

TOROS ÜNİVERSİTESİ

Vocational School
Child Development

Course Information

| MATHEMATICS | | | | | |
|-------------|----------|-------------|----------|-----------------|-------------|
| Code | Semester | Theoretical | Practice | National Credit | ECTS Credit |
| | | Hour / Week | | | |
| MAT111 | Fall | 2 | 0 | 2 | 2 |

| | |
|--------------------------------------|---|
| Prerequisites and co-requisites | None |
| Language of instruction | Turkish |
| Type | Required |
| Level of Course | Associate |
| Lecturer | Lec. Yusuf GÜL |
| Mode of Delivery | Face to Face |
| Suggested Subject | |
| Professional practise (internship) | None |
| Objectives of the Course | Understanding basic mathematical concepts and increasing functional thinking |
| Contents of the Course | sets of the numbers,first degree equations and their solutions,sets,relations and functions |

Learning Outcomes of Course

| # | Learning Outcomes |
|---|--|
| 1 | Know basic mathematical concepts and number sets |
| 2 | Be able to perform operations on number sets |
| 3 | Use problem solving and functional thinking skills in daily life |
| 4 | demonstrate the ability to use them in other subjects with numerical contents. |
| 5 | |
| 6 | |

Course Syllabus

| # | Subjects | Teaching Methods and Technics |
|----|--|----------------------------------|
| 1 | learning number system and numerals using on base ten | exposition,solution of exercises |
| 2 | learning number systems (natural numbers,integers,rational numbers and real numbers) | exposition,solution of exercises |
| 3 | learning number systems (rational numbers) | exposition,solution of exercises |
| 4 | learning number systems (real numbers) | exposition,solution of exercises |
| 5 | first degree equations and their solutions | exposition,solution of exercises |
| 6 | identicalness and dividing in multiplier | exposition,solution of exercises |
| 7 | First midterm exam | classic written exam |
| 8 | inequalities and their solutions | exposition,solution of exercises |
| 9 | absolute value equations and inequalities and their solutions | exposition,solution of exercises |
| 10 | problems and their solutions(speed,age,.....) | exposition,solution of exercises |
| 11 | second midterm | classic written exam |
| 12 | sets | exposition,solution of exercises |

| | | |
|----|-----------------------|----------------------------------|
| 13 | cros product | exposition,solution of exercises |
| 14 | relation and function | exposition,solution of exercises |
| 15 | | |
| 16 | Final Exam | classic written exam |

Course Syllabus

| # | Material / Resources | Information About Resources | Reference / Recommended Resources |
|---|----------------------|-----------------------------|-----------------------------------|
| 1 | Matematik 1 kitabı | Yusuf GÜL | Toros Üniversitesi yayınları |
| 2 | Genel matematik-1 | Mustafa BALCI | Sürat yayınları |

Method of Assessment

| # | Weight | Work Type | Work Title |
|---|--------|---------------|---------------|
| 1 | 20% | Mid-Term Exam | Mid-Term Exam |
| 2 | 20% | Mid-Term Exam | Mid-Term Exam |
| 3 | 60% | Final Exam | Final Exam |

Relationship between Learning Outcomes of Course and Program Outcomes

| # | Learning Outcomes | Program Outcomes | Method of Assessment |
|---|--|------------------|----------------------|
| 1 | Know basic mathematical concepts and number sets | 1,2 | 1,2 |
| 2 | Be able to perform operations on number sets | 1,2,3,4,5,6 | 1,2 |
| 3 | Use problem solving and functional thinking skills in daiiy lif | 1,2,3,4,5,6 | 1,2 |
| 4 | demonstrate the ability to use them in other subjects with numerical contents. | 1,2,3,4,5,6,7,8 | 1,2,3 |
| 5 | | 1,2,3,4,5,6,7 | 1,3 |
| 6 | | 2,3,4,5,6,7,8 | 1,2,3 |

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

| # | Type of Work | Quantity | Time (Hour) | Work Load |
|----|---|----------|-------------|-----------|
| 1 | Course Duration | 14 | 2 | 28 |
| 2 | Course Duration Except Class (Preliminary Study, Enhancement) | 14 | 2 | 28 |
| 3 | Presentation and Seminar Preparation | 0 | 0 | 0 |
| 4 | Web Research, Library and Archival Work | 0 | 0 | 0 |
| 5 | Document/Information Listing | 0 | 0 | 0 |
| 6 | Workshop | 0 | 0 | 0 |
| 7 | Preparation for Midterm Exam | 0 | 0 | 0 |
| 8 | Midterm Exam | 2 | 1 | 2 |
| 9 | Quiz | 0 | 0 | 0 |
| 10 | Homework | 0 | 0 | 0 |
| 11 | Midterm Project | 0 | 0 | 0 |
| 12 | Midterm Exercise | 0 | 0 | 0 |
| 13 | Final Project | 0 | 0 | 0 |
| 14 | Final Exercise | 0 | 0 | 0 |
| 15 | Preparation for Final Exam | 1 | 1 | 1 |

| | | | | |
|----|------------|---|---|-----------|
| 16 | Final Exam | 1 | 1 | 1 |
| | | | | 60 |