

Teaching Mathematics I (3-0) 3

Objective and basic principles of mathematics teaching; The history of mathematics education (in the world and Turkey); teaching and learning strategies to be used in teaching mathematics; scope, purpose and features of the primary school mathematics program; major learning theories and their relation to mathematics learning; Important skills in mathematics education, associations, representations, communication, reasoning, problem solving (strategies, stages, problem types, etc.); use of information technology, development of number concept in child (pre-count improvement, individual comparison, cardinal value, merging, separation, comparison, equivalence, scarcity, multiplicity etc.); step value, formation and structural properties of natural numbers; Arithmetic operations, Related topics in 1st, 2nd and 3rd grade teaching curriculum of primary school mathematics lesson, achievements and examples of appropriate activities.

Course Material:

İlkokulda Matematik Öğretimi, Yaşar Baykul, Pegem A Yayıncılık, Ankara, 2014.

Supplementary Materials:

- İlköğretimde Etkinlik Temelli Matematik Öğretimi, Sinan Olkun ve Zülbiye Toluk, Anı Yayıncılık, Ankara, 2003.
- İlköğretimde Matematik Öğretimine Çağdaş Yaklaşımlar, Sinan Olkun ve Zülbiye Uçar, Ekinoks Ltd. Şti., Ankara, 2006.
- Problem Çözme (İlköğretim I. Kademe Matematik Dersi Örnekleriyle), Neşe Tertemiz, Melek Çakmak, Gündüz Eğitim ve Yayıncılık, Ankara, 2003.
- İlköğretim Matematik Dersi (1-4. Sınıflar) Öğretim Programı T.C. Milli Eğitim Bakanlığı Talim ve Terbiye Kurulu Başkanlığı, Ankara, 2015.