

**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

2024

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.

Course Description: 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.

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

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

Program Objectives: They 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 / 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.

Teaching and learning strategies: 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:

Head of Department Name:

Date:

Signature:

Scientific Associate Name:

Date:

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University 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.

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

Is there a sponsor for the program?

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements				
College Requirements				

Department Requirements				
Summer Training				
Other				

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

7. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical

8. Expected learning outcomes of the program	
Knowledge	
Learning Outcomes 1	Learning Outcomes Statement 1
Skills	
Learning Outcomes 2	Learning Outcomes Statement 2
Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
Learning Outcomes 4	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

9. Teaching and Learning Strategies
Teaching and learning strategies and methods adopted in the implementation of the program in general.

10. Evaluation methods
Implemented at all stages of the program in general.

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer

Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

12. Acceptance Criterion

(Setting regulations related to enrollment in the college or institute, whether central admission or others)

13. The most important sources of information about the program

State briefly the sources of information about the program.

14. Program Development Plan

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4

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

Course Description Form

1. Course Name:	
Product Planning–Control and Forecasting	
2. Course Code:	
3. Semester / Year:	
Second Semester / Second Year	
4. Description Preparation Date:	
3/4/2024	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Weekly 4 hours (Total 60 hours) / 2 units	
7. Course administrator's name (mention all, if more than one name)	
Asst. Prof. Hiba K. Hussein, hibakh@kecbu.uobaghdad.edu.iq	
Lec. Dr. Alaa Salahuddin Araibi, alaa.s@kecbu.uobaghdad.edu.iq	
8. Course Objectives	
Course Objectives	<ol style="list-style-type: none"> 1. To provide students with a solid foundation in the principles and concepts of Production Planning, Control, and forecasting. 2. To familiarize students with various Production planning techniques and methods used in industrial engineering. 3. To provide students with the basic concepts related to the interactions between the operations management system parameters and their impact on production and inventory control systems design. 4. To provide students with methodology and models for the generation of company forecasts, materials management cost elements, business operations analysis, productivity, operations strategies for competitive advantage, location strategies, and supply-chain management. 5. To provide students with information on the design and management of operations and production planning/control systems including capacity planning, materials requirements planning, inventory models, scheduling and sequencing, and line balancing for various aspects of the manufacturing and service industry.
9. Teaching and Learning Strategies	
Strategy	The Learning and Teaching Strategies employed in the Production Planning, control, and forecasting module focus on a combination of theoretical knowledge and practical hands-on experience. The module aims to provide students with a comprehensive understanding of planning principles, techniques, and methods used in industrial engineering.

To facilitate effective learning, lectures are conducted to introduce and explain the fundamental concepts and theories related to production planning, control and forecasting. These lectures are supplemented with visual aids, seminars, and real-world examples to enhance understanding and practical application.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3		Introduction to Production Planning and Control Basic concepts of production planning, linear programming, its methods, and graphs	Lecture and tutorial	
2	3		Algebraic linear programming: Graphical	Lecture and tutorial	
3	3		Algebraic linear programming: Simplex	Lecture and tutorial	
4	3		Transportation methods	Lecture and tutorial	
5	3		Northwest corner and lowest costs	Lecture and tutorial	
6	3		Vogal's approximate method	Lecture and tutorial	
7	3		Assignment method	Lecture and tutorial	
8	3		Network diagrams	Lecture and tutorial	
9	3		CPM & PERT method	Lecture and tutorial	
10	3		Forecasting, definition, forecast calculation methods, graphs, moving average, exponential, regression analysis	Lecture and tutorial	
11	3		Material Requirements Planning (MRP)	Lecture and tutorial	
12	3		Graphical, Moving Average, Exponential, Regression Production quantities per meal, optimal quantity size, break-even point, optimal production quantity, lowest cost or greatest profit	Lecture and tutorial	

11. Course Evaluation

Quizzes, mid-term exam, assignments, open dissections, and seminar

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)

Taha, H. A. (2013).
Operations research: an

	introduction. Pearson Education India.
Main references (sources)	
Recommended books and references (scientific journals, reports...)	Chapman, S. N. (2006). The fundamentals of production planning and control. Upper Saddle River, NJ, USA: Pearson/Prentice Hall.
Electronic References, Websites	Maros, I. (2002). Computational techniques of the simplex method (Vol. 61). Springer Science & Business Media.