**Ankara Üniversitesi  
Kütüphane ve Dokümantasyon Daire Başkanlığı**

**Açık Ders Malzemeleri**

Ders izlence Formu

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| Dersin Kodu ve İsmi | CHM215 |
| Dersin Sorumlusu | PROF.DR. MERAL KARAKIŞLA ŞAHİN |
| Dersin Düzeyi | LİSANS |
| Dersin Kredisi | Kred: 5, AKTS . 8 |
| Dersin Türü | ZORUNLU |
| Dersin İçeriği | Define important thermodynamic concepts, such as thermodynamic system, thermodynamic process, cycle, heat, work 2-State the four fundamental laws of thermodynamics 3. Apply first law of thermodynamics to closed and open systems and develop relevant equations 4. Introduce and define thermodynamic properties such as internal energy and enthalpy 5. Discuss the importance of second law of thermodynamics and state Carnot theorems 6-Obtain expressions for Carnot efficiency of heat engine, refrigerator and heat pump 8. State Clausius inequality and introduce the property ‘entropy’ 9-Chemical equilibrium |
| Dersin Amacı | It is purpose to explain fundemental properties and principles of physical chemistry, To learn knowledge about the different properties of matter, to discover theories, model and laws  investigated explanations of what may be occurring in our world using different scientific ways thermodynamic, quantume mechanic, kinetic and electrochemistry. To Discuss the importance of laws of thermodynamic detailed. |
| Dersin Süresi | 6 saat/hafta |
| Eğitim Dili | İNGİLİZCE |
| Ön Koşul | --- |
| Önerilen Kaynaklar | 1-Atkins…  2-The Elements of Phsical Chemistry, Samuel Glasstone, Macmillan and Co LTD, London, 1950 |
| Dersin Kredisi | 5 |
| Laboratuvar | -- |
| Diğer-1 |  |