعه ٢. عدد الساعات الدراسية (الكلي) 60 ساعة ٧. تاريخ إعداد هذا الوصف ١٠ انترف على مفهوم خوارزميات التشفير. ٠ انتطوير مهارات الطالب في خوارزميات التشفير. ٠ انتطوير مهارات الطالب في خوارزميات التشفير. ٠ انتطوير مهارات الطالب في الخواجد والتقيم: ١٠ الأهداف المعرقية: ١٠ تعرفي الطالب بمجالات التشفير. ١٠ تعرفي الطالب بمجالات التشفير. ١٠ تعرف الطالب بمجالات التشفير. ١٠ تعرف الطالب بمجالات التشفير. ١٠ المناب الطالب المعرفة ببناء خورزميات التشفير. ١٠ الرنيسية المحضوع. ١٠ الرنيسية المحضوع. ١٠ المتخدام جهاز الحاسوب في تنفيذ البرامج. ١٠ الرنيسية المحضوع. ١٠ الرنيسية المحضوع. ١٠ المخد الطالب بنتفيذ مجموعة من البرامج في المختبرات العملية. ١٠ المخد الطالب بنتفيذ محموعة من البرامج في المختبرات العملية. ١٠ المختبرات اليومية. ١٠ المضارعة في قاعة الدرس. ١٠ المضارعة في قائمية. ١٠ المضارعة في قائمية. ١٠ المضارة في العضور. ١٠ المضارعة في المحضور. ١٠ الموافية على التخصص بشكل على المقرر من خلال الإيمان باهمية المقرر في العملية التعلية. ١٠ المعرفي التعلي	۳.	اسم المقرر	امنية الحواسيب والشبكات
١. حدد الساعات الدراسية (الكلي) 60 ساعة ٧. تاريخ إعداد هذا الوصف ٢٠٠٢4/3/10 ٨. اهداف المقرر التعرف على مفهوم خوارزميات التشفير. • تطوير مهارات الطالب في خوارزميات التشفير. • تطوير مهارات الطالب في خوارزميات التشفير. • التعرف على انواع خورزميات التشفير. • التعرف على انواع خورزميات التشفير. ١. الإهادف المعرفية: ٠. العرف الطالب مهالات التشفير. ١٠. الكساب الطالب المعرفة ببناء خورزميات التشفير. طرائق التعليم والتعليم والتعليم اللهاب المعرفة ببناء خورزميات التشفير. ١٠ اكساب الطالب المعرفة ببناء خورزميات التشفير. ١٠ المنابسة للموضوع. ١٠ المشاد الطلاب الى بعض المواقع الاكترونية الإفادة منها. ١٠ الشاد الطلاب الى بعض المواقع الاكترونية الإفادة منها. ١٠ التغير الطالب باعداد تقارير مختصرة لبعض المواضيع و تنفيذ الواجبات المزلية. ١٠ المشاركة في قاعة الدرس. ١٠ المشاركة في قاعة الدرس. ١٠ المشاركة في قاعة الدرس. ١٠ المساركة في قاعة الدرس. ١٠ الاهداف الوجدانية والقهدية. ١٠ الاهداف الوجدانية والقهدية. ١٠ الاهداف الوجدانية والقهدية. ١٠ الأولان التخصص بشكل على الاستفادة من المقرر من خلال الايمان باهمية المقرر في العملية التعليد.	٤.	أشكال الحضور المتاحة	دوام حضوري (نظري وعملي)
٧. كاريخ إحداد هذا الوصف ٢٠ ٢4/3/10 ٨. هداف المقرر التعرف على مفهوم خوارزميات التشفير. • تطوير مهارات الطالب في خوارزميات التشفير. • تطوير مهارات الطالب في خوارزميات التشفير. • التعرف على انواع خورزميات التشفير. • التعرف على انواع خورزميات التشفير. ١. الإهداف المعرفية: ٠.١ تعريف الطالب مجالات التشفير. ٠.٢ تعريف الطالب بمجالات التشفير. طرانق التعليم والتعلم ٠.٢ تعريف الطالب المعرفة ببناء خورزميات التشفير. ١٨ الشاء المحاضرات العلمية في القاعات الدراسية واستخدام ال (Data show) لغرض بيان الأفكار ١٨ ارشاد الطلاب الي بعض المواقع الاكترونية للإفادة منها. ١٠ استخدام جهاز الحاسوب في تنفيذ البرامج في المختبرات العملية. ١٠ التنفيذ الواجبات الموالب بتنفيذ مجموعة من البرامج في المختبرات العملية. ١٠ التخليل الطالب باعداد تقارير مختصرة لبعض المواضيع و تنفيذ الواجبات المنزلية. ١٠ المشاركة في قاعة الدرس. ١٠ المساركة في قاعة الدرس. ١٠ المواظبة على الحضور. ١٠ المواظبة على الحضور. ١٠ الأهداف الوجدانية والقهيمية. ١٠ تعزيز التعاون بين الطلاب من خلال تغفيذ الواجبات العملية المقرر في العملية.	.0	الفصل / السنة	الفصل الدراسي الاول / المرحلة الرابعه
٨. الخداف المقرر • التعرف على مفهوم خوارزميات التشفير. • تطوير مهارات الطالب في التشفير. • تطوير مهارات الطالب في التشفير. • التعرف على انواع خورزميات التشفير. • الأهداف المعرفية: • الأهداف المعرفية: • الأعداف المعرفية: • ا تعريف الطالب مجالات التشفير . • ١٠ القاء المحاضرات العلمية في القاعات الدراسية واستخدام ال (Data show) لغرض بيان الأفكار طرانق التعليم والتعلم والتعلم والمحتفر العالم بيان الأفكار الرئيسة للموضوع . • ا المستخدام جهاز الحاسوب في تنفيذ البرامج . • ا ستخدام جهاز الحاسوب في تنفيذ البرامج . • ا ستخدام جهاز الحاسوب في تنفيذ البرامج . • ا المثل با با عداد تقارير مختصرة لبعض المواضيع و تنفيذ الواجبات المنزلية . • ا المشاركة في قاعة الدرس . • ا المشاركة في قاعة الدرس . • الأهداف الوجبانية والقهية .	٦.	عدد الساعات الدراسية (الكلي)	60 ساعة
	٠,٧	تاريخ إعداد هذا الوصف	Y·Y4/3/\0
	٠,	اهداف المقرر	
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التعرف على انواع خورزميات التشفير مخرجات المقرر وطرانق التعليم والتعليم الرئيسية للموضوع. 17 القاء المحاضرات العلمية في القاعات الدراسية واستخدام ال (Data show) لغرض بيان الأفكار ولا استخدام جهاز الحاسوب في تنفيذ البرامج. 18 تكليف الطالب الى بعض المواقع الاكترونية للإفادة منها. 19 تكليف الطالب بتنفيذ مجموعة من البرامج في المختبرات العملية. 31 الاختبارات اليومية والشهرية والنهائية. 31 الاختبارات اليومية والشهائية. 31 المصاركة في قاعة الدرس. 32 الامتفادة على الحضور. 33 الأهداف الوجدائية والقيمية. 34 الشعلي على الاستفادة من المقرر من خلال الايمان بأهمية المقرر في العملية التعليمية وفي مجل التخصص بشكل عام. 3 تعزيز التعاون بين الطلاب على الاستفادة من المقرر المتعلية. العملية. 3 تعزيز التعاون بين الطلاب من خلال تنفيذ الواجبات العملية. 3 تعزيز التعاون بين الطلاب من خلال تنفيذ الواجبات العملية. 3 تعزيز التعاون بين الطلاب من خلال تنفيذ الواجبات العملية.		• تطوير مهارات الطال	ب في خوارزميات التشفير.
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. ١٩ تكليف الطالب بتنفيذ مجموعة من البرامج في المختبرات العملية. . ٢٠ تكليف الطالب بإعداد تقارير مختصرة لبعض المواضيع و تنفيذ الواجبات المنزلية. طرائق التقييم . ١٠ تنفيذ الواجبات اليومية. . ١٠ الاختبارات اليومية والشهرية والنهائية. . ١٠ المشاركة في قاعة الدرس. . ١٠ المواظبة على الحضور. . ١٠ المواظبة على الحضور. . ٣٠ تشجيع الطلاب على الاستفادة من المقرر من خلال الايمان بأهمية المقرر في العملية التعليمية وفي مجال التخصص بشكل عام. . ٢٠ تعزيز التعاون بين الطلاب من خلال تنفيذ الواجبات العملية.		.۱۷ استخدام جهاز	الحاسوب في تنفيذ البرامج.
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. الاختبارات اليومية والشهرية والنهانية المشاركة في قاعة الدرس المواظبة على الحضور الأهداف الوجدانية والقيمية تشجيع الطلاب على الاستفادة من المقرر من خلال الايمان بأهمية المقرر في العملية التعليمية وفي مجال التخصص بشكل عام تعزيز التعاون بين الطلاب من خلال تنفيذ الواجبات العملية.		·	
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" تشجيع الطلاب على الاستفادة من المقرر من خلال الايمان بأهمية المقرر في العملية التعليمية وفي مجال التخصص بشكل عام. 2 تعزيز التعاون بين الطلاب من خلال تنفيذ الواجبات العملية.			
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و تنمية الطاقات الفكرية والإبداعية لدى الطلبة من خلال تنفيذهم لمختلف الواجبات.		٤ تعزيز التعاون	بين الطلاب من خلال تنفيذ الواجبات العملية.
		٥ تنمية الطاقات	الفكرية والإبداعية لدى الطلبة من خلال تنفيذهم لمختلف الواجبات.

Encouragement The request And raise spirit 6 Competition Among them.

Ways Education And learning

- . Giving Activities group Importance From During Customize Degrees On Activities 7 group
- . Enable The student From Process Connecting Between 8 side Theoretical And practical.

Ways Evaluation

- . Participation Effective In Hall The lesson Evidence Commitment 13 The student And you carry it Responsibility.
- . Commitment On time specified In Submission Duties 14 And research.
 - . It is considered Tests Now , The quarterly And the final About Commitment And 15 collection Cognitive.

Dr- Skills Public And qualification movable Employment And development Personal(.

) Skills Others related Capable

- . Skill Education Self And Contact 17.
- . Skill administration Time And Data 18
- . Skill administration Individuals And 19 Motivate them.
 - . Skill Work Within A group 20.

Structure The	decision:				. 10
Method Evaluation	Metho d Educat ion	Name Unit/or Topic	Outputs Learning required	Hours	The week
[Assessment]		introduction	Key distribution concept	3	The first
		Random number. number generator	Random number. number generator concepts	3	The second
[Familiarity]		Prime number. number and primarily test. test	How to find. find prime. prime number. number	3	Third
[Assessment]		Public key cryptosystem	Public key. key cryptosystem concept	3	Fourth
[Familiarity]		Diffie- Hellman system	Key exchange. exchange secret session key. key	3	Fifth
[Assessment]		Digital signature	How to make digital signature	3	Sixth
[Assessment]		Elgamal cryptosystem	Elgamal cryptosystem concepts	3	Seventh
[Familiarity]		Hash function	How to use hash function to authenticate message.	3	Eighth

[Familiarity]	Malware:-virus, Trojan horse and worm	Malware concepts	3	Ninth
[Assessment]	introduction	Key distribution concept	3	Tenth
	Random number. number generator	Random number. number generator concepts	3	1st Ten
[Familiarity]	Prime number. number and primarily test. test	How to find, find prime, prime number, number	3	The secon d
[Assessment]	Public key. key	Public key. key	3	Third

Structure The	decision:				. 10
Method Evaluation	Metho d Educat ion	Name Unit/or Topic	Outputs Learning required	Hours	The week
		cryptosystem	cryptosystem concept		Ten
[Familiarity]		Diffie- Hellman system	Key exchange secret session key. key	3	Fou rtee nth
Exam	Exam Compr ehensiv e			3	Fifth Ten

Structure Infrastructure			.11
William Stallings, Cryptography and Network Security: Principles and Practice, 6/E, Pearson Education, Inc., 2014.	Prescribed books required	.1	
Mark Stamp, Information Security Principles and Practice, John Wiley & Sons, 2006	References Main(Sources)	. 2	
	Books And references Which Recommended With it), Magazines Scientific ,Reports(- a	
Locations Scientific Sober	,References electronic Locations The Internet	- B	

.12

- Addition or Delete items For the curricula Within Development Scientific The result In Every decision And in proportion No Exceeds 10%
- Keeping up Development Obtained through methods and means Miscellaneous For the decision

Model Description The decision

Description of the course: Computing cloud Computing) (Cloud

يوفر وصف المقرر هذا إيجازاً مقتضياً لأهم خصائص المقرر ومخرجات التعلم المتوقعة من الطالب تحقيقها مبرهناً عما إذا كان قد حقق الاستفادة القصوى من فرص التعلم المتاحة. ولابد من الربط بينها وبين وصف البرنامج.

of Wasit University/ College Science Computer And	The		. 1
technology Information	institution		
	Educational		
Systems Department Information Computer	Sect	ion	. 2
	University/ T	he	
	cen	ter	
Computing cloud	Name of the ra	pporteur	. 3
Attendance time) Theoretical and practical(Shaj	pes	. 4
_	Attendar	ice	
	availa	ble	
Chapter Academic The second/The stage Fourth	Chapter/		. 5
	year		
An hour 45	Numbe	er Hours	. 6
	Academi	c(total)	
0 1/3/4 202	Date Preparat	tion	. 7
	This Descript	tion	
Goals The decision			. 8
Aims This Course To Supply Students At a glance Genera	l About Conce	pts	
And basics Computing Cloud.Includes			
Topics Which It will happen Eating it: Concepts General Mod Computing cloud	els Computing	cloud ,basics	
,Cloud computing architecture and management	nt, cloud deploy	yment models	
technology drivers Method for cloud comput	ting, models	Service cloud	
, simulation Default , Models Programming 1	Private By com	puting cloud,	
software development In cloud, Networks For	computing cl	oud Provided	
Services cloud, Support Open Source			
For the cloud Security In Computing cloud, Concepts Adv	anced In		
Computing Cloud.			
Outputs The decision And ways			• .
Education And learning And			
evaluation: Objectives Knowledge:		2	
•		- a	4
. Enable The student From Knowledge 1			
Basics Computing Cloud.			-
. Enable The student From Knowledge 2			
Architectural Computing Civata.	<u> </u>		

. Enable The student From Knowledge Jobs Basic Which Availability Computing Cloud. . Enable The student From Knowledge 4 Simulation The default.Virtualization Objectives Marathi Private By decision: . Iksaab The student Skill Building Network Computer 1 And how Sustain it. Iksaab The student Skill Convert Simulation Computing Cloud About A was Simulator NetworksPacket Tracer . Iksaab The student Skills Simulation The default 3 Virtualization . Ways Education And learning . Meeting Lectures Scientific In Halls Academic And use the 1show) (Data For	
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And how Sustain it. Iksaab The student Skill Convert Simulation Computing Cloud About A was Simulator NetworksPacket Tracer Iksaab The student Skills Simulation The default 3 Virtualization. Ways Education And learning	
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Simulator NetworksPacket of Tracer Iksaab The student Skills Simulation The default 3 Virtualization . Ways Education And learning	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
. Iksaab The student Skills Simulation The default 3 Virtualization . Ways Education And learning	
. Iksaab The student Skills Simulation The default 3 Virtualization . Ways Education And learning	Cisco
Ways Education And learning	
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Mosting Leatures Scientific In Halls Academic And use the Labory (Data Ex	
. Meeting Lectures Scientific in frans Academic And use the Ishow) (Data Fol	r the
purpose of a statement l	ldeas
Main for the topic.	
. Guidance Students To Some Locations Electronic For 2	
benefit From her.	
. Cost The student Prepared Reports Brief For some Topics And Implementation Dut	ties 3
Household.	
. Episodes Discussion To be treated The problems that He 4	
faces it The student By decision.	
. Guidance Students To Some Locations Electronic For 5	
benefit From her.	
Ways Evaluation	
. Implementation Duties Daily 1.	
. Tests Daily And monthly And the final 2.	

. Participation In Hall The lesson 3. . Maintenance On Attendance Objectives Existentialism And value. -C . Encouragement Students On Benefit From decided by During Faith Importantly The decision In The process Educational And in Field Specialization In a way General. . Enhancement Possibilities The student In 2 Thinking The logical one. . Development Energies The idea And creativity From During Enhancement Ability Search and Survey And Analysis And Deduction. . Encouragement The request And raise spirit Competition Among them. **Ways Education And learning** . Giving Activities group Importance From During Customize Degrees On Activities group . administration The lecture On A form that works The student He feels Importantly Time. . Enable The student From Process Connecting Between 3 side Theoretical And practical. . Encouragement The student On Submission Work Creativity In Specialization Complies with standards Quality In Service The community. **Ways Evaluation** Commitment In attendance For a hall The lesson And finish Business The taxpayer With itDuties and reports (Within Timings Specific. . Discussion And participation Effective In Hall The lesson. Skills Public And qualification movable) Skills Others related Capable - Dr **Employment And development Personal(.** . Development Ability The student On Dealing With Means Technology. . Development Ability The student On Dealing With Internet. . Development Ability The student is on Learn Knock And methods Development 3 Personal Why? After The decision. . Development Ability The student On Dialogue And discussion. . Development spirit Creativity And perseverance And search About What's new in Field His work.

Structure The decision:				. 10	
Method Evaluation	Metho d Educat ion	Name Unit/or Topic	Outputs Learning required	Hours	The week
Discussion/ Questions General	Look	Introduction In Models Computing cloud	General concepts Models Computing cloud	2	The first
Questions General/ iscussion/ My exam	Look	Basics Computing cloud	Basics Computing cloud	2	The second

Questions General/ Discussion Exam I am	Look Look	Architectural Computing cloud And its management Publication models The cloud	Architectural Computing cloud And its management Publication models The cloud	2	Third Fourth
General questions/ discussion/ Exam I am	Look		tives Technology For cloud computing	2	Fifth
Questions General/ Discussion	Look	Service models cloud	Service models cloud	2	Sixth
Questions General	Look	Simulation Default	Simulation Default	2	Seventh
Duties group	Look	Programming models Private By cloud computing	Programming models Private By cloud computing	2	Eighth
Questions General	Look	Development Software In The cloud	Development Software In The cloud	2	Ninth
Exam Monthly	Look	Networks For computing cloud	Networks For computing cloud	2	Tenth
Questions General	Look	Service providers cloud	Service providers cloud	2	1st

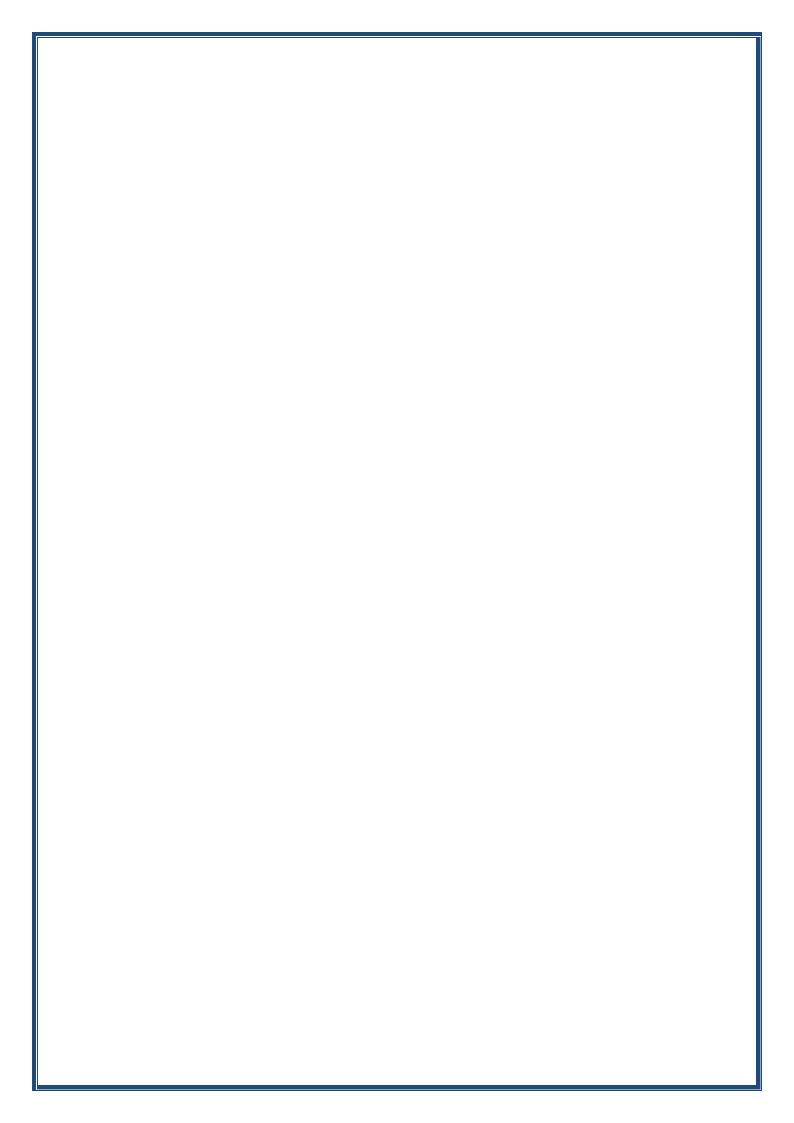
Structure The	Structure The decision:				. 10
Method Evaluation	Metho d Educat ion	Name Unit/or Topic	Outputs Learning required	Hours	The week
					Ten
iscussion/ My exam	Look	Support Open Source For the cloud	Support Open Source For the cloud	2	Twe lfth
Questions General	Look	Security In Computing cloud	Security In Computing cloud	2	Third Ten
Duties group	Look	Concepts Advanced In Computing Cloud.	Concepts Advanced In Computing Cloud.	2	Fourt h Ten
Discussion	Look	Concepts Advanced In Computing Cloud.	Concepts Advanced In Computing Cloud.	2	Fifth Ten

Structure Infrastructure			. 11
 "Essentials of Cloud Computing", K Chandrasekaran, 2014 "Cloud Computing For Dummies", Judith S. Hurwitz , Robin Bloor, Marcia Kaufman, Fern Helper, 2009 	Prescribed books required	.1	
	References Main(Sources)	. 2	
	Books And references Which Recommended With it), Magazines Scientific ,Reports(- a	
Locations Scientific Sober	,References electronic Locations The Internet	- B	

. 12

- Addition or Delete items For the curricula Within Development Scientific obtained in Every decision And in proportion No Exceeds 10%
- Keeping up Development Obtained through methods and means Miscellaneous For the decision

المؤسسة التعليمية جامعة واسط/كلية علوم الحاسوب وتكنولوجيا المعلومات	٠.١
القسم الجامعي / المركز Model Description The decision	۲.
اسم المقرر إنكليزي 4	۳.
أشكال الحضور المتاحة English (A) (English ين Description The decision)	٠٤
الفصل / السنة. وصف المقرر هذا إيجازاً مقتضياً لأهم خصائص المقرر ومخرجات التعلم المتوقعة من الطالب تحقيقها مبرهناً عما إذا كان قد حقق	٥
وصف العارب هذا إنجاز المستحديد لا مع حسائص العور و محرجات النظم المتوقعة من الطالب تحقيقها مبرها عنا إذا عال عد عفق عدد الساعات الدر اسية (الكلي) بادة القصوى من قرص التعام المتاحة. و لابد من الربط بينها وبين وصف البرنامج. تاريخ إعداد هذا الوصف	الأسان
تاريخ إعداد هذا الوصف ٢٠٢٤/٥/١٥	٧
اهداف المقرر	٠,٨
 تعلم المهارات الأساسية للغة الإنكليزية 	
 تعلم اساسیات مهارة القراءة 	
• تعلم اساسيات مهارة الكتابة	
• القدرة على الأصغاء	
• فهم المعاني واضافة مفردات جديدة	
• تعلم التكلم والمناقشة باستخدام مفردات اللغة	-
مخرجات المقرر وطرائق التعليم والتعلم والتقييم:	٠٩
أ- الأهداف المعرفية:	
١. القدرة على قراءة نصوص اللغة بشكل صحيح	=
۲. القدرة على كتابة فقرات بشكل مترابط	-
.٣ القدرة على وصف مكونات اي موضوع	-
.٤ القدرة على وصف مخططات بشكل فقرات مترابطة	-
ب- الأهداف المهاراتية الخاصة بالمقرر:	
١٠ اكتساب المهارة على المناقشة باستخدام مفردات اللغة	-
. ٢ تنمية مهارات الطالب للعمل ضمن فريق وفهم الواجبات الخاصة وانجازها ضمن مدة	-
طرائق التعليم والتعلم	
١٠ إدارة المحاضرة على نحو يشعر بأهمية الوقت.	
. ٢ تكليف الطالب ببعض الأنشطة والواجبات الجماعية.	-
٣. تخصيص نسبة من الدرجة للأنشطة الجماعية.	-
طرائق التقييم	
١٠ المشاركة الفاعلة في قاعة الدرس دليل التزام الطالب وتحمله المسؤولية.	-
٢٠ الالتزام بالموعد المحدد في تقديم الواجبات والبحوث.	
. تعبر الاختبارات الفصلية والنهائية عن الالتزام والتحصيل المعرفي والمهاري.	-
ج- الأهداف الوجدانية والقيمية.	
١٠ تطوير قدرة الطالب للعمل على أداء الواجبات وتسليمها في الموعد المقرر.	-



Development Ability The student On Dialogue And discussion.	. 2			
Ways Education And learning				
Giving activities group Importance From During Customize Degrees On Activities The group.	.1			
administration The lecture On Shape It works The student He feels Importantly Time.	. 2			
Encouraging the student On Submission Work Creativity In Specialization Keep up Standards Quality In Service The community.	.3			
Ways Evaluation				
Commitment In attendance For a hall The lesson And finish Business The taxpayer With itDuties and reports (Within Timings Specific.	.1			
Discussion And participation Effective In Hall The lesson.	. 2			
Method of interrogation And that About A way Show Questions Related With the material Scientific In The hall Academic.	.3			
Dr- Skills Public And qualification movable Output Dr- Skills Public And qualification movable Employment And development Personal(.				
This Article I will Build In The student Capacity On Thinking And communication Between him And between His colleagues others In Same The subject and other materials, and this is very important to improve the students' relationship with each other. The student will also develop his				
ability to think and Use Language English In Communication With others Whether It was That Inside His surroundings or In Various End The world.				

Structure The decision:					. 10
Method Evaluation	Method Education	Name Unit/or Topic	Outputs Learning required	Hours	The week
Questions General And discussio n	Look	Getting to Know you		2	The first
Questions General And discussi on Or an exam I am	Look	The way. way we live		2	The second
Questions General And discussio n	Look	It all went wrong		2	Third
Exam I am	Look	Let's go. go shopping. shopping		2	Fourth
Questio ns Genera l and discuss ion	Look	What do. do you want to do?		2	Fifth

Questions General And Discussion	Look	Tell me! What's it like?	2	Sixth
Questions General	Look	Case studies or exercises: test, revision, more examples	2	Seventh
Group	Look	Present Perfect, Fame	2	Eighth
assign ments				
Questions General	Look	Do's and don'ts	2	Ninth
Questions General	Look	Going Places (Time clauses)	2	Tenth
Questions General	Look	Scared to death (Verb Patterns)	2	1st Ten
Discuss ion and examin ation I	Look	Things that Changed the world	2	Twe lfth
Questions General	Look	Earning a living	2	Third Ten
Duties group	Look	Family ties	2	Fourt h Ten
Discussion	Look	Case studies or exercises: Test, exercises, revision.	2	Fiftee nth

Structure Infrastructure			11
Soars & John, (2006). New Headway plus (Pre- Intermediate)Oxford University Press.	Prescribed books required	.1	
	References Main(Sources)	. 2	
	Books And references Which Recommended With it	- a	
), Magazines Scientific ,Reports(
Locations Electronic	,References electronic	- B	
Specialized	Locations The Internet		

12

- Addition or Delete Vocabulary For the curricula Within Development The result In Every decision And in proportion Do not exceed.% 10
- Keeping up Development The result In ways and means Miscellaneous For the decision Addition Everything He New It is useful for the student To acquire Skills New And keep up Development The

result.