

Ministry of Higher Education and Scientific Research

Supervision and Scientific Evaluation Body

Quality Assurance and Academic Accreditation Office

Shatt Al Arab University

Course Description

Subject: General Mathematics

The course contributes directly to the development of students in the field of presenting scientific ideas in the field of general mathematics and scientific methods as an effective tool in scientific research to obtain results of a distinctive quantitative nature.

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| 1. Educational Institution | Shatt Al-Arab University |
| 2. Department / Center | Accounting |
| 3. Course Title /Code | |
| 4. Lecturer Name | LIQA NABIL SABIH |
| 5. Type of Teaching | Attendance |
| 6. Academic Year /Term | Seconed |
| 7. Total No. of Teaching Hours | 90 |
| 8. Date f Preparing this Course Description | 1-9-2024 |

9. Course Objectives

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| a.Introducing the student to the general and specific objectives of general mathematics |
| b. Introducing the student to the methods and approaches of most mathematical problems |
| c. Introducing the student to the nature of mathematical treatments of scientific problems |
| d. |

10. Course Output, Methodology and Evaluation

(A) Cognitive Objectives

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| A- Knowledge and understanding |
| a. The learner should know the terms used in general mathematics |
| b. The learner should understand what is meant by general mathematics |
| c. The learner should know and understand the methods of general mathematics |
| d. The learner should know and understand the steps for solving mathematical problems |
| 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. |
| d. Promoting students' personal abilities in educational scopes and how to behave well with others. |

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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| - Skills related to how to apply strategies in practical reality. |
| a. Skills related to using scientific methods in solving problems. |
| b. Skills related to transferring scientific knowledge to the surrounding community. |
| c. Skills for learning how to discuss, dialogue and persuade. |
| d. Skills for training and personal development later. |

11. Course Structure

| Week | No of Hours | Required Learning Output | Title of Subject | Teaching Method | Evaluation |
|------|-------------|----------------------------|---|--|--|
| 1 | 2 | understanding the material | Definition of function and the importance of functional representation in financial sciences, domain and corresponding domain | - lectures - case study -discussions | - oral tests -questions |
| 2 | 2 | understanding the material | Linear and nonlinear equations, exponential transformation, and logarithmic and return growth | - lectures - case study -discussions | - oral tests -questions |
| 3 | 2 | understanding the material | Transcendental functions, | - lectures - case study -discussions | - oral tests -questions |
| 4 | 2 | understanding the material | Chapter Two The Purpose Definition of the purpose and the purpose formulas for different functions for the sum and subtraction of a set of functions and for the product and division of two functions | - lectures - case study -discussions | - lectures - case study -discussions |
| 5 | 2 | understanding the material | L'Hopital's rule, undefined values from the relation of ends to objective points | - lectures - case study -discussions | - lectures - case study -discussions |
| 6 | 2 | understanding the material | General examples and practical examples in the financial and accounting field | - lectures - case study -discussions | - lectures - case study -discussions |
| 7 | 2 | understanding the material | First month exam | - lectures - case study -discussions | - lectures - case study -discussions |
| 8 | 2 | | Chapter Three: | | |

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|----|---|----------------------------|--|--|--|
| | | | Differentiation Definition of differentiation using the end ratio of differences, the importance of differentiation in representing the slope of financial and economic curves of production functions and calculating interest | | |
| 9 | 2 | understanding the material | General examples and practical examples in the financial market | - lectures - case study -discussions | - lectures - case study -discussions |
| 10 | 2 | understanding the material | Chapter Four: The Derivative Checking the existence of the derivative of a given function | - lectures - case study -discussions | - lectures - case study -discussions |
| 11 | 2 | understanding the material | Relationship of derivative to critical points, inflection points, maximum profit points, minimum cost points and losses in bonds | - lectures - case study -discussions | - lectures - case study -discussions |
| 12 | 2 | understanding the material | Financial portfolios and their application in the financial field | - lectures - case study -discussions | - lectures - case study -discussions |
| 13 | 2 | understanding the material | Examples and practical exercises for the relationships of derivatives to other points | - lectures - case study -discussions | - lectures - case study -discussions |
| 14 | 2 | understanding the material | General examples | - lectures - case study -discussions | - lectures - case study -discussions |
| 15 | 2 | | final semester exam | | |


12.Infrastructure

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| a. Textbooks | General Mathematics - Dr. Tariq Shaaban Al-Hadith |
| b. References | General Mathematics - Dr. Rahim Younis Kro |
| c. Recommended books and periodicals (journals, reports, etc.) | Mathematicians and academics |
| d. Electronic references, internet websites, etc | springer |

13. The Plan of Improving the Course

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| a. Studying labor market needs. |
| b. Reviewing countries' experiences in the field of mathematics |
| c. Reviewing what is written in national and international scientific journals in the field of mathematics |


م.م ظافر حاتم حسين


أ.م.د عبدالكريم عبدالقاي عودة
رئيس القسم

