

**Ankara Üniversitesi**  
**Kütüphane ve Dokümantasyon Daire Başkanlığı**  
**Açık Ders Malzemeleri**

**Ders izlençe Formu**

<b>Dersin Kodu ve İsmi</b>	ENE436 NUCLEAR ENERGY
<b>Dersin Sorumlusu</b>	Dr. Eren Şahiner
<b>Dersin Düzeyi</b>	Undergraduate
<b>Dersin Kredisi</b>	Ulusal: 3, AKTS: 5
<b>Dersin Türü</b>	Theoretical
<b>Dersin İçeriği</b>	Introduction to nuclear physics, radioactivity, atomic structure and bonding energy, nuclear particles, radioactive decay, nuclear reactions, neutron-core interactions, neutron diffusion, neutron emission, fission, fusion, nuclear power, nuclear reactors, nuclear reactor design, nuclear materials and fuels, nuclear contamination, protection methods against nuclear contamination.
<b>Dersin Amacı</b>	Providing information on nuclear physics, nuclear energy, nuclear reactors and design
<b>Dersin Süresi</b>	1 term (4 hours weekly)
<b>Eğitim Dili</b>	English
<b>Ön Koşul</b>	Yok
<b>Önerilen Kaynaklar</b>	<ol style="list-style-type: none"><li>1- Murray, R., &amp; Holbert, K. E. (2014). Nuclear energy: an introduction to the concepts, systems, and applications of nuclear processes. Elsevier.</li><li>2- Tsoulfanidis, N. (Ed.). (2012). Nuclear energy: selected entries from the encyclopedia of sustainability science and technology. Springer Science &amp; Business Media.</li><li>3- Introduction to Nuclear Engineering, 3rd Ed., J.R. Lamarsh, A.J. Barata, Prentice Hall, 2001.</li><li>4- Nuclear Energy: Principles, Practices, And Prospects, D. Bodansky, Springer, New York, 2004."</li></ol>