**Ankara Üniversitesi**

**Kütüphane ve Dokümantasyon Daire Başkanlığı**

**Açık Ders Malzemeleri**

Çalışma Planı (Weekly Course Flow)

| **Weeks** | **Topics**  |
| --- | --- |
| 1.Week | Introduction to Instrumental Analysis |
| 2. Week | Electromagnetic spectrum and effects on the matter |
| 3. Week | Introduction to atomic spectroscopy |
| 4. Week | Atomic Absorption methods, background corrections, devices |
| 5. Week | LOD, LOQ and calibration in AAS methods |
| 6. Week | AES methods, ICP devices |
| 7. Week | Introduction to molecular spectroscopy, principles |
| 8. Week | Lambert-Beer Law and UV-VIS devices |
| 9. Week | Luminescence methods, florimeters |
| 10. Week | Introduction to IR spectroscopy, principles and applications.IR , FTIR devices |
| 11. Week | Nuclear magnetic resonance, basics and principles |
| 12. Week | Spin-spin splitting, first order spectra.13C NMR method |
| 13. Week | Mass spectrometry, ionisation and dedection methods. EI,CI,FI,ESI,MALDI |
| 14. Week | Mass spectrometry, ionisation and dedection methods. EI,CI,FI,ESI,MALDI |