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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Dersin Adı** | | **Kodu** | **Yarıyıl** | **T+U** | **Kredi** | **AKTS** | | **Çocuk Bilim ve Teknoloji** | |  | 1 | 2+0 | 2 | 3 | | Ön koşul Dersler |  | | | | | | | Dersin Dili | Türkçe | | | | | | | Dersin Türü | Alan Seçmeli | | | | | | | Dersin Koordinatörü |  | | | | | | | Dersi Veren |  | | | | | | | Dersin Yardımcıları |  | | | | | | | Dersin Amacı | Çocuk Bilim ve Teknoloji dersi, çocuk gelişimi öğrencilerine bilimin ve teknolojinin çocuğun eğitimindeki ve gelişimindeki önemini kavrayarak bilim ve teknoloji temelli etkinlikler planlama ve uygulayabilme becerileri kazandırmayı amaçlar. | | | | | | | Dersin Öğrenme Çıktıları | Bu dersin sonunda öğrenci;   1. Çocukluk döneminde bilimsel düşünce ve bilimsel süreç becerilerinin gelişimini kavrar. 2. Çocukluk döneminde teknolojinin etkin kullanımının önemini kavrar. 3. Okul öncesinde bilim ve teknoloji temelli etkinlik planlar. | | | | | | | Dersin İçeriği | Çocukta bilimsel düşüncenin gelişimi, bilim ve teknoloji eğitiminde eğitimcinin rolü  sınıfta bilim ve teknoloji merkezi hazırlanması, stem ve proje yaklaşımları, bilim ve teknoloji temelli etkinlikler. | | | | | | | **Haftalar** | **Konular** | | | | | | | 1 | Dersin tanımı. Temel kavramlar | | | | | | | 2 | Çocuk, bilim ve teknoloji kavramları | | | | | | | 3 | Çocuk ve bilim | | | | | | | 4 | Çocukta bilimsel düşüncenin gelişimi | | | | | | | 5 | Çocuk ve teknoloji | | | | | | | 6 | Bilim ve teknoloji eğitiminde eğitimcinin rolü | | | | | | | 7 | Sınıfta bilim merkezi hazırlanması | | | | | | | 8 | Sınıfta teknoloji merkezi hazırlanması | | | | | | | 9 | STEM yaklaşımı | | | | | | | 10 | STEM yaklaşımı | | | | | | | 11 | Proje yaklaşımı | | | | | | | 12 | Proje yaklaşımı | | | | | | | 13 | Bilim ve teknoloji temelli etkinlikler | | | | | | | 14 | Bilim ve teknoloji temelli etkinlikler | | | | | |  |  | | --- | | **Genel Yeterlilikler** | | Öğrencilerden bu dersin ana konularını anlamaları ve alanları ile uygulamalarında kullanmaları beklenir. | | **Kaynaklar** | | Aktas Arnas Y.(2007). *Fen ve matematik ögreniyorum*. Morpa Kültür Yayınları.  Ayas, T. ve Horzum, M. B. [Ed.] (2016). *Teknolojinin olumsuz etkileri*. Vize Yayıncılık. | | **Değerlendirme Sistemi** | | Dönem başında ders izlencelerinde belirtilir. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **PROGRAM ÖĞRENME ÇIKTILARI İLE**  **DERS ÖĞRENİM ÇIKTILARI İLİŞKİSİ TABLOSU** | | | | | | | | | | | | | | | | |  | **PÇ1** | | **PÇ2** | **PÇ3** | | **PÇ4** | **PÇ5** | | **PÇ6** | **PÇ7** | | **PÇ8** | **PÇ9** | | **PÇ10** | | **ÖÇ1** | 5 | | - | - | | 3 | - | |  | - | | 5 | - | | - | | **ÖÇ2** |  | |  | - | | - | - | |  | - | | 5 | - | | - | | **ÖÇ3** | - | | 5 | 3 | | 5 | - | |  | - | | 5 | - | | - | | **ÖÇ: Öğrenme Çıktıları PÇ: Program Çıktıları** | | | | | | | | | | | | | | | | | **Katkı**  **Düzeyi** | | **1 Çok Düşük** | | | **2 Düşük** | | | **3 Orta** | | | **4 Yüksek** | | | **5 Çok Yüksek** | |   Program Çıktıları ve İlgili Dersin İlişkisi   |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Ders** | **PÇ1** | **PÇ2** | **PÇ3** | **PÇ4** | **PÇ5** | **PÇ6** | **PÇ7** | **PÇ8** | **PÇ9** | **PÇ10** | | **Çocuk Bilim ve Teknoloji** | 4 | 4 | 2 | 4 | - |  | - | 5 | - | - | |