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| **Ministry of Higher Education and Scientific Research** |  |  |
| **Supervision and Scientific Evaluation Body** |  |  |
| **Department of Quality Assurance and Academic Accreditation**  |  |  |

**Course Description Form /**

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| **Description Course** |  |

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available 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**  | A logo of a university college  Description automatically generated |
| 2. Department / Center | **Business Administration** |
| 3. Course Title /Code | Mathematics for Business BA15 |
| 4. Lecturer Name |  **Prof Dr. Muhammed Abood Tahir**  |
| 5. Type of Teaching | **Attendance Class** |
| 6. Academic Year /Term | **2023/2024** |
| 7. Total No. of Teaching Hours | **45 hours**  |
| 8. Date of Preparing this Course Description | **8/9/2023** |

**9. Course Objectives**

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| 1- This course provides an identification of some basic principles in business mathematics |
| 2- Introduce them to the areas of application of these principles and algebraic operations on groups |
| 3- Introducing them to functions, objectives, linear equations and ways to solve them |
| 4- Introducing them in the field of calculus  |
| 5- This course provides an identification of some basic principles in business mathematics |
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**10. Course Output, Methodology and Evaluation**

 **(A) Cognitive Objectives**

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| A1- Gain sports knowledge and engage with society |
| A2- Understand how to use mathematics in terms of symbols, shapes and drawings  |
| A3- Understand the nature of mathematics and its role in explaining some things in nature |
| A4- Understanding and perceiving mathematical structure in algebraic and geometric operations |
| A5- Recognize the process of integration and linkage with other subjects. |

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

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| B1- Gain the ability to classify, collect, represent and draw data |
| B2 – Acquire the ability to deal with derivation and integration |
| B3 – Ability to present and discuss mathematical ideas |
| B4- Acquire the mathematical skill of proof |
| B5- Ability to understand algebraic and geometric processes  |

**Methods of Teaching and Learning**

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| 1- Lecturing  |
|  2- Discussion in the room |

**Methods of Evaluation**

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| 1-Daily participation of students through the method of explaining the material. |
| 2-Daily tests. |

 **(C) Sentimental and Value Objectives**

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| C1- Acquiring positive values such as (good use of time - respect for the other opinion - accuracy in organization) |
| C2- Developing self-esteem for sports efficiency |
| C3- Developing mathematics as a means and an end in society |
| C4- Enjoy mathematics and employ it in other aspects |

**Methods of Teaching and Learning**

|  |
| --- |
| 1- Lecturing  |
|  2- Discussion in the room |

**Methods of Evaluation**

|  |
| --- |
| 1-Daily participation of students through the method of explaining the material. |
| 2-Daily tests. |

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

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| D1- Acquire the ability to deal with derivation and integration |
| D2- Ability to present and discuss mathematical ideas |
| D3- Acquire the mathematical skill of proof  |
| D4- Ability to understand algebraic and geometric processes |

**11. Course Structure**

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| **Week** | **No of Hours** | **Required Learning Output** | **Title of Subject** | **Teaching Method** | **Evaluation** |
| **1** | **3** | Student understanding of the subject | Groups & Subset | practical | Weekly Exam |
| **2** | **3** | Student understanding of the subject | Algebraic operations on groups | practical | Weekly Exam |
| **3** | **3** | Student understanding of the subject | Linear equation with one unknown | practical | Weekly Exam |
| **4** | **3** | Student understanding of the subject | Solving a System of Linear Equations | practical | Weekly Exam |
| **5** | **3** | Student understanding of the subject | Quadratic equation | practical | Weekly Exam |
| **6** | **3** | Student understanding of the subject | Equation of a Line | practical | Weekly Exam |
| **7** | **3** | Student understanding of the subject | Goals | practical | Weekly Exam |
| **8** | **3** | Student understanding of the subject | Functions | practical | Weekly Exam |
| **9** | **3** | Student understanding of the subject | Derivation | practical | Weekly Exam |
| **10** | **3** | Student understanding of the subject | Implicit derivation | practical | Weekly Exam |
| **11** | **3** | Student understanding of the subject | differentiation using the chain rule, | practical | Weekly Exam |
| **12** | **3** | Student understanding of the subject | Indefinite Integration | practical | Weekly Exam |
| **13** | **3** | Student understanding of the subject | Definite Integral | practical | Weekly Exam |
| **14** | **3** | Student understanding of the subject | Matrices | practical | Weekly Exam |
| **15** | **3** |  | Final exam  |  |  |

**12.Infrastructure**

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| **a. Textbooks** | Principles of Mathematics / Written by: Dr. Muhammad Al-Qadi and Mr. Ahmed Abu Bakr |
| **b. References** |  |
| **c. Recommended books and periodicals (journals, reports, etc.)** |  |
| **d. Electronic references, internet websites, etc** | Virtual library, Internet and international scientific research sites |

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

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| By participating in panel discussions, seminars and scientific conferences to keep pace with the process of progress |