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.

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 Na	ame:
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 checked by:	
Department of Quality Assurance and Un	•
Director of the Quality Assurance and Un	iversity Performance Department:
Date:	
Signature:	

Approval of the Dean

1. Program Vision										
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.	website.									
3. Program Object	tives									
General statements	describing wha	t the program o	r institution inter	nds to						
achieve.										
4. Program Accred	ditation									
Does the program h		ccreditation? An	d from which ac	iency?						
Does the program i	ave program a		a nom willon ag	jorioy :						
5. Other external i	nfluences									
Is there a sponsor f	or the program	?								
(December Character										
6 Program Struct		I a		T_ :						
Program Structure	Number of Courses	Credit hours	Percentage	Reviews•						
Institution	Courses									
Requirements										
College										
Requirements										

Department		
Requirements		
Summer Training		
Other		

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

7. Program [Description	າ						
Year/Level	Course C	ode	Course Name	Credit Hours				
				theoretical	practical			
8. Expected	learning	outco	mes of the prog	ram				
Knowledge								
Learning Outcomes	1	Learnir	ng Outcomes Stateme	nt 1				
Skills								
Learning Outcomes 2	2	Learning Outcomes Statement 2						
Learning Outcomes	3	Learning Outcomes Statement 3						
Ethics								
Learning Outcomes	4	Learnir	ng Outcomes Stateme	inti 4				
Learning Outcomes \$	5	Learning Outcomes Statement 5						
9. Teaching an	d Learnin	ng Stra	ategies					
			and methods ad	onted in the imr	olementation of			
•		atogioc			nementation of			
the program in	generai.							
10. Evaluatio	n method	S						

11. Faculty						
Faculty Members						
Academic Rank	Specializ	zation	Special Requirements/Skills (if applicable)		Number of	the teaching staff
	General	Special			Staff	Lecturer
Professional Develop	oment					
Mentoring new faculty n	nembers					
Briefly describes the proce	ss used t	o mentor r	new, visiting, f	ull—time,	and part—ti	me faculty at
the institution and departn	nent level					
Professional developme	nt of fac	ulty memb	oers			
Briefly describe the acade	mic and p	orofessiona	al developme	nt plan ai	nd arrangem	ents for faculty
such as teaching and lear	ning strat	egies, ass	essment of le	earning o	utcomes, pro	fessional
development, etc.						
12. Acceptance Cr	iterion					
(Setting regulations rela	ted 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 abou	ut the prog	gram
State briefly the source	es of inf	ormation	about the p	orogram	۱.	
14. Program	Develop	ment Pla	ın			
-						

		Pr	Program Skills Outline												
					Required program Learning outcomes										
Year/Level	Course Code	Course Name	Basic or	Knov	wledge			Skills	S			Ethics			
		optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4	

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

Course Description Form

			_									
1. (Course N	Name:										
Data mi	ning											
2. (Course (Code:										
3. §	Semeste	er / Year:										
	ourth/ second semester											
4. г)escrint	tion Prenaration Da	ıte:									
4. Description Preparation Date: 1/4/2024												
5 A	Availabl	e Attendance Forms	•									
Full atten		o i ittenaunce i omins	•									
6. N	Number	of Credit Hours (To	tal) / Nur	nber of Unit	ts (Total)							
4 hours												
3 units		- desirate (action)	(('		\						
		administrator's nar	me (mer	ition all, if r	nore than one	name)						
Name: Fmail: ah		aadi abdullan sha@tu.edu.iq										
Erriaii. ari	modalba	ona Otaloaa.iq										
8. 0	Course C	Dbjectives										
	Objectives											
Course	Objectives	•			course aims to intr methods used in							
				describ	e their needs w	vith the aim o						
					nizing and cre s for them. The co							
				-	s data, explore c							
					and understand on inputs to make a							
9. T	eaching	and Learning Strateg	gies	betwee	in inputs to make a	specific decision						
Strategy												
3 /												
10. Co	urse St	ructure										
Week	Hours	Required Learning	Unit or s	ubject	Learning	Evaluation						
		Outcomes	name		method	method						
1	4	Learn about the basic		tion to Data	Explanation and							
		concepts of data mining	l N	lining	practical application	and daily and monthly exams						

2	4	Learn how to deal with data	Getting to Know your data	Explanation and practical	Direct questions and daily and
3	4	Learn about initial data processing	Pre-Processing Techniques	application Explanation and practical application	monthly exams Direct questions and daily and monthly exams
4	4	Learn how to choose features	Pre-Processing Techniques – Feature Selection	Explanation and practical application	Direct questions and daily and monthly exams
5	4	Learn about clustering methods	Clustering techniques	Explanation and practical application	Direct questions and daily and monthly exams
6	4	Identify one of the clustering methods	k-Means Clustering	Explanation and practical application	Direct questions and daily and monthly exams
7	4	First half exam	Mid Exam	Explanation and practical application	Direct questions and daily and monthly exams
8	4	Learn about classification techniques	Classifications techniques	Explanation and practical application	Direct questions and daily and monthly exams
9	4	Identify one of the methods of classification	Decision Trees	Explanation and practical application	Direct questions and daily and monthly exams
10	4	Learn about other techniques in clustering and classification	Learn about other techniques in clustering and classification	Explanation and practical application	Direct questions and daily and monthly exams
11	4	Recursive element mining recognition	Frequent Itemset Mining	Explanation and practical application	Direct questions and daily and monthly exams
12	4	Know the association's rules	Association Rules	Explanation and practical application	Direct questions and daily and monthly exams
13	4	Learn about evaluating what has been learned	Evaluating what's been learned	Explanation and practical application	Direct questions and daily and monthly exams
14	4	Learn about evaluating what has been learned	Evaluating what's been learned2		Direct questions and daily and monthly exams
15	4	Second half exam	Mid Exam2	Explanation and practical application	Direct questions and daily and monthly exams

11. 0	11. Course Evaluation										
	Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reportsetc										
12. L	_earning	and Tea	aching Res	ources							
Require	d textbool	ks (curricu	lar books, if	any)							
Main ref	erences	(sources)									
Recomn	nended	books	and refe	erences							
(scientific journals, reports)											
Electron	ic Refere	nces, Web	sites								