

**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 Academic Program and Course Description Guide**

**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**

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| 1. **Program Vision**
 |
| Program vision is written here as stated in the university's catalogue and website.  |

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| 1. **Program Mission**
 |
| Program mission is written here as stated in the university's catalogue and website.  |

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| 1. **Program Objectives**
 |
| General statements describing what the program or institution intends to achieve. |

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| 1. **Program Accreditation**
 |
| Does the program have program accreditation? And from which agency?  |

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| 1. **Other external influences**
 |
| Is there a sponsor for the program? |

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| 1. **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.

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| 1. **Program Description**
 |
| **Year/Level** | **Course Code** | **Course Name** | **Credit Hours** |
|  |  |  | **theoretical** | **practical** |
|  |  |  |  |  |

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| 1. **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 |

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| 1. **Teaching and Learning Strategies**
 |
| Teaching and learning strategies and methods adopted in the implementation of the program in general.  |

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| 1. **Evaluation methods**
 |
| Implemented at all stages of the program in general.  |

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| 1. **Faculty**
 |
| **Faculty Members** |
| **Academic Rank**  | **Specialization**  | **Special Requirements/Skills (if applicable)**  | **Number of the teaching staff**  |
| **General**  | **Special**  |  | **Staff**  | **Lecturer**  |
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| **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. |

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| 1. **Acceptance Criterion**
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| **(Setting regulations related to enrollment in the college or institute, whether central admission or others)** |

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| 1. **The most important sources of information about the program**
 |
| State briefly the sources of information about the program.  |

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| 1. Program Development Plan
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| **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** |
|  |  |  | **Operations Research** |  |  |  |  |  |  |  |  |  |  |  |  |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

**Course Description Form**

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| 1. Course Name:
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| 1. Course Code:
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| 1. Semester / Year:
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| 1. Description Preparation Date:
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|  |
| 1. Available Attendance Forms:
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|  |
| 1. Number of Credit Hours (Total) / Number of Units (Total)
 |
|  |
| 1. Course administrator's name (mention all, if more than one name)
 |
| Name: A lecturer. Khaled Walid AttaEmail: **khalidwaleed@coadec.uobaghdad.edu.iq** |
| 1. Course Objectives
 |
| **Course Objectives** | introducing students to the scientific foundations and beginnings  Applications of operations research in the practical aspect • Using computer applications to purchase results And then analyze the results Helping build scientific decisions based on Results obtained |
| 1. Teaching and Learning Strategies
 |
| **Strategy** | Presenting the basic theories and concepts related to operations research Linear programming, transportation problems, customization, and project management 2. Drawing results and then analyzing them 3. Bringing real practical applications, discussing them, and finding out how to solve the problem 4. Organizing group discussions and seminars for students to express scientific opinions 5. Organizing continuous examinations to determine the level of students and feedback 6. Organizing simple statistical questionnaires to be presented to students after each lecture to find out their opinions It is used to develop the teaching method |
| 1. Course Structure
 |
| **Week**  | **Hours**  | **Required Learning Outcomes**  | **Unit or subject name**  | **Learning method**  | **Evaluation method**  |
| 1234567891011121314 | 33333333333333 | Understand the basic principles of operations research Understanding practical applications in operations research Learn the principles of linear programming Building a mathematical model in linear programming Practical examples of model building Promote practical examples of model building Solving mathematical models using the simplex method Solve mathematical models using the big m method and the two-stage method Sensitivity analysis in linear programming Definition of the corresponding model Introducing transportation models and how to transport at the lowest cost Introducing thto assignment model and how to perform optimal allocation Introducing the concept of project management Introducing project management methods, namely the CPM method and the PERT method, as well as the trade-off between cost and time | Introduction to operations researchOperations research applicationsIntroduction to linear programmingBuilding modelsBuilding modelsBuilding modelsSolve modelsSolve modelsSensitivity analysisduial modelTransportation modelCustomization formsproject managementproject management | Lectures using the smart boardLectures using the smart boardLectures using the smart boardLectures using the smart boardLectures using the smart boardLectures using the smart boardLectures using the smart boardLectures using the smart boardLectures using the smart boardLectures using the smart boardLectures using the smart boardLectures using the smart boardLectures using the smart boardLectures using the smart board | Tests + posts + daily assignmentsTests + posts + daily assignmentsTests + posts + daily assignmentsTests + posts + daily assignmentsTests + posts + daily assignmentsTests + posts + daily assignmentsTests + posts + daily assignmentsTests + posts + daily assignmentsTests + posts + daily assignmentsTests + posts + daily assignmentsTests + posts + daily assignmentsTests + posts + daily assignmentsTests + posts + daily assignmentsTests + posts + daily assignments |
| 1. Course Evaluation
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| Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc 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.1. End-of-semester exam, 60 marks2. An annual pursuit of 40 degrees, divided as follows:A. Participations and assignments, 10 marksB. Practical exam, 10 marksC.Theoretical exam 20 marks |
| 1. Learning and Teaching Resources
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| Required textbooks (curricular books, if any) | OPERATION RESEARCH ANINTRODUCTION EIGHT EDITIONHAMDY A.TAHA |
| Main references (sources) |  |
| Recommended books and references (scientific journals, reports...) |  |
| Electronic References, Websites |  |