*Republic of Iraq*

*Ministry of Higher Education & Scientific Research Supervision and Scientific Evaluation Directorate Quality Assurance and Academic Accreditation International Accreditation Dept.*

# *Academic Program Specification Form For The Academic*

*Universitiy:* **Thi - Qar University**

*College* **College of Administration and Economics**

*Number Of Departments In The College* **:Economics**

*: Date Of Form Completion :*

الدكتور
حسين علي عبد الله

*Dean 's Name Date :*

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*Signature*

*Dean 's Assistant For Scientific Affairs*

*Date : / /*

*Signature*

*The College Quality Assurance And University Performance Manager*

*Date : / / Signature*

Hayder Abed

*Quality Assurance And University Performance Manager Date : / /*

*Signature*

## course description form

## Course description

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. It must be linked to the description of the program.

| | |
|---|---|
| 1- Educational Institution | Dhi Qar University /College of Administration and Economics<br>١. المؤسسة التعليمية |
| 2- Scientific Department / Center | Department of Economics |
| 3- Course name/code | Mathematics for Economists |
| 4- Forms of attendance available | my presence |
| 5- Semester/year | second course |
| 6- Number of hours of study (total) | 30 |
| 7- The date this description was prepared | 2022 |
| 2. Course objectives | |
| Develop students' abilities and develop their skills in the mathematical operations of economists | |
| Introduce students to the importance of mathematical operations and their results in the field of economics such as costs, profits, revenue and other | |

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| mathematical economic terms |
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| 10-Course outcomes and methods of teaching, learning and assessment |
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| A- Cognitive goals<br>A1- Enabling the student to learn about economic mathematical operations<br>A2- Enabling students to use their abilities in performing mathematical operations and extracting results related to the economy. For example, by extracting profits, the student can know the extent of the success or failure of the project. |
| B - Skills objectives of the course.<br>B1 - Training students on how to employ their abilities in mathematics-related processes for economists<br>B2 - Students discuss economic issues related to the study of mathematics for economists |
| Teaching and learning methods |
| 1- Practical applications<br>2- Panel discussions<br>3- Classroom activities and training<br>4- Students' participation in the applied mathematical operations of the subject |
| Evaluation methods |
| 1- Interactive training<br>2- Participation in the classroom<br>3- Presenting activities and assignments |

C- Emotional and value goals

C1- To develop the student's abilities to work to perform duties and adhere to the lecture times and the extent of his focus

C2- Acquisition of able students and those who have quick wit in the subjects related to the subject

Teaching and learning methods

1- Allocating a percentage of the grade for the students participating in the lecture and the assignments related to the subject

2- Managing the lecture in a way that feels the importance of time.

Evaluation methods

1- Active participation in the classroom is evidence of the student's commitment and responsibility.

2- Commitment to the time specified in the lecture times and submitting assignments.

3- The quarterly and final exams express commitment and cognitive and skill achievement

D - Transferred general and rehabilitative skills (other skills related to employability and personal development.(

D1- Developing students' ability in the field of mathematics for economists

D2 - Develop knowledge of the economy in general

D3 - Enable the student to solve mathematical problems, reach results, and then analyze those results from an economic point of view

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| Evaluation method | education method | Unit name and/or topic | Required learning outcomes | hours | the week |
|---|---|---|---|---|---|
| Questions / Post | fresh / practical | The concept of integral and indefinite integral, laws of indefinite integral | | 2 | the first |
| Questions / Post | my work | Economic applications of indefinite integral | | 2 | The second |
| Questions / Post | my work | Integration by substitution | | 2 | the third |
| Questions / Post | my work | definite integral | | 2 | Quarter |
| Questions / Post | fresh / practical | Economic applications of definite integral (consumer surplus) | | 2 | Fifth |
| Questions / Post | fresh / practical | Consumer surplus, producer surplus, and the sum of society's surplus | | 2 | VI |
| Questions / Post | my work | private review lecture | | 2 | seventh |
| | | First semester exam | | 2 | eight |
| Questions / Post | my work | first degree difference equations<br>Methods for solving first degree difference equations | | 2 | ninth |
| Questions / Post | my work | second degree difference equations<br>Methods for solving second degree difference equations | | 2 | The tenth |

| | | | | | |
|---|---|---|---|---|---|
| Questions / Post | my work | optimization function (Cobb–Douglas) | | 2 | eleventh |
| Questions / Post | my work | Exercises for optimization indefinite functions with limitations | | 2 | Twelveth |
| Questions / Post | my work | Review of previous lectures | | 2 | Thirteenth |
| | | The second semester exam | | 2 | Fourteen |
| | | | | 2 | Fifteenth |

| 11.Infrastructure | |
|---|---|
| 1- Required course books | Economic Mathematics Foundations and Applications / Kamel Allawi / Atef Lafi<br>Mathematical Economics / Adnan Karim Najmuddin<br>Some websites |
| 2-(main references (sources | |
| Recommended books and references (scientific journals, reports، ….) | |
| …B electronic references, websites | |

| 12- Course Development Plan |
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