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| **SEMESTER** | Spring |



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| **COURSE CODE** | 171416123 | **COURSE NAME** | Mathematics Teaching-2 |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Labratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 3 | 3 | | 0 | 0 | | | 3 | 4 | COMPULSORY (x ) ELECTIVE ( ) | | | Turkish |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Professional Knowledge** | | **Content Knowledge** | | | | **General Knowledge** | | | | | **Elective Course** | |
|  | | X | | | |  | | | | | Professional Know.( ) Content Know.() Gen. Know ( ) | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| Mid-Term | | | | | 1 | | 40 |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | 60 |
| **PREREQUIEITE(S)** | | | | |  | | | | | | | |
| **COURSE DESCRIPTION** | | | | | Instruction of fractional numbers; instruction of decimal fractions (operations with decimal fractions); development of geometric thinking in children; instruction of geometry, instruction of measuring and dimensions (length, perimeter, area, volume, time measurements, weighing); instruction of data (tables and graphs); measurement and assessment in mathematics education(multiple measurement and assessment methods and techniques). | | | | | | | |
| **COURSE OBJECTIVES** | | | | | The objective of this course is to teach objectives and principles of mathematics education, basic strategies and methods used in mathematics education to teacher candidate. | | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | |  | | | | | | | |
| **COURSE OUTCOMES** | | | | | 1. To have knowledge about instruction of fractional numbers  2. To have knowledge about instruction of decimal fractions  3. To have knowledge about  development of geometric thinking in children  4. To have knowledge about instruction of 2 and 3 dimensional geometry topics.  5. To have knowledge about instruction of measuring and dimensions.  6. To have knowledge about instruction of data  7.To have knowledge about  measurement and assessment in  mathematics education | | | | | | | |
| **TEXTBOOK** | | | | | *BAYKUL, Y. (2016). İlköğretimde Matematik Öğretimi (1-4. Sınıflar), 13. Baskı, Ankara: Pegem Yayıncılık* | | | | | | | |
| **OTHER REFERENCES** | | | | | ALTUN, M. (2013). Eğitim Fakülteleri ve Sınıf Öğretmenleri İçin Matematik Öğretimi, Ankara: Aktüel Yayıncılık  BAKİ, A. (2008). Kuramdan Uygulamaya Matematik Eğitimi, Ankara: Harf Eğitim Yayıncılık  OLKUN, S., TOLUK UÇAR, Z. (2007). İlköğretimde Etkinlik Temelli Matematik Öğretimi, Ankara: Maya Akademi  PESEN, C. (2006). Yapılandırmacı Öğrenme Yaklaşımına Göre Matematik Öğretimi, Ankara: Pegem A Yayıncılık | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | |  | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Fractions and properties of fractions |
| 2 | Instruction of operations with fractional numbers |
| 3 | Decimal fractions and properties of decimal fractions |
| 4 | Instruction of operations with decimal numbers |
| 5 | Development of geometric thinking in children |
| 6 | Instruction of geometry |
| 7-8 | MID-TERM EXAM |
| 9 | Teaching of measuring of length and area |
| 10 | Teaching of measuring liquid and volume |
| 11 | Teaching of measuring time and weight |
| 12 | Teaching of data |
| 13 | Measurement in mathematics education |
| 14 | Assessment and grading in mathematics education |
| 15-16 | FINAL EXAM |

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| **ID** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| **1** | Be able to use Turkish language suitable for rules, effectively and properly, and to communicate effectively with students. |  | **X** |  |
| **2** | Becomes a teacher who believes in principles and reforms of Atatürk, believes in democracy and the rule of law, aware of Turkish national, spiritual, moral and cultural values, and shows awareness of them in teaching profession. |  |  | **X** |
| **3** | Have pedagogical knowledge about his/her profession area, knowing contemporary teaching methods and techniques, methods of measurement and evaluation and applies them. | **X** |  |  |
| **4** | Becomes sensitive toward society, environment and human being; raising students who will be useful to society, have confidence for future, investigative, have inquiry ability and supports lifelong learning. |  | **X** |  |
| **5** | Takes responsibility individual and group works and carry out tasks effectively. |  | **X** |  |
| **6** | Provides individual and professional development by having lifelong learning awareness and learns learning to learn. | **X** |  |  |
| **7** | Makes self assessment. | **X** |  |  |
| **8** | Reaches knowledge about her/his profession area by using a foreign language at a basic level. |  |  | **X** |
| **9** | Have knowledge about concepts, theory and applications of teaching profession, general culture and basic science. | **X** |  |  |
| **10** | Have ability of technical and pedagogical using for the purpose of information and communication technologies. |  | **X** |  |
| **11** | Makes most suitable teaching plans and applications by taking into account the developmental characteristics and individual differences of students, and subject area features and acquisitions. | **X** |  |  |
| **12** | Have information about national and international education system, structure and the historical development of the elementary teacher. |  | **X** |  |
| **13** | Have respect to national culture and universal values. |  |  | **X** |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**