**Ministry of Higher Education and Scientific Research**

**Supervision and Scientific Evaluation Body**

**Quality Assurance and Academic Accreditation Office**

**Course Description**

# Subject: Quantitative System Business “QSB”

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| This course description provides a brief survey of the most important characteristics, expected learning output, showing whether students have made full use f the learning opportunities. These characteristics have to be matched with the description of the program. |

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| 1. Educational Institution | Shatt Al-Arab University - College of Administration and Economics |
| 2. Department / Center | Business Administration |
| 3. Course Title /Code | QSB |
| 4. Lecturer Name | Mohammed Abood Tahir |
| 5. Type of Teaching | Attendance |
| 6. Academic Year /Term | 3rd  BA315 |
| 7. Total No. of Teaching Hours | 45 |
| 8. Date f Preparing this Course Description | 1/9/2024 |

9. **Course Objectives**

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| a. Providing students with the most important principles and basics of QSB |
| b. Teaching students how to apply QSB |
| c. Providing graduates with the necessary knowledge on QSB |
| d. Improving the administrative skills in using of QSB |
| e. |

10. **Course Output, Methodology and Evaluation**

(A) **Cognitive Objectives**

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| a. Enabling students to acquire knowledge QSB |
| b. Helping students to acquire knowledge QSB. |
| C. |
| d. |
| e. |
| f. |

(B) **Skill Objectives Related to the Program**:

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| a. Scientific Skills |
| b. Leadership Skills |
| c. Skills Related to Administrative Work Challenges |

**Methods of Teaching and Learning**

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| a. Using already- prepared lectures. |
| b. Using up-to-date data shows. |
| c. Homework |
| d. Adopting group discussions. |

**Methods of Evaluation**

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| a. Oral tests |
| b. Monthly tests |
| c. Daily quizzes |
| d. Students' Regular Attendance |

(C) **Sentimental and Value Objectives**

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| a. Realizing ethical objectives. |
| b. Commitment to university traditions. |
| c. Compliance with the University Instructions and the Ministry Regulations. |
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**Methods of Teaching and Learning**

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| a. Lectures on university instructions. |
| b. Educational guidance lectures. |
| c. Continuous directing. |
| d. Visiting State and private institutions. |
| e. Showing practical cases. |

**Methods of Evaluation**

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| a. Daily quizzes. |
| b. Classroom discussions and commitment to ethics and sublime values. |
| c. Special marks for class activities. |
| d. Monthly and quarterly evaluation. |

D) **General and Qualitative Skills (other skills related to the ability of employment and personal development)**

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| a. Enabling students to acquire the skill and art of operational research |
| b. Enabling students to apply creative thinking in operational research |
| C. Enabling students to operational research |
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11. **Course Structure**

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| **Week** | **No of Hours** | **Required Learning Output** | **Title of Subject** | **Teaching Method** | **Evaluation** |
| 1 | 3 | understanding the material | **How to run QSB** | Practical |  |
| 2 | 3 | understanding the material | **اcommands and tools of the QSB** | === |  |
| 3 | 3 | understanding the material | **Graphical method for solving linear programming** | === |  |
| 4 | 3 | understanding the material | **Simplex method** | === |  |
| 5 | 3 | understanding the material | **Solving Integer Programming problems** | === |  |
| 6 | 3 | understanding the material | **Solving Goal Programming Problems** | === |  |
| 7 | 3 | understanding the material | **Transportation Models** | === |  |
| 8 | 3 | understanding the material | **Assignments** | === |  |
| 9 | 3 | understanding the material | **Solving Shortage Path problems** | === |  |
| 10 | 3 | understanding the material | **Solving Shortage Path problems** | === |  |
| 11 | 3 | understanding the material | **Solving Salesman problems** | === |  |
| 12 | 3 | understanding the material | **Solving Queuing Problems** | === |  |
| 13 | 3 | understanding the material | **Solving Queuing problems** | === |  |
| 14 | 3 | understanding the material | **Solving Network problems** | === |  |
| 15 | 3 | understanding the material | **General review** | === |  |

12.**Infrastructure**

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| a. Textbooks | Operational by H Taha |
| b. References |  |
| c. Recommended books and periodicals (journals, reports, etc.) |  |
| d. Electronic references, internet websites, etc |  |

13. **The Plan of Improving the Course**

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| a. Studying labor market needs. |
| b. Be informed of the experiences of other countries in the field of ----------------. |
| c. Be informed of research work published in national and international journals in the field of ----------------. |