

### **Teaching Science and Technology I (3-0) 3**

Basic concepts of science and science education. Science, technology, characteristics of scientific knowledge and scientific method, science and technology literacy, science-technology-society-environment relations, attitudes towards science, aims of teaching science, historical development of science education in Turkey and in the world, constructivist approach and science learning, cognitive development and science education, characteristics of primary science program and its relation with other courses, development of scientific process skills and sample applications.

#### **Course Material:**

Fen ve Teknoloji Öğretimi, Ali Rıza Akdeniz, Alipaşa Ayas, Nevzat Yiğit Hakan Şevki Ayvacı, Salih Çepni ve Haluk Özmen, Öncü Basımevi, Ankara, 2015.

#### **Supplementary Materials:**

- İlköğretimde Fen ve Teknoloji Öğretimi, Ed. Mustafa Aydoğdu ve Teoman Kesercioğlu, Anı Yayıncılık, Ankara, 2005.
- Fen ve Teknoloji Programı (Tanıma, planlama, uygulama ve SBS'yle ilişkilendirme): İlköğretim 1. ve 2. Kademe Öğretmen El Kitabı, Salih Çepni ve Emine Çil, Pegem A Yayıncılık, Ankara, 2011.
- Fen Eğitiminde Özel Öğretim Yöntemleri I-II, Orhan Karamustafaoğlu ve Süleyman Yaman, Anı Yayıncılık, Ankara, 2010.