**Ankara Üniversitesi**

**Kütüphane ve Dokümantasyon Daire Başkanlığı**

**Açık Ders Malzemeleri**

### Çalışma Planı (Çalışma Takvimi)

| **Haftalar** | **Haftalık Konu Başlıkları** |
| --- | --- |
| 1.Hafta | Quick Overview of Electromagnetic Theory |
| 2.Hafta | Waves in One Dimension |
| 3.Hafta | The Wave Equation for Electromagnetic Waves in Vacuum |
| 4.Hafta | Energy and Momentum in Electromagnetic Waves |
| 5.Hafta | Propagation in Linear Media |
| 6.Hafta | Reflection and Transmission in Oblique Incidence, Fresnel’s Equations |
| 7.Hafta | Electromagnetic Waves in Conductors |
| 8.hafta | The Frequency Dependence of Permittivity |
| 9.Hafta | Midterm Exam |
| 10.Hafta | Guided Waves in Rectangular Waveguides and Coaxial Transmission Lines |
| 11.Hafta | Scalar and Vector Potentials and Gauge Transformations, Coulomb and Lorenz Gauge |
| 12.Hafta | Retarded Potentials and Jefimenko's Equations |
| 13.Hafta | Lienard-Wiechert Potentials and the Fields of a Moving Charge |
| 14.Hafta | Presentations of students |