**Ankara Üniversitesi
Kütüphane ve Dokümantasyon Daire Başkanlığı**

**Açık Ders Malzemeleri**

Ders izlence Formu

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| Dersin Kodu ve İsmi | 101612 Retrospective Dosimetry Applications |
| Dersin Sorumlusu | Dr. Georgios Polymeris |
| Dersin Düzeyi | Yüksek Lisans |
| Dersin Kredisi | Ulusal: 2, AKTS: 4 |
| Dersin Türü | Laboratory Application |
| Dersin İçeriği | * Determination of radiation dose at concerned material.
* Preparation of different material for measurement on TL, OSL. Calibration of internal beta source using various luminescence materials with reference to standard photon sources.
* Investigation of dependency on radiation dose of TL, OSL curves
* Determination of trap parameters of synthetic and natural phosphors.
* Depth dependent dose measurements.
* Determination of source energy and configurations by use of luminescence depth dose dependence.
* Error analysis
 |
| Dersin Amacı | Acquiring the experimental experience due to implementing measurement protocols as well as analysing luminescence spectra and results on luminescence retrospective dosimetry, dating and environmental research, applications and limitations using luminescence methods. |
| Dersin Süresi | 1 term (4 hours weekly) |
| Eğitim Dili | English |
| Ön Koşul | Yok |
| Önerilen Kaynaklar |  **1.** SWS McKeever, Thermoluminescence of Solids, Cambridge Uni. Press (1985)**2.** Aitken, M.J., 1998. An Introduction to Optical Dating. Oxford University Press, Oxford.3. Aitken, M.J., 1985. Thermoluminescence Dating. Oxford University Press, Oxford. |
| Laboratuvar | Every week  |