**Ankara Üniversitesi  
Kütüphane ve Dokümantasyon Daire Başkanlığı**

**Açık Ders Malzemeleri**

Ders izlence Formu

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| --- | --- |
| Dersin Kodu ve İsmi | CHM 226 Environmental Chemistry II |
| Dersin Sorumlusu | Arş. Gör. Dr. Ceren Kaçar Selvi |
| Dersin Düzeyi | Lisans |
| Dersin Kredisi | 2 |
| Dersin Türü | Seçmeli |
| Dersin İçeriği | Hydrosphere pollution, Pollution parameters in water, wastewater treatment plants, provide of drinking and fresh water. Heavy metals accumulation in environment and their effects on the human healths. Solid wastes, storage and disposal of solid wastes. Agricultural pollution, pesticides and fertilizers, the pollution from excess fertiliziers using and pesticides. The chemistry of soils, acid rain and neutralisation of acid rain in soil. Energetic materials, explosives, classification of explosives. |
| Dersin Amacı | To correlate anthropogenic activities with equilibrium deterioration between atmosphere, hydrosphere, lithosphere and biosphere. The negative effects of hydrosphere pollution in the last century on human life. Associated with anthropogenic activities, ecological interpretation. Disposal methods of wastewater from industrial and city water networks, water issues and challenges. Heavy metal contamination in hydrosphere and lithosphere and associated with anthropogenic activities. Introducing the methods of disposal of solid wastes, educating the students about the effects of chemical warfare materials and agricultural chemicals and respecting nature and knowing and applying their responsibility towards nature. |
| Dersin Süresi | 2 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.  “Chemistry of High-Energy Materials”, Thomas M. Klapötke, 4th Ed., 2017.  “Chemical warfare agents”, K. Ganesan, S. K. Raza, and R. Vijayaraghavan, Ganesan K, Raza SK, Vijayaraghavan R. Journal of Pharmacy & Bioallied Sciences 2010;2(3):166–178. |
| Dersin Kredisi (AKTS) | 2 (4) |
| Laboratuvar | - |
| Diğer-1 | - |