

Content

| Course Code | Course Name | Semester | Theory | Practice | Lab | Credit | ECTS |
|--------------------|--------------------|-----------------|---------------|-----------------|------------|---------------|-------------|
| SOC161 | Mathematics I | 1 | 2 | 0 | 0 | 2 | 4 |

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| Prerequisites | |
| Admission Requirements | |

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| Language of Instruction | |
| Course Type | |
| Course Level | Bachelor Degree |
| Objective | |
| Content | |
| References | |

Theory Topics

| Week | Weekly Contents |
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| 1 | Sets, operations with sets. |
| 2 | Sets, operations with sets. |
| 3 | Relations and functions. |
| 4 | Functions. |
| 5 | Calculations with real numbers, absolute value, equations and inequalities containing absolute value. |
| 6 | Integer and real power of real numbers. |
| 7 | Polynomials and factorization of polynomials . |
| 8 | Factorization of polynomials. |
| 9 | Quadratic equations. |
| 10 | Mid-term Exam. |
| 11 | Quadratic equations, inequalities and polynomials, sign of the quadratic polynomials. |
| 12 | Quadratic equations, inequalities and polynomials, sign of the quadratic polynomials. |
| 13 | Linear and quadratic functions and parabola. |
| 14 | Exponential and logarithm functions. |