**Ankara Üniversitesi
Kütüphane ve Dokümantasyon Daire Başkanlığı**

**Açık Ders Malzemeleri**

Ders izlence Formu

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| Dersin Kodu ve İsmi | MTH3338 PARTIAL DIFFERENTIAL EQUATIONS |
| Dersin Sorumlusu | Rabia AKTAŞ |
| Dersin Düzeyi | Lisans |
| Dersin Kredisi | Ulusal Kredi:3 AKTS:4 |
| Dersin Türü | Seçmeli |
| Dersin İçeriği | Curves and Surfaces in 3- dimensional space, Classification of partial differential equations, solution, Pfaffian systems and their solutions, Origins of First order partial differential equations, Cauchy problem for first-order partial differential equations, First order linear partial differential equations, Surfaces orthogonal to a given system of surfaces, First-order nonlinear partial differential equations, Compatible systems, Charpit's method, First-order special type partial differential equations and partial differential equations transformed special type equations, Applications of first order partial differential equations, Higher order partial differential equations, Second order linear partial differential equations with constant coefficients |
| Dersin Amacı | The aim of this course is to give basic concepts of the theory of partial differentail equations and the solution methods and solutions of some types of partial differential equations. |
| Dersin Süresi | 14 hafta |
| Eğitim Dili | İngilizce |
| Ön Koşul | Yok |
| Önerilen Kaynaklar | 1. Ian Sneddon , Elements of Partial Differential Equations, McGraw-Hill International Editions (Mathematics Series), 1985
2. Richard Haberman, Applied Partial Differential Equations: with Fourier Series and Boundary Value Problems (Fourth Edition), Pearson Education (2004)
3. R. Dennemeyer, Introduction to Partial Differential Equations and Boundary Value Problems., McGraw-Hill, New York , 1986.
4. Okay Çelebi, M. Çağlayan, Kısmi Diferensiyel Denklemler, 2002.
5. Kerim Koca, Kısmi Türevli Denklemler, 2012.
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| Dersin Kredisi | Ulusal Kredi:3 AKTS:4 |
| Laboratuvar | - |
| Diğer-1 | - |