**Ankara Üniversitesi
Kütüphane ve Dokümantasyon Daire Başkanlığı**

**Açık Ders Malzemeleri**

Ders izlence Formu

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| Dersin Kodu ve İsmi | CHM-0473 Organic Analysis |
| Dersin Sorumlusu | Prof. Dr. Mustafa GÜLLÜ |
| Dersin Düzeyi | Bachelor's Degree |
| Dersin Kredisi | 3 (ECTS: 4) |
| Dersin Türü | Selective |
| Dersin İçeriği | Introduction to organic analysis; basic concepts, analysis strategy, seperation and purification methods, distillation, crystallization, extraction, sublimation, chromatografic methods. Introduction to spectroscopy, basic methods of spectroscopy, IR spectroscopy, IR spectra examples and problems, NMR spectroscopy, HNMR spectra examples and problems, structure analysis, C-13 NMR spectroscopy, C-13 spectra examples and problems, mass spectroscopy. |
| Dersin Amacı | This course includes understanding organic analysis strategy, using different separation and purification methods, performing structural analysis of pure compounds by spectroscopic methods, understanding the basic principles of spectroscopic methods used for this purpose, evaluating IR, HNMR, mass spectrum samples and problems separately and together, and determination of unknown structures. intended. |
| Dersin Süresi | 3 hours |
| Eğitim Dili | English |
| Ön Koşul | - |
| Önerilen Kaynaklar | * Denel Organik Kimya, Prof. Dr. Ender Erdik
* Kalitatif Organik Analiz, Prof. Dr. Nadire Yüksekışık
* Organic Qualitative Analysis, Vogel
* The Systematic Identification of Organic Compounds, Shriner, Herman, ..
* Organik Kimyada Spektroskopik Yöntemler, Prof. Dr. Ender Erdik
* Introduction to spectroscopy, D.L.Pavia, G.M.Lampman, and G.S.Kriz
* Spectroscopic Methods in Organic Chemistry, M.Hesse, H.Meier and B. Zeeh
* Spectrometric Identification of Organic Compounds, R.M. Silverstein, F.X. Webs.
* Spectroscopic Methods in Organic Chemistry, D.H.Williams and I.Fleming
* Interpretation of Mass Spectra, F.W. McLafferty,
* Carbon-13 NMR, G.C. Levy, R.L. Lichter and G.L. Nelson,
* Basic Liquid Chromatography, , N.Hadden et al.,
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| Dersin Kredisi (AKTS) | 3 (ECTS: 4) |
| Laboratuvar | - |
| Diğer-1 | - |