**Ankara Üniversitesi  
Kütüphane ve Dokümantasyon Daire Başkanlığı**

**Açık Ders Malzemeleri**

Ders izlence Formu

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| Dersin Kodu ve İsmi | CHM 225 Environmental Chemistry I |
| Dersin Sorumlusu | Arş. Gör. Dr. Ceren Kaçar Selvi |
| Dersin Düzeyi | Lisans |
| Dersin Kredisi | 3 |
| Dersin Türü | Seçmeli |
| Dersin İçeriği | Energy sources, Fossil fuels, Petroleum, Oil refining, Natural gas, Coal, Nuclear energy, Nuclear reactors, Renewable energy sources, PV cells, Other renewable resources. Carbon emissions and global warming, Greenhouse effect, CFC gases and their effects. Structure of atmosphere, air pollutants, CFC gases and effects on the ozone layer in stratosphere, greenhouse effect. |
| Dersin Amacı | To correlate anthropogenic activities with equilibrium changing between atmosphere, hydrosphere, lithosphere and biosphere. To explain the chemical reactions that cause the ozone layer to become contaminated, which is caused by thinning in the atmosphere. Describe greenhouse effect and global warming. To demonstrate energy production systems, to compare and criticize energy from fossil fuels, energy from nuclear reactors, and energy potential from renewable energy sources. |
| Dersin Süresi | 3 saat/hafta |
| Eğitim Dili | İngilizce |
| Ön Koşul | - |
| Önerilen Kaynaklar | ‘‘Enviromental Chemistry’’, Stanley E. Manahan, 9th Ed., 2010.  ‘‘Chemistry of the Environment’’, Thomas G. Spiro and William M. Stigliani, 1996.  ‘‘Environmental Chemistry-Fundamentals’’, Jorge G. Ibanez, Margarita Hemandez-Esparza, Carmen Doria-Serrano, Arturo Fregoso-Infante, Mono Mohan Singh, 2007.  “Energy: Past, Present, and Future: Fossil Fuels”, Robert Curley (Editor), 2012.  Nuclear Energy: An Introduction to the Concepts, Systems, and Applications of Nuclear Processes”, Raymond L. Murray and Keith E. Holbert, 7th Ed., 2015. |
| Dersin Kredisi (AKTS) | 3 (5) |
| Laboratuvar | - |
| Diğer-1 | - |