**Ankara Üniversitesi  
Kütüphane ve Dokümantasyon Daire Başkanlığı**

**Açık Ders Malzemeleri**

Ders izlence Formu

|  |  |
| --- | --- |
| Dersin Kodu ve İsmi | **FMUS1003 Su okuryazarlığı** |
| Dersin Sorumlusu | Dr. Öğr. Üyesi Şeyda Fikirdeşici Ergen |
| Dersin Düzeyi | Lisans |
| Dersin Kredisi | 3 AKTS |
| Dersin Türü | Seçmeli |
| Dersin İçeriği | Sulak alanın tanımı yapılır. Sulak alanlardaki kirliliğin etkileri öğretilir ve çözüm yolları tartışılır. Suyun en doğru şekilde kullanımı kavranır. |
| Dersin Amacı | Sulak alanları ve sulak alanlardaki kirliliğin nedenlerini açıklayarak suyun doğru kullanımını öğretmeyi amaçlar. |
| Dersin Süresi | 14 Hafta |
| Eğitim Dili | Türkçe |
| Ön Koşul | - |
| Önerilen Kaynaklar | |  | | --- | | Tanyolaç, J. 2000. Limnoloji. Hatiboğlu Yayınevi, Ankara. | | Wetzel, G.R. 2017. editor Ergönül, M.B. Limnoloji, Göl ve Nehir Ekosistemleri. 3. baskıdan çeviri. Nobel Yayıncılık, Ankara. | | Nürnberg, G.K., 2017. Attempted management of cyanobacteria by Phoslock (lanthanum-modified clay) in Canadian lakes: water quality results and predictions. Lake Reserv. Manag. 33, 163–170. doi:10.1080/10402381.2016.1265618 | | Pérez-Sirvent, C., Hernández-Pérez, C., Martínez-Sánchez, M.J., García-Lorenzo, M.L. and Bech, J. 2017. Metal uptake by wetland plants: implications for phytoremediation and restoration. J Soils Sediments, 17:1384–1393 | | Kometa, S. S., Kimengsi, J. N. And Petiangma, D.M. 2018. Urban Development and its Implications on Wetland Ecosystem Services in Ndop, Cameroon, Environmental Management and Sustainable Development, Vol. 7, No. 1 | | Phytoremediation - Hinchman, Negri, and Gatliff, 2017. Argonne National Laboratory and Applied Natural Sciences, Inc., Phytoremediation: Using Green Plants to Clean Up Contaminated Soil, Groundwater, and Wastewater | | Khan, M. Nasir and Mohammad, F. (2014 ) "Eutrophication of Lakes" in A. A. Ansari, S. S. Gill (eds.), Eutrophication: Challenges and Solutions; Volume II of Eutrophication: Causes, Consequences and Control, Springer Science+Business Media Dordrecht | | Chislock, M.F.; Doster, E.; Zitomer, R.A.; Wilson, A.E. (2013). "Eutrophication: Causes, Consequences, and Controls in Aquatic Ecosystems". Nature Education Knowledge. 4 (4): 10. Retrieved 10 March 2018. | | Xie, Zhenglei, Zhang, Hezi, Zhao, Xiaoxiang, Du, Zebing, Xiang, Lixiong, et al. 2016. Assessment of Heavy Metal Contamination and Wetland Management in a Newly Created Coastal Natural Reserve, China Journal of Coastal Research, 32(2) : 374-386. | | G. Zhang et al.2016. Heavy metals in wetland soils along a wetland-forming chronosequence in the Yellow River Delta of China: Levels, sources and toxic risks. Ecological Indicators 69 (2016) 331–339 | | J. Tournebize et al. 2017. Implications for constructed wetlands to mitigate nitrateand pesticide pollution in agricultural drained watershed. Ecological Engineering 103 (2017) 415–425. | | Mander, Ü., Tournebize, J., Kasak, K., Mitsch, W.J., 2014. Climate regulation byfree water surface constructed wetlands for wastewater treatment and createdriverine wetlands. Ecol. Eng. 72, 103–115 | | Fikirdeşici-Ergen, Ş et al. 2018. Bioremediation of heavy metal contaminated medium using Lemna minor, Daphnia magna and their consortium. Chemistry and Ecology. 34(1):43-55 | | Fikirdeşici-Ergen, Ş and Üçüncü-Tunca, E. 2018. Nanotoxicity Modelling and Removal Efficiencies of ZnONP, International Journal of Phytoremediation 20(1):16-26 | | Yakup Sedat VELIOGLU, Şeyda FİKİRDEŞİCİ-ERGEN, Pelin AKSU, Ahmet ALTINDAĞ. 2018. Effects of Ozone Treatment on the Degradation and Toxicity of Several Pesticides in Different Groups, Journal of Agricultural Sciences, 24(2):245-255 | |
| Dersin Kredisi | 3 AKTS |
| Laboratuvar |  |
| Diğer-1 |  |