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 staff 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, quarterly), 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.

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

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 extracurricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name:Basrah	
Faculty/Institute: Administration a	and Economics
Scientific Department: Statistics	
Academic or Professional Program Na	ame: differential equations
Final Certificate Name: Statistic	s
Academic System:courses	
Description Preparation Date: 27/2/20	24
File Completion Date: 27/2/2024	
Signature:	Signature:
Head of Department Name:	Scientific Associate Name:
Assistant Professor Dr. Bahaa	Assistant Professor Dr.
Abdel Razzaq	Ammar Youssef Dajar
Date:	Date:
The file is checked by:	
Department of Quality Assurance and Un	niversity Performance
Director of the Quality Assurance and Un	niversity Performance Department:
Date:	
Signature:	

1. Program Vision

The College of Administration and Economics seeks to be one of the leading higher education institutions at the University of Basra in the field of modern education and scientific research through its scientific, research and administrative activities. It also works to provide an integrated path for its students and professors to make them active and creative in serving society in its various fields.

2. Program Mission

Working to prepare and graduate leading scientific and leadership competencies in statistics and to develop the balance of knowledge in the field of scientific research 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. Program Objectives

- 1. Embodying the vision, mission and goals of the University of Basra, and applying the best educational practices with a focus on ensuring and enhancing quality and performance.
- 2. Preparing specialized cadres capable of serving the community and preparing for the preparation of future specializations.
- 3. Spreading the culture of human diversity in society, transferring knowledge and skills, writing academic research, and creative scientific achievement through student– and teaching–focused activities
- 4. The college seeks to conclude scientific and cultural cooperation agreements with corresponding colleges and corresponding departments in different colleges

to achieve best practices in the fields of teaching, learning and translation.

- 5. Focusing on the educational and moral aspects of all its members and spreading the spirit of dedication, tolerance, commitment and work to serve the nation.
- 6. Paying attention to intellectual and cultural construction through openness to the experiences of other countries in the fields of languages, literature and translation.

Focusing on the educational and moral aspect of the student and instilling a spirit of dedication, tolerance and commitment..

4.	Pro	gran	n A	ccr	edit	ation
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nothing?

5. Other external influences

6. Program Structure

nothing

Program Structure Number of Courses Institution Requirements College Requirements

Department	45	3	basic
Requirements			
Summer Training			
Other			
* Tlair : : : - : + :		in Innain an autional	

^{*} This can include notes whether the course is basic or optional.

7. Program De	escription			
Year/Level	Course Code	Course Name		Credit Hours
2023-2024 The		differential	theoretical	practical
second stage		equations		

8. Expected learning	outcomes of the program
Knowledge	
Learning Outcomes 1	Informing students about the importance of special theories in
	differential equations
Skills	
Learning Outcomes 2	Expanding the skill of solving different types of first-order and second-order ordinary differential equations.
Ethics	
Learning Outcomes 4	Developing students' abilities to solve equations And to practice various integrations Expressing one's thoughts and feelings regarding life matters, including scientific subjects

9. Teaching and Learning Strategies

- -Explaining the scientific material by reviewing previous methods of integration and the most important ideas in this regard.
- 2- Students test and review the ideas presented during the lectures

10. Evaluation methods

Weekly and monthly exams and the end of the course exam

Taculty Members Academic Rank Specialization Special Requirements/Skills (if applicable) Number of the teaching staff

General	Special		Staff	Lecturer
mathematics	Applied		✓	
	statistics			

Professional Development

Mentoring new faculty members

Professional development of faculty members

12. Acceptance Criterion

Central admission

13. The most important sources of information about the program

1– Solving ordinary differential equations for students of the College of Administration and Economics.

Written by Wafa Abdel Samad Ashour

14. Program Development Plan

			Pro	gram	Skills	Outl	ine								
							Requ	uired	progr	am Lo	earnin	g outcon	nes		
Year/Level	Course Course Code Name		ame		Knowledge		Skills			Ethics					
			optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4
second stage		Differenti al Equations	basic	1					1					√	

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

Course Description Form

1. Course	e Name:
Differential E	quations
2. Course	e Code:
3. Semes	ter / Year:
semester	
4. Descri	ption Preparation Date:
27/2/2024	
5. Availa	ble Attendance Forms:
attend	
	er of Credit Hours (Total) / Number of Units (Total)
45/3	hours a week
7. Cours	e administrator's name (mention all, if more than one name)
	Wafaa Abdulsamad Ashour
Email:	wafaa.ashoor@uobasrah.edu.iq
8. Course	e Objectives
_	tudents the skill of applyi •
	tegrals to solve ordina
differential e	·····
_	ng students' skills to fo there are solutions to them
_	g linear differential equation
_	eir types of roots
	ng and Learning Strategies
Strategy	1- Educational strategy, collaborative concept planning.
	2- Brainstorming education strategy.
	3- Education Strategy Notes Series

Week	Hours	Required Learning	Unit or subject	Learning	Evaluation
		Outcomes name method		method	method
1			der and degree	Explaini	Weekl
	3	Providing	the differential equation	the	month
		students w	equation	scientifi	daily,
		the skill		material	_
2		forming	The general (2	during t	exams
		equations	solution and the	lecture	and t
2	_	there a	specific solution Types of (3	and	end-of
3		solutions	differential	involvin	
		them.	equations	students	
4		them.	Formation of (4	in t	CAdili
			differential equations		
5	1		Successive integration (5	solution	
5 6	1		lve ordinary equations (6	2-	
0			by separating variables	Involvin	
7			Solve homogeneous (7	students	
0	1		differential equations Solve exact differential (8	in	
8			equations	presenti	
9			egration factor (9	their	
10	1		Solve linear (10	proposa	
_ 0			differential	in	
11	_		equations Bernoulli (11	choosing	
11	_		,	methods	
12			ear equations (12 with fixed	for solvi	
			coefficients	_	
13			The (13		
			complementary function and the	importa	
			special solution	ideas	
14			Change (14	presente	
4 =	1		constants ransaction (15	during t	
15			method 15)	lectures	
			nsaction method		
11.	Course I	Evaluation			
The sco	ore is div	ided into 40 for the n	nonthly exam, 10 for s	student activity a	nd attendance.
		inal exam	<u> </u>		
12.	Learning	and Teaching Reso	ources		
Solving	ordinary	differential equations for	or stude		
of the C	College of	Administration and Eco	onomics		
Differen	tial equa	tions and their applica	ations. Intern	et	
	-	ahmy and others			

(scientific journals, reports)	references		
Electronic References, Websites	3		