**Course Description Form**

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| 1. Course Name: | | | | | | | | |
| Principles of Mathematical | | | | | | | | |
| 1. Course Code: | | | | | | | | |
| 1st course | | | | | | | | |
| 1. Semester / Year: semesters | | | | | | | | |
| Semester 14/2/2024 | | | | | | | | |
| 1. Description Preparation Date: | | | | | | | | |
| 2023/2024 | | | | | | | | |
| 1. Available Attendance Forms: | | | | | | | | |
| Attendance only | | | | | | | | |
| 1. Number of Credit Hours (Total) / Number of Units (Total) | | | | | | | | |
| 30 hours in semester / 2 hours weekly | | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | | |
| Jaafar Ghazi Abdulrazzaq email: jaafar.ghazi@uobasrah.edu.iq | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| **Course Objectives** | | | | 1- Enabling the student to become familiar with mathematics in general and its applications in various experiments  2- Enabling the student to know and understand mathematics and perform the steps correctly and correctly in solving mathematical problems  3- Providing the student with the skills to deal with different sections of mathematics and various uses of mathematical applications  4- Enabling the student to solve complex problems and various applications in various fields | | | | |
| 1. Teaching and Learning Strategies | | | | | | | | |
| **Strategy** | | By providing the student with the basics and additional topics related to educational outcomes, assigning students to joint research, collecting information from various sources, exchanging scientific material and its sources with each other, and forming open discussion circles on material. | | | | | | |
| 1. Course Structure | | | | | | | | |
| **Week** | **Hours** | | **Required Learning Outcomes** | | | **Unit or subject name** | **Learning method** | **Evaluation method** |
| 1 | 2 | | Mathematics' concept | | |  |  |  |
| 2 | 2 | | Exponents | | |  |  |  |
| 3 | 2 | | Polynomial | | |  |  |  |
| 4 | 2 | | Fraction | | |  |  |  |
| 5 | 2 | | Radical | | |  |  |  |
| 6 | 2 | | Order of Mathematical Operations | | |  |  |  |
| 7 | 2 | | Factoring | | |  |  |  |
| 8 | 2 | | Use of Pocket Calculator | | |  |  |  |
| 9 | 2 | | Mathematics for economic basic | | |  |  |  |
| 10 | 2 | | Function, variable , constant , equation | | |  |  |  |
| 11 | 2 | | Graphs, slope ,and intercepts | | |  |  |  |
| 12 | 2 | | First degree solving | | |  |  |  |
| 13 | 2 | | Second degree solving | | |  |  |  |
| 14 | 2 | | Elimination method | | |  |  |  |
| 15 | 2 | | Substitution method | | |  |  |  |
| 1. Course Evaluation | | | | | | | | |
| Exams: 40 Degree. , Participation:5 Degree , Attendance: 5 Degree ,  Total : 50 degree | | | | | | | | |
| 1. Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | |  | | | |
| Main references (sources) | | | | | 1. Schaum\_introduction\_to\_mathematical \_econ.ph.d .EdwardT. Dowling .. third edition 2. . Fundamental Methods of Mathematical Economics. Alpha Chung-i Chiang .phd . second edition | | | |
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| Electronic References, Websites | | | | | https://math.libretexts.org | | | |