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

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

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

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Concepts and terminology:

<u>Academic Program Description:</u> 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.

Academic Program Description Form

University Name:								
Faculty/Institute:								
Scientific Department:								
Academic or Professional Program Name:								
Final Certificate Name:								
Academic System:								
Description Preparation Date:								
File Completion Date:								
Signature:	Signature:							
Head of Department Name:	Scientific Associate Name:							
Date:	Date:							
The file is absolved by								
The file is checked by:	J							
Department of Quality Assurance and U	·							
Director of the Quality Assurance and Un	niversity Performance Department:							
Date:								
Signature:								

Approval of the Dean

Program vision is written here as stated in the university's catalogue and website. 2. Program Mission Program mission is written here as stated in the university's catalogue and website. 3. Program Objectives General statements describing what the program or institution intends to achieve. 4. Program Accreditation Does the program have program accreditation? And from which agency? 5. Other external influences					
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5. Other external influences					
5. Other external influences					
5. Other external influences					
or other external linderices					
le there a sponsor for the program?					
Is there a sponsor for the program?					
6 Program Structure					
Program Structure Number of Credit hours Percentage Reviews•					
Courses					
Institution					
Requirements College					
Requirements					

Department		
Requirements		
Summer Training		
Other		

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

Year/Level	Course C	ode	Course Name		Credit Hours			
				theoretical	practical			
	-							
8. Expected	d learning	outcor	nes of the progr	am				
Knowledge								
Learning Outcomes	1	Learnin	g Outcomes Statemer	nt 1				
Skills								
Learning Outcomes	2	Learning Outcomes Statement 2						
Learning Outcomes	3	Learning Outcomes Statement 3						
Ethics								
Ethics Learning Outcomes	4	Learnin	g Outcomes Stateme	nt 4				
			g Outcomes Statemer					
Learning Outcomes								
Learning Outcomes Learning Outcomes	S	Learnin	g Outcomes Statemer					
Learning Outcomes	S	Learnin	g Outcomes Statemer					
Learning Outcomes Learning Outcomes 9. Teaching ar	s nd Learnin	Learning	g Outcomes Statement	nt 5	mplementation of			
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Learning Outcomes Learning Outcomes 9. Teaching and le	s nd Learnin earning stra general.	Learning ng Stra	g Outcomes Statement	nt 5	mplementation of			

11. Faculty							
Faculty Members							
Academic Rank	Specialization		Special Requirement (if applicab		Number of the teaching sta		
	General	Special			Staff	Lecturer	
Professional Develop	pment						
Mentoring new faculty r	nembers						
Briefly describes the proce		to mentor n	new, visiting, f	ull—time,	and part—tin	ne faculty at	
the institution and departr			. 3,	- ,	,	•	
Professional developme			pers				
Briefly describe the acade				nt plan a	nd arrangeme	nts for faculty	
such as teaching and lear			•	-	-	•	
development, etc.	3			3			
12. Acceptance Criterion							
(Setting regulations rela	ited to en	rollment ir	n the college	or institu	ute, whether	central	
admission or others)							
13. The most impo	ortant so	ources o	f information	on abo	ut the prog	ram	
13. The most impost State briefly the source						ram	
						ram	

	Program Skills Outline														
Required program Learning outcomes															
Year/Level	Course Code	Course Name	Basic or	Knov	vledge			Skills	5			Ethics			
			optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	C3	C4

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

Course Description Form						
1. (Course l	Name:				
Cryptog	graphy					
2. (Course (Code:				
required	l					
3. 9	Semeste	er / Year:				
Fourth s	stage, fir	st semester				
4.]	Descrip	tion Preparation Da	ite:			
2-4-202		•				
5. 1	Availabl	e Attendance Forms:	•			
Attendan	ce					
		of Credit Hours (To	tal) / Number of Unit	ts (Total)		
60 hour	S					
7. (Course	administrator's nar	me (mention all, if r	nore than one	e name)	
		ssist.Prof. Awni M.				
]	Email: a	wny.muhammed@ ⁻	tu.edu.iq			
8 (Course C	Dbjectives				
0. 0						
				••••		
9. 1	Teaching	and Learning Strateg	gies			
Strategy						
	ourse St	ruoturo				
					E .1 .0	
Week	Hours	Required Learning	Unit or subject	Learning	Evaluation	
		Outcomes	name	method	method	
1	4	Basic concept of cipher and decipher	Simple substitution in ciphering	Lectures	Discussion and tests	
2	4	definitions and examples about simple substitution	Standard-standard	Lectures	Discussion and tests	

					1
3	4	definitions and examples about simple substitution	Standard-Reverse	Lectures	Discussion and tests
4	4	definitions and examples about simple substitution	Standard-Random	Lectures	Discussion and tests
5	4	Concept of Transposition systems	Transposition (traditional)	Lectures	Discussion and tests
6	4	Definition of double transposition system	Double- Transposition	Lectures	Discussion and tests
7	4	Definition of play- fair system	Play-Fair (traditional)	Lectures	Discussion and tests
8	4	play-fair system	Play-Fair with key- word	Lectures	Discussion and tests
9	4	Definition of Hill Cipher System	Ciphering	Lectures	Discussion and tests
10	4	Hill- Cipher System	Decipher	Lectures	Discussion and tests
11	4	Basic concept of auto-key	Auto-key	Lectures	Discussion and tests
12	4	Electro-cipher (definition and concepts)	Basic definition and basic concept	Lectures	Discussion and tests
13	4	The functions which used in Electro-cipher	Logic and linear functions	Lectures	Discussion and tests

14	4	Electro-cipher	Linear Feedback Shift Register (LFSR)	Lectures	Discussion and tests
15	4	Electro-cipher	The system of (LFSR)	Lectures	Discussion and tests

11. Course Evaluation						
Distributing the score out of 100 according to the	he tasks assigned to the student such as					
daily preparation, daily oral, monthly, or written exams, reportsetc						
12. Learning and Teaching Resouces						
Required textbooks (curricular books, if any)	مقدمة في التشفير بالطرق الكلاسيكية					
	مقدمة في التشفير بالطرق الكلاسيكية وجدي عصام عبد الرحيم					
Main references(sources)						
	1- Applied Cryptography Bruce Sch. (1996)					
Recomend books and references (scientific						
journals, reports,)						
Electronic references, websites						