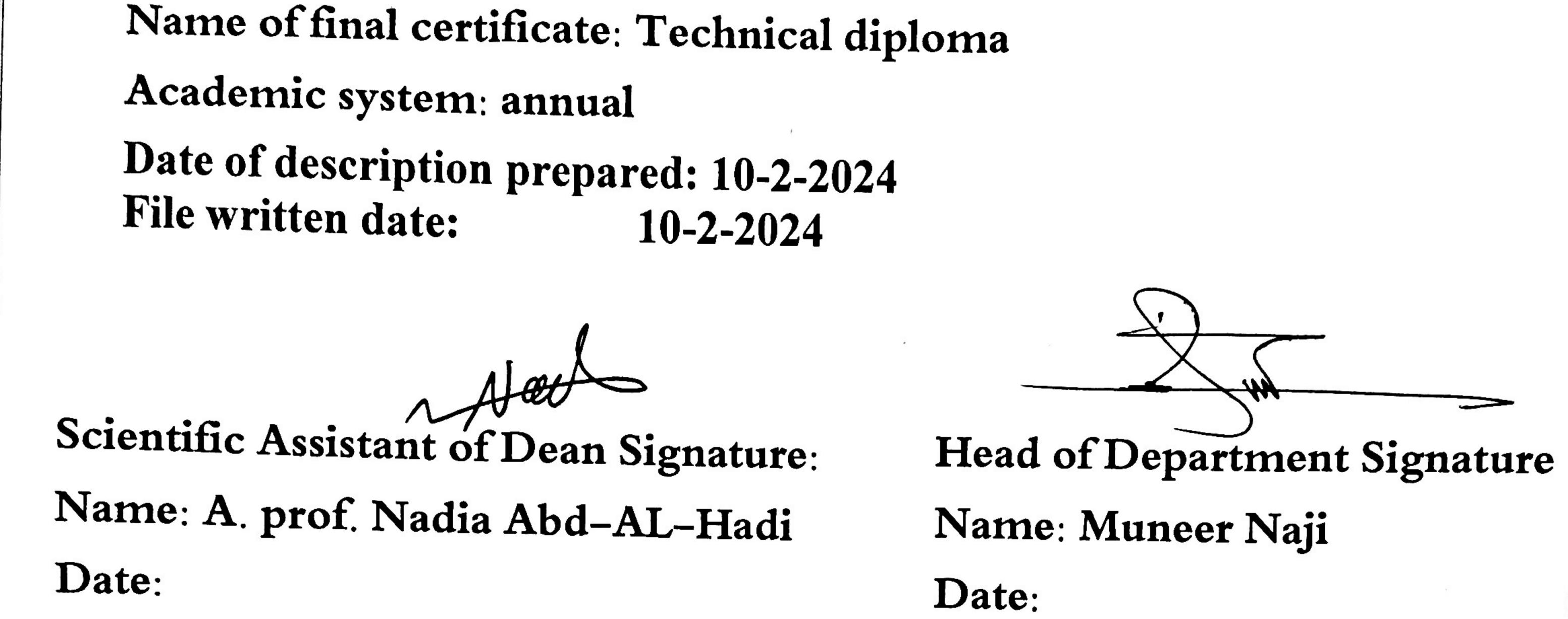
Ministry of Higher Education and Scientific Research Supervision and Scientific Evaluation Body Quality Assurance and Academic Accreditation Department Accreditation Division



# Academic program and course description guide

# 2024

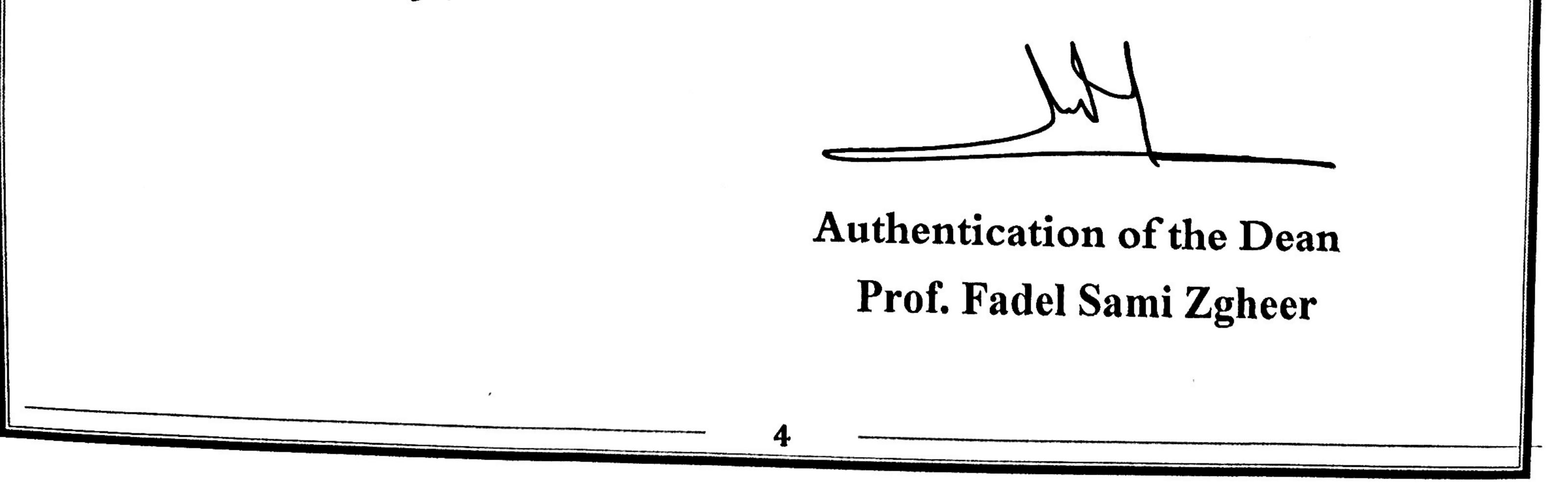
Academic program description form University name: Al-Furat Al-Awsat Technical University College/Institute: Technical Institute/Kufa Scientific Department: Mechanical Technics Department Name of the academic or professional program: Production



File Check From:

The Division of Quality Assurance and University Performance. Name of the Director of the Quality Assurance and University Performance Division: Kholoud Muzaffar

Date: Signaturé:



### **Description of the academic program**

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

Al-Furat Al-Awsat University	1. Educational institution
Technical Institute/Kufa _Department of Mechanical Technologies/Production Branch	2. Scientific department /center
Department of Mechanical Technologies	<ol> <li>Name of the academic or professional program</li> </ol>
Technical Diploma	4. Name of the final certificate
Annual system	5. : Study system annual/courses/others
ABET Engineering majors	6. Accredited accreditation program
.Public sector and private sector	7. Other external influences
2024/2/10	8. Date the description was prepared
9. : Objectives of the academic program	

9. : Objectives of the academic program

The Department of Mechanical Technology aims to graduate technical cadres who will be a link between the specialist and the skilled worker. The department prepares and prepares the graduate and provides him with theoretical, applied and practical .information to be able to carry out the work assigned to him

### **10.:** program outcomes and teaching, learning and evaluation methods

<sup>j</sup> - Cognitive goals				
Machine parts -1 1	Mathematics -1			
2/12Manufacturing processes	Mechanics -2			
Minerals -3 1	Manufacturing processes/1 -3			
ccupational management and safety -4 1	Engineering drawing -4			
Computer applications/2 -5 1	Applications Computer/1 -			
Industrial drawing-16	Material properties-6			
Factor /2 -17	Human rights -7			
The project-18	Factor /1 -8			
English language/2-19	English language/1 -9			
	.Electricity technology – 10			

### **B** - The program 's skill objectives

- 1. .Learn about the basic principles of mechanical devices
- 2. Calculating skills related to the subject of devices, machines, and mechanical properties
- 3. Identify the mechanical properties of materials
- 4. How to protect and maintain mechanical devices

### **Teaching and learning methods**

(Lectures, laboratories, workshops, summer training, projects)

### **Evaluation methods**

(monthly exams, daily exams, oral exams, final exams)

### .C- Emotional and value goals

- **1**. The student's ability to calculate mechanical ability
- 2. The student learned ways to protect machines and equipment
- 3. The student learns mechanical calculations and knowledge of the properties of materials

### **Teaching and learning methods**

3

(Lecture, laboratory, workshops, summer training, projects)

### **Evaluation methods**

(Monthly exams, daily evaluation, oral exams, final exams)

# **D** - General and qualifying transferable skills ( other skills related to . (employability and personal development

- 1. .Using ready-made systems such as (AutoCAD...)
- 2. CNC . programmed machines
- 3. .Preparing computers (formatting them) and inserting software into them
- 4. .Knowledge of the workings of mechanical testing devices
- 5. English

### **Teaching and learning methods**

,Lectures, laboratories, workshops, summer training, methodological training) (projects

### **Evaluation methods**

(Monthly exams, daily evaluation, oral exams, final exams)

### **Program structure -11**

Credit he My theo	1		Name of the course or course	Course or course code	
	20	13	Department of Mechanical Technologies	_	The first stage
	19	11	Department of Mechanical Technologies	_	The second phase
Departm	ent of N	Aechanica	gree for the al Technology 0 = 1890 credit hours	Certificates and credit	hours -12

### Planning for personal development -13

- 4

Admission standard (setting regulations related to admission to the college or -14 (institute

### Average: 55% and more: Branch graduated from: Scientific + Industrial

The most important sources of information about the program -15

Development plan for the Department of Mechanical Technology (prescribed curricula, lectures and Internet resources)

												Cu	rricu	lum s	skills	chart				
		Р	lease	ch	neck	the <b>k</b>	oxes	corr	espon	ding	to th	e ind	ividu	al lea	rning	g outc	omes from the p	orogram subje	ct to evaluatio	n
			Lear	niı	ng o	utcoi	nes r	equir	ed fr	om th	ie pro	ogran	nme							
q	oyabi	ving ole sl relate lity a	cills ed to and				nal a goal				ojecti ogran			Cogi obje	nitive ctives		Basic Or optional	Course Name	Course Code	Year/level
D4	D3	D2	D1	. (	C4	C3	C2	C1	<b>B</b> 4	B3	B2	B 1	A4	A3	A2	A1				
/	/	/	/		/	/	/	/		/	/	/	/	/	/	/		Technologi		
																	Basic	es Mechanica I		The first

/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	Basic	Technologi es Mechanica l	the second

1. :Course Name								
Manufacturing pro	ocesses	/ 2						
2. Course Coc	le							
3. Semester/ y	vear							
2024-2023								
4. Date this de	escriptic	on was prep	pared					
2024-4-5								
	5. A. Available attendance forms							
	Actual presence							
	6. Number of study hours (total)/number of units (total) hours - 2- Theoretical - 2- Practical 4							
Number of								
	he cou		istrator (if more than one nar	ne is	5			
: Atu- Nam	ne: M. N	/Iuneer Naj	i Waheed Al <u>Muneer.wheed@a</u>	<u>itu.e</u>	<u>du.iq</u>			
8. objectives 0	Course							
<ul> <li>.The ability f</li> <li>.Preparing f</li> <li>. Conduct pr</li> <li>Preparing</li> </ul>	to analyz he techno reliminar operat and cal	e processes ological path y calculatio ing cards culating o	pared to contribute to the following into operating components a between production units ns of operating costs and orders for each unit and perating time elements and lo	eac	h			
9. Teaching a	nd learr	ning strateg	jies					
Strategies and inte the educational pr		methods th	nat make the learner the focus of	f	The stra			
10. Course struct	ture				1			
Evaluation method	Learn ing meth od	Name of the unit or topic	Required learning outcomes	hours	the week			
	and		,Identify geometric tolerances	12	- First			

Group discussions	and practica method	Measure ment parameter s	Gauges, design of gauges, types of gauges (internal gauges, external gauges, adjustable gauges, solid (gauges, special gauges	4	the fourth
Group discussions	and practica method	Classifica tion of minerals	,Classification of metal fabrication metal working, introduction to the theory of blade formation and influencing factors, methods of fixing artifacts, including round and non-round objects, the cutting edges used, and the longitudinal and transverse feed shares.	4	Fifth
Group discussions tests + reports +	Interact and practica method	g turning pens and	Identifying the types of angles of turning pens, the effect of angles of ,turning pens on the cutting process ,types of metals of turning pens cutting conditions, cutting ,elements, uses of cutting speeds and the use of tables and speed maps, classification of cutting tools according to operating methods .and number of cutting edges	12	Sixth- eighth
Group discussions tests + reports +	and practica method	Operating cards	How to conduct an operating card for a group of operations, calculate its components, and calculate the cutting time for each operation	8	Ninth- tenth
Group discussions tests + reports +	-	Lathe and turning machines	,Turret turning machines automatic, studying the processes that can be operated and analyzing the processes on the product, how .to prepare operating cards	12	Elevent h- thirteent h
Group discussions tests + reports +	and practica method	milling	Milling, learning about the operations that can be performed on milling machines, parts and components of horizontal and vertical milling machines, and the .nature of the work of each part	28	Fourtee nth- twentiet h
Group discussions tests + reports +	and practica method	skimming	Skimming: Introduction to the ,types of planers (trolley, hopper vertical), operations performed on the planing machine, operating capabilities available with each machine, methods of attaching the .work	12	Twenty- - first twenty- third
Group discussions tests + reports +	and practica method	Grinding and grinding machines	Grinding: Introduction to the theory of cutting and the shape of ,the blade in the grinding process the grinding stones used ,circumferal, face, side, cup) external, internal), their	8	Twenty- - fourth twenty- fifth

			specifications and uses, attachment .methods and balances				
Group discussions	-	Making employm ent cards	Preparing a comprehensive operating card for all cutting .operations	4	twenty- sixth		
Group discussions tests +	and practica method Forming		,Metal forming: theory of forming foundations of cold and hot .forming, types of forming	16	Twenty- seventh- thirty		
11. Course eva	luation						
Distribution of the gr .preparation, daily, or			ding to the tasks assigned to the studen exams, reports, etc	t, suc	ch as daily		
12. Learning an	id teach	ning resour	rces				
Metal manufacturing edition - written by Musawi			Required textbooks (methodology, if any)				
Introduction to produ	ction eng	gineering	Main references (sources)				
Production engineeri dimensional design	ng techn	ology and	Recommended supporting books a (scientific journals, reports)	nd r	eferences		
			Electronic references, Internet sites				

### 4h

And the course	e class mathematics
1. Course Name	
mathematics	
2. Course Code	
DMP125	
3. Semester/ year 2024–2023	
	1
4. Date this description was pre 2024-4-7	pared
5. A. Available attendance form	
My presence	
6. Number of study hours (total)	)/number of units (total)
n(2), h(0), h(4)	
(mentioned	nistrator (if more than one name is Riyadh Nehme Alnawres.riyadh.iku@atu.edu
8. objectives Course	
Introducing the student to	Objectives of the study subject
the use of mathematics in	
other scientific topics and	
increasing his ability to	
think logically when solving	
exercises, as well as	
increasing his ability to	
develop and how to link	
data with his information to	
obtain a solution to the	
.problem	
9. Teaching and learning strate	gies
	The strategy

10. Course	structure								
Evaluation	Learning	Name of the		Required	hours	the			
method	method	unit or topic	;	learning		week			
				outcomes					
	Му	Matrices		Operations on	2	the			
	presence			matrices and		first			
				determinants					
11. Course	e evaluation	11. Course evaluation							
,	•		0	to the tasks assign		studen			
such as daily theoretical 2 year's work	y preparation,	daily, oral, mo ⊦ class particip	nthly,	to the tasks assigr written exams, rep ⊦ attendance and co	orts, etc				
such as daily theoretical 2 year's work 12. Learni	y preparation, 0 (assignments +	daily, oral, mo ⊢ class particip ng resources <b>ts Series</b>	nthly, ation ⊣	written exams, rep	orts, etc	nt) 10			
such as daily theoretical 2 year's work 12. Learni , Schum	y preparation, 0 (assignments - ng and teachin <b>m's Abstrac</b> t	daily, oral, mo ⊢ class participa ng resources ts Series ers, 1977	nthly, ation + Requ	written exams, rep	orts, etc ommitmer	nt) 10			
such as daily theoretical 2 year's work 12. Learni , Schum	y preparation, 0 (assignments - ng and teachin <b>m's Abstract</b> <b>Frank Aye</b> Im <b>Briefs Ser</b>	daily, oral, mo ⊢ class participa ng resources ts Series ers, 1977	nthly, ation ⊣ Requ Main	written exams, rep	orts, etc ommitmer thodology	nt) 10			
.such as daily theoretical 2 year's work 12. Learni , Schum Schau books	y preparation, 0 (assignments - ng and teachin <b>m's Abstract</b> <b>Frank Aye</b> Im <b>Briefs Ser</b>	daily, oral, mo ⊢ class participa ng resources ts Series ers, 1977 ies ourth, fifth, a	nthly, ation 4 Requ Main Reco	written exams, rep + attendance and co ired textbooks (me references (source	orts, etc ommitmer thodology es) ting boo	nt) 10 v, if any ks and			
.such as daily theoretical 2 year's work 12. Learni , Schum Schau books sixth	y preparation, 0 (assignments - ng and teachin m's Abstract Frank Aye um Briefs Ser s taught to fo grade student	daily, oral, mo ⊢ class participang resources ts Series ers, 1977 ies ourth, fifth, a ts	nthly, ation - Requ Main Recor	written exams, rep + attendance and co ired textbooks (me references (source mmended suppor	orts, etc ommitmer thodology es) ting boo irnals, rep	nt) 10 v, if any ks and orts			

## And the course class Computer applications 2

1. Course	Name								
Computer app									
2. Course	Code								
3. Semeste	er/ year								
2024-2023									
4. Date the	is description	was prepared							
2023-4-7									
5. A. Available attendance forms									
<ul><li>My presence</li><li>6. Number of study hours (total)/number of units (total)</li></ul>									
,,	) N (1) - A (2) - H6 .(								
	7. Name of the course administrator (if more than one name is								
(mentioned : Nari -Name: Nawres Rivadh Nehmeh Al									
: Nari -Name: Nawres Riyadh Nehmeh Al nawres.riyadh.iku@atu.edu.iq									
	•	shaer Thamer Al -	Amli						
8. objectiv	es Course								
•		to using the 2D		s of the	study				
	• •	gram(AutoCAD 2l eld of specializatio	· ·						
	ng and learnin								
	-	and practical applica	ation	The					
		1 11		strat	egy				
10. Course s				_					
Evaluation	Learning	Name of the unit	Required learning	hours	the .				
method	method	or topic	outcomes		week				
		Introduction to theAutoCAD	Principles of the AutoCAD	3	the				
		program ,	program ,		first				
			Screen settings						
			(Snap, Limit,						
			Grid, Pan,						
11. Course	ovaluation		Zoom,)						
II. Course	evaluation								

Distribution of the grade out of 100 according to preparation, daily, oral, monthly, written exams theoretical 20 practical 20 year's work (attendance + duties + re	s, reports, etc					
12. Learning and teaching resources						
nothing	Required textbooks (methodology, if any)					
The Internet	Main references (sources)					
nothing	Recommended supporting books and references (scientific journals, reports)					
Type the name of the topic in Google or YouTube	Electronic references, Internet sites					

### And the course class Computer Applications (1)

		-					
1. Cours	se Name						
Computer A	pplications (	1)					
2. Course Code							
DMP 126							
3. Seme	ster/year						
2024-2023							
4. Date t	his description	on was prepared					
2024/4/7							
5. Available attendance forms							
My pre	esence						
6. Numb	er of study h	ours (total)/num	per of	f units (total)	)		
) N (1	) - A (2) - He	6.(					
7. Name (menti		se administrator	(if mc	ore than one	nam	ne i	S
:	Nazari -	Name: Naw	res	Riyadh	1	Neł	ime
nawre	s.riyadh.iku@	@atu.edu.iq		-			
		aa Fadel Al-Amli					
8. object	ives Course						
A- Introduci	ng the stude	nt to the calculat	or (	Objectives o	f the	stu	idy subje
with an idea	about its pro	ospects and use		-			
in various fie	elds and the	principles of					
programmin	g and giving	him skill in using	g				
the calculate	or to impleme	ent programs					
previously p	repared for a	application in his					
.field of spec	cialization						
B_ Introduci	ng the stude	ent to using Wind	ows				
and AutoCA	D with appl	ications in his fie	ld c				
.specializati							
9. Teach	ing and lear	ning strategies					
					ד	The	strategy
Using illustrative methods and practical application							
10. Course structure							
Evaluation	Learning	Name of the	-	uired	hou	rs	the
method method unit or topic learning week						week	
			outo	comes			
	Power	Hardware	Intro	oduction	3		the
point and software :to computers first						first	
		components	their	r			

	,generations :components hardware and software system) software and application .(software
11. Course evaluation	
,the student, such as daily preparation, .reports, etc theoretical 20 practical 20	dany, orai, montiny, written exams
year's work (attendance + duties + rep	orts) 10
year's work (attendance + duties + rep 12. Learning and teaching resources	/
	,
12. Learning and teaching resource	s Required textbooks (methodology
12. Learning and teaching resources nothing	s Required textbooks (methodology (any

### And the course class The crimes of the Baath regime in Iraq

1. :Course Name

The crimes of the Baath regime in Iraq

2. Course Code

3. :Semester/Year

AD 2024-2023

4. :Date this description was prepared

AD 2024-14-2

5. A. Available attendance forms

6. : Number of study hours (total)/number of units (total) .Number of hours (30) and number of units (2)

7.	Name of the course administrator (if more than one name is
	:(mentioned

:Amiel - Name: Al A.M.D. Mudar Sabah Abdel moder.sabah@atu.edu.iq

8. objectives Course

- Introducing the crimes of the Baath reg Objectives of the study subject .committed against the Iraqi people
- Finding out some facts that are hid from the Iraqi people regarding t .crimes
- Students' insight into the period of t preceding the Baathist regin .misleading media attacks

9. Teaching and learning strategies

- Strategies and interactive methods that make The strategy learner the focus of the educational process

10. Course	10. Course structure							
Evaluation	Learning	Name of the	Required learning outcomes	hours	the week			
method	method	unit or tonic						

Oral diagnostic	Interactive methods	The concept of crimes and their types	Identify the terms mentioned in the stu material	1	the first
Group discussio	Interactive methods	Crime departme	Review the crime sections and distinguish between them	1	the second
Group discussio	Interactive methods	Documenting B crimes		1	the third
Group discussio	Interactive methods	Types international crin	Learn about international crimes and t	1	the fourth
Group discussio	Interactive methods		Review the decisions issued by the I	1	Fifth
Group discussio	Interactive methods	Psychological crimes	Learn about the concept of psycholog crimes	1	VI
Group discussio	Interactive methods	Mechanisms psychological crimes	Identify the mechanisms of psycholog crimes		Seventh
Group discussio	Interactive methods	Psychological effects of crimes	Identify the negative effects psychological crimes	1	VIII
Group discussio	Interactive methods	Social crimes	Identify social crimes	1	Ninth
Group discussio	Interactive methods	Militarization society	Learn about the methods of militariz society	1	The tenth
Group discussio	Interactive methods	The Baat regime's position religion	Identify his negative attitudes tow religion	1	eleventh
Group discussio	Interactive methods	Violations of I laws	View violations of Iraqi laws	1	twelveth
Group discussio	Interactive methods	Pictures of hur rights violations	Learn about the crimes of power aga the people	1	Thirteenth
Group discussio	Interactive methods	Some decis	Learn about some political and mili violations	1	fourteenth
Group discussio	Interactive methods		View a number of places of detention the Baathist regime	1	Fifteenth
Group discussio	Interactive methods	Environmental crimes	Learn about environmental crimes	1	sixteen
Group discussio	Interactive methods	Military radiation pollutio	Identify the types of pollution	1	seventeenth
Group discussio	Interactive methods	scorched e policy	See the effects of destruction of cities	1	eighteen
Group discussio	Interactive methods		Learn about the policy of draining marshes	1	nineteenth
Group discussio	Interactive methods	Razing orchards trees		1	The twentieth
Group discussio	Interactive methods		Viewing the mass graves of the people	1	21st
Group discussio	Interactive methods	Chronology of n graves	View the history of the regime's n graves	1	twenty tow
Group discussio	Interactive methods	0	See some sources related to the acade subject	1	twenty third
Group discussio	Interactive methods	'Khan Al- Cemetery	See some sources related to the st material: Khan Al-Rub' Cemetery	1	twenty fourth

Group discussio	Interactive methods	Al-Zarka Cemete	net See some sources related to the acade 1 2! subject		25th		
Editorial - writin reports		Daily - quarterly	Tests	4	twenty-sixth		
11. Course ev	11. Course evaluation						
,Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily .oral, monthly, written exams, reports, etc							
12. Learning and teaching resources							
Crimes of the Baath regime in Iraq against public a Required textbooks (methodology, if any) private universities							
			Main references (sources)				
			Recommended supporting books and references (scientific				
			(journals, reports				
	Electronic references, Internet sites						