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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Dersin Adı** | | **Kodu** | **Yarıyıl** | **T+U** | **Kredi** | **AKTS** | | Davranış Bilimleri ve Halkla İlişkiler | |  | I | 2+0 | 2 | 2 | | Ön koşul Dersler |  | | | | | | | Dersin Dili | Türkçe | | | | | | | Dersin Türü | Seçmeli | | | | | | | Dersin Koordinatörü |  | | | | | | | Dersi Veren | Öğr. Gör. Şeyhmus Rüzgar | | | | | | | Dersin Yardımcıları |  | | | | | | | Dersin Amacı | Davranışların nedenleri ve davranışı etkileyen faktörler konusunda temel bilgi kazandırma. İletişimin ve davranışın gündelik yaşam ve iş yaşamındaki önemini kavratmak İş ve okul yaşamında başarılı olmak için farklı iletişim ve davranış modellerini öğretme. Uygar ve etkin bir birey olmak için gerekli bilgileri sağlama.  Halkla İlişkiler alanın önemini, amacını, temel kavram ve ilkeleri ile dünyada ve Türkiye’deki tarihi gelişimini kavrama.  -Halkla İlişkilerin çalışma alanlarını (tanıtım, propaganda, reklam ve imaj), kullandığı yöntem ve araçları ile halkla ilişkiler personelinin niteliklerini ve uyulması gereken etik ilkeleri öğretme amaçlanmaktadır. | | | | | | | Dersin Öğrenme Çıktıları | Bu dersin sonunda öğrenci;  **1.** Davranış bilimlerini tanımlayabilir.  **2.** Davranış bilimlerinin sosyoloji, psikoloji ve diğer bilim dalları ile olan ilişkilerini kavrar.  **3.** Sosyal kurumlar, kültür kavramı, tabakalaşma, algı ve güdü kavramlarını tanımlayabilir.  **4.** Halkla ilişkileri tanımlayabilir, temel ilkelerini bilir.  **5.** Halkla ilişkiler biriminin görevlerini bilir. | | | | | | | Dersin İçeriği | Davranış bilimlerinin tanımlanması ve diğer bilim dalları ile olan ilişkilerinin kavranması,  Sosyal kurumlar, kültür kavramı, tabakalaşma, algı ve güdü kavramlarının tanımlanması, Halkla ilişkilerin tanımlanması, temel ilkelerinin bilinmesi, Halkla ilişkiler biriminin görevlerinin bilinmesi. | | | | | | | **Haftalar** | **Konular** | | | | | | | 1 | Davranış kavramının tanımlanması, Davranış bilimlerini ve ilgili bilim dallarının incelenmesi | | | | | | | 2 | Davranış Bilimleri Araştırma Yöntemleri Rol çeşitleri, rol çatışması ve rol belirsizliği kavramlarının öğrenilmesi | | | | | | | 3 | Sosyal kurumlar olan aile, eğitim, devlet ve din kurumlarının incelenmesi ve insanların gelişimi üzerindeki etkilerinin tartışılması | | | | | | | 4 | Kültür kavramının tanımlanması ve Kültürün özelliklerini ve unsurlarının incelenmesi | | | | | | | 5 | Sosyal tabakalaşma kavramının tanımlanması ve tabakalaşma çeşitlerini incelenmesi | | | | | | | 6 | Davranış bilimlerinde psikoloji biliminin incelenmesi | | | | | | | 7 | Güdülerin tanımlanması | | | | | | | 8 | Güdülerin tanımlanması | | | | | | | 9 | Algı kavramının tanımlanması | | | | | | | 10 | Halkla ilişkilerin tanımı, amaçları, temel kuram ve ilkelerinin incelenmesi | | | | | | | 11 | Halkla ilişkilerin örgütsel yapısı | | | | | | | 12 | Halkla ilişkiler biriminin görevleri | | | | | | | 13 | Halkla ilişkiler uzmanında bulunması gereken nitelikler | | | | | | | 14 | Halkla ilişkilerin reklam, propaganda, pazarlama, tanıtım ve iletişim alanındaki çalışmalarının ele alınması | | | | | |  |  | | --- | | **Genel Yeterlilikler** | | 1-İletişim ve halkla ilişkilere temel teşkil eden Psikoloji, Sosyoloji ve Sosyal Psikoloji disiplinlerini tanıyabilir.  2-İnsan davranışını, davranışa etki eden sosyal süreçleri anlayabilir. | | **Kaynaklar** | | Kağıtçıbaşı Ç. (2012). *Günümüzde İnsan ve İnsanlar Davranış Bilimleri*. Eskişehir: AÖF Yayınları.  Tutar, H. (2015). DAVRANIŞ BİLİMLERİ. Eskişehir. ATA-AÖF  Güney, S. (2017). *Davranış Bilimleri*. Ankara: Nobel Akademik Yayıncılık. | | **Değerlendirme Sistemi** | | Dönem başında ders izlence formunda ilan edilir. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **PROGRAM ÖĞRENME ÇIKTILARI İLE**  **DERS ÖĞRENİM ÇIKTILARI İLİŞKİSİ TABLOSU** | | | | | | | | | | | | | | | | | |  | **PÇ1** | | **PÇ2** | **PÇ3** | | **PÇ4** | **PÇ5** | **PÇ6** | | **PÇ7** | **PÇ8** | | **PÇ9** | **PÇ10** | **PÇ11** | **PÇ12** | | **ÖÇ1** |  | |  |  | |  |  |  | |  |  | | 3 |  | 3 | 3 | | **ÖÇ2** |  | |  |  | |  |  |  | |  |  | | 3 |  | 3 | 3 | | **ÖÇ3** |  | |  |  | |  |  |  | |  |  | | 3 |  | 3 | 3 | | **ÖÇ4** |  | |  |  | |  |  |  | |  |  | | 3 |  | 3 | 3 | | **ÖÇ5** |  | |  |  | |  |  |  | |  |  | | 3 |  | 3 | 3 | | **ÖÇ: Öğrenme Çıktıları PÇ: Program Çıktıları** | | | | | | | | | | | | | | | | | | **Katkı**  **Düzeyi** | | **1 Çok Düşük** | | | **2 Düşük** | | | | **3 Orta** | | | **4 Yüksek** | | **5 Çok Yüksek** | | |   Program Çıktıları ve İlgili Dersin İlişkisi   |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Ders** | **PÇ1** | **PÇ2** | **PÇ3** | **PÇ4** | **PÇ5** | **PÇ6** | **PÇ7** | **PÇ8** | **PÇ9** | **PÇ10** | **PÇ11** | **PÇ12** | | Davranış Bilimleri ve Halkla İlişkiler |  |  |  |  |  |  |  |  | 3 |  | 3 | 3 | |

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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Dersin Adı** | | **Kodu** | **Yarıyıl** | **T+U** | **Kredi** | **AKTS** | | Genetik ve Islah | |  | I | 3+0 | 3 | 3 | | Ön koşul Dersler |  | | | | | | | Dersin Dili | Türkçe | | | | | | | Dersin Türü | Zorunlu | | | | | | | Dersin Koordinatörü |  | | | | | | | Dersi Veren |  | | | | | | | Dersin Yardımcıları |  | | | | | | | Dersin Amacı | Klasik, moleküler ve popülasyon genetiğin temel ilkelerini öğrenmek Bitki ıslahının temel genetik ilkeleri ve klasik ıslah yöntemleri ve dayanıklılık ıslahı ve bitki yetiştiriciliğinde karşılaşılan sorunların genetik olarak çözümünde kullanılacak yöntemleri öğretmektir. | | | | | | | Dersin Öğrenme Çıktıları | Bu dersin sonunda öğrenci;  1. Kalıtımın kurallarını öğrenir.  2. Mayoz ve mitoz bölünmeyi kavrar.  3. Tek ve çok genli kalıtımı bilir.  4. Popülasyon genetiği ve moleküler genetik hakkında temel bilgileri kavrar.  5. Bitki ıslahının temellerini kavrar | | | | | | | Dersin İçeriği | Ders planı ve içeriği çizelgede sunulmuştur | | | | | | | **Haftalar** | **Konular** | | | | | | | 1 | Genetik tarihçe, tanım ve bitki genetiği | | | | | | | 2 | Genetik ve Bitki ıslahının amaçları, Kültür bitkilerinin gelişme süreci. | | | | | | | 3 | Gen merkezleri ve bitki introdüksiyonları. Bitkilerde üreme biçimleri | | | | | | | 4 | Kalıtım materyali, Nükleik asitler, DNA nın organizasyonu | | | | | | | 5 | Mayoz ve mitoz bölünmenin esasları, önemi, gamet oluşumu | | | | | | | 6 | DNA replikasyon, transkripsiyon ve translasyon (santral dogma teoremi) | | | | | | | 7 | Mendel yasaları | | | | | | | 8 | Kendileme koşullarında populasyonun yapısı. Melezlemenin genetik sonuçları | | | | | | | 9 | Linkage, crossing-over, genetik haritalama | | | | | | | 10 | Heritabiliti (kalıtım derecesi) | | | | | | | 11 | Kantitatif kalıtım (Genlerin etki biçimleri, Poligenler, Kalıtım derecesi kavramı). Populasyondaki genetik varyasyon | | | | | | | 12 | Çevre koşullarının bitki ıslahındaki rolü ve kalıtım derecesi. Seleksiyon kazancı | | | | | | | 13 | Kendine döllenen ve Yabancı döllenen bitki ıslah yöntemleri, Dayanıklılık ıslahı, Özel Islah yöntemleri (Poliploidi Islahı, Bitki ıslahında tür ve genus melezleri, Mutasyon ıslahı) | | | | | | | 14 | GDO Kavramı -Gen mutasyonları | | | | | |  |  | | --- | | **Genel Yeterlilikler** | | 1-Genetiğin temel ilke ve esaslarını kavramak, mayoz bölünmenin kalıtımdaki önemini anlamak, modifikasyon ve kalıtım arasındaki temel farkı kavrar. | | **Kaynaklar** | | Demir, İ., (1986). Genetik. İzmir: E.Ü.Z.F. Yayınları No: 263  Hennig, W., (1998). Genetik. Berlin: Springer Verlag.  Lewin, B., (1983). Genes. New York: John Wiley& Sons Inc.  Maxson, L. R., and Daugherty, C. H., (1985). Genetics. New York: WM. C. Brown Publishers | | **Değerlendirme Sistemi** | | Dönem başında ders izlence formunda ilan edilir. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **PROGRAM ÖĞRENME ÇIKTILARI İLE**  **DERS ÖĞRENİM ÇIKTILARI İLİŞKİSİ TABLOSU** | | | | | | | | | | | | | | | | | | |  | **PÇ1** | | **PÇ2** | **PÇ3** | | **PÇ4** | **PÇ5** | **PÇ6** | | **PÇ7** | **PÇ8** | | **PÇ9** | **PÇ10** | **PÇ11** | | **PÇ12** | | **ÖÇ1** | 5 | | 5 | 3 | | 3 | 3 |  | |  |  | |  | 5 | 4 | |  | | **ÖÇ2** | 5 | | 5 | 3 | | 3 | 3 |  | |  |  | |  | 5 | 4 | |  | | **ÖÇ3** | 5 | | 5 | 3 | | 3 | 3 |  | |  |  | |  | 5 | 4 | |  | | **ÖÇ4** | 5 | | 5 | 3 | | 3 | 3 |  | |  |  | |  | 5 | 4 | |  | | **ÖÇ5** | 5 | | 5 | 3 | | 3 | 3 |  | |  |  | |  | 5 | 4 | |  | | **ÖÇ: Öğrenme Çıktıları PÇ: Program Çıktıları** | | | | | | | | | | | | | | | | | | | **Katkı**  **Düzeyi** | | **1 Çok Düşük** | | | **2 Düşük** | | | | **3 Orta** | | | **4 Yüksek** | |  | | **5 Çok Yüksek** | |   Program Çıktıları ve İlgili Dersin İlişkisi   |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Ders** | **PÇ1** | **PÇ2** | **PÇ3** | **PÇ4** | **PÇ5** | **PÇ6** | **PÇ7** | **PÇ8** | **PÇ9** | **PÇ10** | **PÇ11** | **PÇ12** | | Genetik ve Islah | 5 | 5 | 3 | 3 | 3 |  |  |  |  | 5 | 4 |  | |

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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Dersin Adı** | | **Kodu** | **Yarıyıl** | **T+U** | **Kredi** | **AKTS** | | İstatistik | |  | I | 2+0 | 2 | 2 | | Ön koşul Dersler |  | | | | | | | Dersin Dili | Türkçe | | | | | | | Dersin Türü | Seçmeli | | | | | | | Dersin Koordinatörü |  | | | | | | | Dersi Veren |  | | | | | | | Dersin Yardımcıları |  | | | | | | | Dersin Amacı | Bu derste; istatistiğin temel kavramları tanımını yapabilmeyi, istatistiğin temel kavramlarını kendi içinde ayırt edebilmeyi, istatistik serilerini açıklayabilmeyi, istatistik serilerini grafik yardımıyla açıklayabilmeyi, merkezi eğilim ve değişkenlik ölçülerini sayabilmeyi, hangi durumda hangi ölçünün hesaplanması gerektiğine karar verebilmeyi, herhangi bir veri seti için uygun ortalamayı hesaplayıp yorumlayabilmeyi, serilerin birbirlerine göre değişkenliğini kıyaslayabilme becerilerini kazandırılması amaçlanmaktadır. | | | | | | | Dersin Öğrenme Çıktıları | **1.**İstatistik ile ilgili temel kavramları bilmek.  **2.**Araştırmaya konu olan verileri düzenlemek  **3.**Tablo ve grafik oluşturabilmek.  **4.**Hipotez kurabilmek ve hipotez testlerini yapabilmek  **5.**İstatistik analiz yapabilmek. | | | | | | | Dersin İçeriği | İstatistik Tanımı, Temel Kavramlar, Verilerin Düzenlenmesi, Serilerin Grafikleri, Aritmetik-Tartılı-Geometrik-Harmonik Ortalama, Mod, Medyan, Ortalama Seçimi, Standart Sapma, standart Hata, Değişim Aralığı, Hipotez Testleri, Khi kare testi, Regresyon Korelasyon Zaman Serileri konularını içerir. | | | | | | | **Haftalar** | **Konular** | | | | | | | 1 | İstatistiğin tanımı ve kullanım alanları | | | | | | | 2 | İstatistik türleri | | | | | | | 3 | İstatistiğin temel kavramları | | | | | | | 4 | İstatistiğin temel kavramları | | | | | | | 5 | Veri kaynaklarının düzenlenmesi | | | | | | | 6 | Tablolar ve Grafiklerin oluşturulması | | | | | | | 7 | Dağılım ölçüleri | | | | | | | 8 | Dağılım ölçüleri | | | | | | | 9 | Merkezi eğilim ölçüleri | | | | | | | 10 | Sürekli popülasyon dağılımları | | | | | | | 11 | Sürekli popülasyon dağılımları | | | | | | | 12 | Ki-Kare Testleri | | | | | | | 13 | Regresyon Analizi | | | | | | | 14 | Korelasyon Analizi | | | | | |  |  | | --- | | **Genel Yeterlilikler** | | Öğrencilere veri yapısını ve verilerin değerlendirilip çeşitli istatistiksel yöntemlerle değerlendirilmesini ve yorumlamasını sağlamakla birlikte geçmişe ait ve günümüzdeki verilerden yararlanarak geleceğe yönelik tahminler ve modelleme yapabilme yeteneğini kazanacaktır. | | **Kaynaklar** | | Aslanargun , A., Yazıcı, B., M. Kantar, Y., Şenoğlu, B., Usta, İ. T.C. Anadolu Üniversitesi Yayını No: 2608.  Açıköğretim Fakültesi Yayını No: 1576, Editörler Embiya Ağaoğlu, Mahmut Atlas.  Bakır, M. A., Aydın, C. (2015). İstatistik ‘Meslek Yüksek Okulları İçin’.  Arıcı, H. (2001). İstatistik Yöntemler ve Uygulamalar. | | **Değerlendirme Sistemi** | | **Dönem başında ders izlence formunda ilan edilir.** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **PROGRAM ÖĞRENME ÇIKTILARI İLE**  **DERS ÖĞRENİM ÇIKTILARI İLİŞKİSİ TABLOSU** | | | | | | | | | | | | | | | | | | |  | **PÇ1** | | **PÇ2** | **PÇ3** | | **PÇ4** | **PÇ5** | **PÇ6** | | **PÇ7** | **PÇ8** | | **PÇ9** | **PÇ10** | | **PÇ11** | **PÇ12** | | **ÖÇ1** |  | |  |  | |  |  |  | |  |  | | 2 |  | |  | 4 | | **ÖÇ2** |  | |  |  | |  |  |  | |  |  | | 2 |  | |  | 4 | | **ÖÇ3** |  | |  |  | |  |  |  | |  |  | | 2 |  | |  | 4 | | **ÖÇ4** |  | |  |  | |  |  |  | |  |  | | 2 |  | |  | 4 | | **ÖÇ5** |  | |  |  | |  |  |  | |  |  | | 2 |  | |  | 4 | | **ÖÇ: Öğrenme Çıktıları PÇ: Program Çıktıları** | | | | | | | | | | | | | | | | | | | **Katkı**  **Düzeyi** | | **1 Çok Düşük** | | | **2 Düşük** | | | | **3 Orta** | | | **4 Yüksek** | | | **5 Çok Yüksek** | | |   Program Çıktıları ve İlgili Dersin İlişkisi   |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Ders** | **PÇ1** | **PÇ2** | **PÇ3** | **PÇ4** | **PÇ5** | **PÇ6** | **PÇ7** | **PÇ8** | **PÇ9** | **PÇ10** | **PÇ11** | **PÇ12** | | İstatistik |  |  |  |  |  |  |  |  | 2 |  |  | 4 | |

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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Dersin Adı** | | **Kodu** | **Yarıyıl** | **T+U** | **Kredi** | **AKTS** | | Şifalı Bitkiler | |  | I | 2+0 | 2 | 2 | | Ön koşul Dersler |  | | | | | | | Dersin Dili | Türkçe | | | | | | | Dersin Türü | Seçmeli | | | | | | | Dersin Koordinatörü |  | | | | | | | Dersi Veren | Dr. Öğr. Üyesi Fatma BAŞDEMİR | | | | | | | Dersin Yardımcıları |  | | | | | | | Dersin Amacı | Halen bazı hastalıkların tedavisinde önemli bir yere sahip olan şifalı bitkileri öğrencilere öğretmek ve tedavi amacı ile müshil, yumuşatıcı, hazmettirici, yatıştırıcı, göğüs yumuşatıcı, safra ve idrar söktürücü gibi etkiler nedeni ile bütün dünyada olduğu gibi, Türkiye’de de kullanılan şifalı bitkileri tanıtmaktır. | | | | | | | Dersin Öğrenme Çıktıları | 1. Bitkisel tedaviyle ilgili temel kavramlarını tanımlar 2. Bitkisel drogları betimler. Bitkilerdeki etken maddeleri ve bunların sınıflandırılmasını tartışır 3. Şifalı bitkilerin yetiştirilmesini ve bunların ekonomik durumlarını değerlendirir 4. Şifalı bitkilerin kullanımlarında dikkat edilmesi gereken noktaları tartışır 5. Toksik bitkilerin türlerini ve bunların özelliklerini belirler | | | | | | | Dersin İçeriği | Bitkisel droglar, fitoterapi, hastalıklarda kullanılan şifalı bitkiler, toksik bitkilerin ürünleri | | | | | | | **Haftalar** | **Konular** | | | | | | | 1 | Bitkilerin yararları | | | | | | | 2 | Bitkilerin tarihsel süreçte kullanımı | | | | | | | 3 | Bitkilerin etken maddeleri ve bunların kullanımı | | | | | | | 4 | Bitkilerin etken maddeleri ve bunların kullanımı | | | | | | | 5 | Şifalı bitkilerin yetiştirilmesi | | | | | | | 6 | Şifalı bitkilerin yetiştirilmesi | | | | | | | 7 | Bitkisel drogların ekstraksiyonlarında uygulanacak olan metotlar | | | | | | | 8 | Şifalı bitkilerin kullanımlarında dikkat edilmesi gereken noktalar | | | | | | | 9 | Şifalı bitkilerin kullanımlarında dikkat edilmesi gereken noktalar | | | | | | | 10 | Fitoterapide kullanılacak olan bitkiler | | | | | | | 11 | Fitoterapide kullanılacak olan bitkiler | | | | | | | 12 | Toksik bitkiler ve bunların özellikleri | | | | | | | 13 | Dünyada ve ülkemizde kullanılan şifalı bitkiler | | | | | | | 14 | Dünyada ve ülkemizde kullanılan şifalı bitkiler | | | | | |  |  | | --- | | **Genel Yeterlilikler** | | Bitkisel drogları tanımlayarak, bitkilerdeki etken maddeleri ve bunların sınıflandırılmasını tartışabilir. Şifalı bitkilerin yetiştirilmesini ve bunların ekonomik durumlarını değerlendirebilir. | | **Kaynaklar** | | BAYDAR, H., (2013) Geçmişten Günümüze Tıbbi ve Aromatik Bitkiler, Harman Time 7: 34-44.  Aslan, N., Baydar, H., Kızıl, S., Karık, Ü., Şekeroğlu, N., Gümüşçü, A. 2015. Tıbbi ve Aromatik Bitkiler Üretiminde Değişimler ve Yeni Arayışlar. VII. Türkiye Ziraat Mühendisliği Teknik Kong. S:483-507.  YÜCEL, E., (2010) Tıbbi ve Aromatik Bitkilerin Yetiştiriciliği, Anadolu Üniversitesi Yayını, No.: 2101. | | **Değerlendirme Sistemi** | | Dönem başında ders izlence formunda ilan edilir. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **PROGRAM ÖĞRENME ÇIKTILARI İLE**  **DERS ÖĞRENİM ÇIKTILARI İLİŞKİSİ TABLOSU** | | | | | | | | | | | | | | | | | | |  | **PÇ1** | | **PÇ2** | **PÇ3** | | **PÇ4** | **PÇ5** | **PÇ6** | | **PÇ7** | **PÇ8** | **PÇ9** | **PÇ10** | | **PÇ11** | **PÇ12** | | | **ÖÇ1** | 5 | | 2 | 3 | |  | 3 | 2 | | 1 | 2 |  |  | | 5 |  | | | **ÖÇ2** | 5 | | 2 | 3 | |  | 3 | 2 | | 1 | 2 |  |  | | 5 |  | | | **ÖÇ3** | 5 | | 2 | 3 | |  | 3 | 2 | | 1 | 2 |  |  | | 5 |  | | | **ÖÇ4** | 5 | | 2 | 3 | |  | 3 | 2 | | 1 | 2 |  |  | | 5 |  | | | **ÖÇ5** | 5 | | 2 | 3 | |  | 3 | 2 | | 1 | 2 |  |  | | 5 |  | | | **ÖÇ: Öğrenme Çıktıları PÇ: Program Çıktıları** | | | | | | | | | | | | | | | | | | | **Katkı**  **Düzeyi** | | **1 Çok Düşük** | | | **2 Düşük** | | | | **3 Orta** | | **4 Yüksek** | | | **5 Çok Yüksek** | | |  |   Program Çıktıları ve İlgili Dersin İlişkisi   |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Ders** | **PÇ1** | **PÇ2** | **PÇ3** | **PÇ4** | **PÇ5** | **PÇ6** | **PÇ7** | **PÇ8** | **PÇ9** | **PÇ10** | **PÇ11** | **PÇ12** | | Şifalı Bitkiler | 5 | 2 | 3 |  | 3 | 2 | 1 | 2 |  |  | 5 |  | |

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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Dersin Adı** | | **Kodu** | **Yarıyıl** | **T+U** | **Kredi** | **AKTS** | | Tarımsal Ekoloji | |  | I | 2+0 | 2 | 4 | | Ön koşul Dersler |  | | | | | | | Dersin Dili | Türkçe | | | | | | | Dersin Türü | Zorunlu | | | | | | | Dersin Koordinatörü |  | | | | | | | Dersi Veren | Dr. Öğr. Üyesi Fatma BAŞDEMİR | | | | | | | Dersin Yardımcıları |  | | | | | | | Dersin Amacı | Bu dersin amacı, canlı varlıkların, özelliklede insanın çevre ile olan münasebetlerini ilgilendiren doğal ekolojik sistemin tanıtmak, ekolojinin tarımsal faaliyetler üzerine etkisini anlatarak, bu konuda bilgi kazandırmaktır. | | | | | | | Dersin Öğrenme Çıktıları | Bu dersin sonunda öğrenci;   1. Ekolojik tanımları kavrama ve ekolojik faktörler arasındaki ilişkileri kurma yeteneğini geliştirebilir, 2. Tarımsal faktörler ve ekolojik faktörler arasında ilişki kurabilir, 3. Biyotik ve abiyotik çevresel faktörleri değerlendirip yorumlayabilir, 4. Tarımsal üretimde ekolojik faktörlerden kaynaklanan sorunları kavrayıp, çözüm üretebilir. | | | | | | | Dersin İçeriği | Ekoloji kavramı, ekosistemler, ekosistemlerde enerji akımı, Ekosistemlerde üretim ve tüketim, madde döngüleri ve önemi, ışık, sıcaklık, yağış, rüzgar, yangın, toprak faktörlerinin tarımsal faaliyetler üzerine etkileri | | | | | | | **Haftalar** | **Konular** | | | | | | | 1 | Doğal Kaynaklar ve Sınıflandırılması | | | | | | | 2 | Temel Ekolojik Prensipler Ve Kavramlar | | | | | | | 3 | Ekosistem kavram ve prensipleri | | | | | | | 4 | Madde döngüsü ve kaynaklarının çevreye etkisi, su ve Azot döngüsü | | | | | | | 5 | Karbon maddesi, döngüsü, kaynakları ve çevreye etkisi | | | | | | | 6 | Fosfor maddesi, döngüsü ve çevreye etkisi, Biyolojik birikim ve sağlığımıza etkisi | | | | | | | 7 | Ekosistemlerin işlevleri | | | | | | | 8 | Ekolojik Sistemlerde Enerji ile İlgili Prensip ve Kavramlar | | | | | | | 9 | Işık faktörünün tarımsal faaliyetler üzerine etkileri | | | | | | | 10 | Işık faktörünün tarımsal faaliyetler üzerine etkileri | | | | | | | 11 | Sıcaklık faktörünün tarımsal faaliyetler üzerine etkileri | | | | | | | 12 | Yağışların bitkiler ve tarımsal faaliyetlere etkileri | | | | | | | 13 | Rüzgar faktörünün bitkiler, toprak ve tarımsal faaliyetler üzerine etkileri | | | | | | | 14 | Toprak, yangın ve biyotik faktörlerin bitkiler, toprak ve tarımsal faaliyetler üzerine etkileri | | | | | |  |  | | --- | | **Genel Yeterlilikler** | | 1-Doğal ve tarım ekosistemini tanır.  2-Tarımda yetiştiriciliği etkileyen çevresel faktörleri öğrenir.  3- Çevresel faktörlerin bitkisel üretim üzerine etkileri konusunda bilgi sahibi olur. | | **Kaynaklar** | | Biçer, T. (2017). Tarımsal Ekoloji Ders Notu. Dicle Üniversitesi Ziraat Fakültesi Tarla Bitkileri Bölümü. | | **Değerlendirme Sistemi** | | Dönem başında ders izlence formunda ilan edilir. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **PROGRAM ÖĞRENME ÇIKTILARI İLE**  **DERS ÖĞRENİM ÇIKTILARI İLİŞKİSİ TABLOSU** | | | | | | | | | | | | | | | | | | |  | **PÇ1** | | **PÇ2** | **PÇ3** | | **PÇ4** | **PÇ5** | **PÇ6** | | **PÇ7** | **PÇ8** | | **PÇ9** | **PÇ10** | **PÇ11** | | **PÇ12** | | **ÖÇ1** | 5 | |  |  | |  |  |  | |  |  | | 4 |  | 5 | |  | | **ÖÇ2** | 5 | |  |  | |  |  |  | |  |  | | 4 |  | 5 | |  | | **ÖÇ3** | 5 | |  |  | |  |  |  | |  |  | | 4 |  | 5 | |  | | **ÖÇ4** | 5 | |  |  | |  |  |  | |  |  | | 4 |  | 5 | |  | | **ÖÇ: Öğrenme Çıktıları PÇ: Program Çıktıları** | | | | | | | | | | | | | | | | | | | **Katkı**  **Düzeyi** | | **1 Çok Düşük** | | | **2 Düşük** | | | | **3 Orta** | | | **4 Yüksek** | |  | | **5 Çok Yüksek** | |   Program Çıktıları ve İlgili Dersin İlişkisi   |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Ders** | **PÇ1** | **PÇ2** | **PÇ3** | **PÇ4** | **PÇ5** | **PÇ6** | **PÇ7** | **PÇ8** | **PÇ9** | **PÇ10** | **PÇ11** | **PÇ12** | | Tarımsal Ekoloji | 5 |  |  |  |  |  |  |  | 4 |  | 5 |  | |

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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Dersin Adı** | | **Kodu** | **Yarıyıl** | **T+U** | **Kredi** | **AKTS** | | Tarımsal Yayım ve Haberleşme | |  | I | 2+0 | 2 | 2 | | Ön koşul Dersler |  | | | | | | | Dersin Dili | Türkçe | | | | | | | Dersin Türü | Seçmeli | | | | | | | Dersin Koordinatörü |  | | | | | | | Dersi Veren | Öğr. Gör. Şeyhmus Rüzgar | | | | | | | Dersin Yardımcıları |  | | | | | | | Dersin Amacı | Çiftçilerin üretim sorunlarının belirlenmesi, alternatif çözümler sunulması ve çiftçilerde belirlenen yönde davranış değişikliği sağlayabilecek düzeyde bilgi sahibi olmalarını sağlamaktır. Öğrencilerin bu kapsamda; yayım eğitiminin özellikleri, tarımsal yayımda program planlama süreci, iletişim süreci, yayım yöntemleri, benimseme ve yayılma süreci konularında bilgi sahibi olmaları hedeflenmektedir. | | | | | | | Dersin Öğrenme Çıktıları | Bu dersin sonunda öğrenci;  1-Kırsal alanda yeniliklerin yayılması ve benimsenmesi süreçleri hakkında bilgi sahibi olur  2-Yenilik ve yenilikçilik hakkında bilgi sahibidir.  3-Yayım Yöntemleri ve uygun yöntemin seçimi ölçütleri hakkında analiz ve yorum yapar. | | | | | | | Dersin İçeriği | Tarımsal yayımın tanımı ve özellikleri, Benimseme süreci, yenilikçilik, tarımsal yayımda program planlama, yayım yöntemleri | | | | | | | **Haftalar** | **Konular** | | | | | | | 1 | Tarımsal Yayımın Tarihi, Gelişimi ve Geleceği | | | | | | | 2 | Tarımsal Yayımın Tanımı, Kapsamı ve Önemi | | | | | | | 3 | Tarımsal Yayımın İlkeleri, Yayım Elemanlarının Görevleri | | | | | | | 4 | Türkiye’nin Tarımsal Yayım Sistemi Kuruluşlar ve Yayım Çalışmaları | | | | | | | 5 | Türkiye’nin Tarımsal Yayım Sistemi ve Türkiye’de Tarımsal Yayımın Belli Başlı Problemleri | | | | | | | 6 | Tarımsal Yayımın Amaçları ve Yayım Yaklaşımları | | | | | | | 7 | Yayım Programlarının Özellikleri | | | | | | | 8 | Yayım Programının Aşamaları | | | | | | | 9 | Yayım Metotları, Yayımda Sesli-Görüntülü Haberleşme Araçları | | | | | | | 10 | Haberleşmenin Tanımı, Haberleşmede Başarıyı Etkileyen Faktörler | | | | | | | 11 | Tarımsal Yeniliklerin Benimsenmesi ve Yayılması Konusundaki Çalışmaların Önemi | | | | | | | 12 | Tarımsal Haberleşmede Benimseme Grupları ve Yeniliklerin Yayılma Eğrisi | | | | | | | 13 | Öğrenciler ile Karşılıklı Tarımsal Yayım ve Haberleşme Örnek Sunumların Yapılması | | | | | | | 14 | Ülkemizde Tarım ve Yayım Haberleşme ile ilgili Örneklerin İncelenmesi | | | | | |  |  | | --- | | **Genel Yeterlilikler** | | Tarımsal İşletmecilikte Ofis yazılımlarının kullanımını teknik bilgiler çerçevesinde optimum seviyede kullanabilmek. | | **Kaynaklar** |  |  | | --- | | CEYLAN, İ, C. (2005). Yayımcı Rehberi-Yayım Yöntemleri, Tarım ve Köyişleri Bakanlığı Yayın Dairesi, Yayın No: 2005/1. Ankara.  ÇELİK. H, CEYLAN. C, OLHAN. E, (1994). "Çiftçilik Sistemleri Araştırması ve Türkiye'deki Uygulamaları", Türkiye l. Tarım Ekonomisi Kongresi, Ege Üniversitesi Basımevi, Cilt 2. s.359–369, İzmir.  KÖKSAL, Ö, CEYLAN, C, 2003, “Tarımsal Yayım ve Araştırma İlişkisi”, Tarım Bilimleri Dergisi, Yüzüncü Yıl Üniversitesi Ziraat Fakültesi, Cilt: 13, Sayı: 2, Temmuz 2003,133–143, Van.  Cinemre Hüseyin Avni, Demiryürek Kürşat, ‘Tarımsal Yayım Ve Haberleşme’ Ondokuz Mayıs Üniversitesi Ziraat Fakültesi, 2005. | | **Değerlendirme Sistemi** | | **Dönem başında ders izlence formunda ilan edilir.** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **PROGRAM ÖĞRENME ÇIKTILARI İLE**  **DERS ÖĞRENİM ÇIKTILARI İLİŞKİSİ TABLOSU** | | | | | | | | | | | | | | | | | | |  | **PÇ1** | | **PÇ2** | **PÇ3** | | **PÇ4** | **PÇ5** | **PÇ6** | | **PÇ7** | **PÇ8** | | **PÇ9** | **PÇ10** | | **PÇ11** | **PÇ12** | | **ÖÇ1** | 3 | |  |  | |  |  |  | |  |  | | 5 |  | | 3 |  | | **ÖÇ2** | 3 | |  |  | |  |  |  | |  |  | | 5 |  | | 3 |  | | **ÖÇ3** | 3 | |  |  | |  |  |  | |  |  | | 5 |  | | 3 |  | | **ÖÇ: Öğrenme Çıktıları PÇ: Program Çıktıları** | | | | | | | | | | | | | | | | | | | **Katkı**  **Düzeyi** | | **1 Çok Düşük** | | | **2 Düşük** | | | | **3 Orta** | | | **4 Yüksek** | | | **5 Çok Yüksek** | | |   Program Çıktıları ve İlgili Dersin İlişkisi   |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Ders** | **PÇ1** | **PÇ2** | **PÇ3** | **PÇ4** | **PÇ5** | **PÇ6** | **PÇ7** | **PÇ8** | **PÇ9** | **PÇ10** | **PÇ11** | **PÇ12** | | Tarımsal Yayım ve Haberleşme | 3 |  |  |  |  |  |  |  | 5 |  | 3 |  | |

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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Dersin Adı** | | **Kodu** | **Yarıyıl** | **T+U** | **Kredi** | **AKTS** | | Tarla Bitkileri Tarımı | |  | I | 2+2 | 3 | 3 | | Ön koşul Dersler |  | | | | | | | Dersin Dili | Türkçe | | | | | | | Dersin Türü | Zorunlu | | | | | | | Dersin Koordinatörü |  | | | | | | | Dersi Veren | Dr. Öğr. Üyesi Abdulkadir TANRIKULU | | | | | | | Dersin Yardımcıları |  | | | | | | | Dersin Amacı | Bu derste; tarla bitkileri temel kavramları, tarla bitkilerinin ayrıntılı olarak sınıflandırılıp incelenmesi konularına ve bitki gelişimine yönelik becerilerin kazandırılması amaçlanmaktadır. | | | | | | | Dersin Öğrenme Çıktıları | **1.** Ziraat Mühendisliği mesleki öğretisinin temel dayanağı olan bitkisel üretimde, kullanılan agro ekolojinin bileşenlerini (ekosistem, besin döngüsü) tanımak  **2.** Tarla bitkilerinin botaniği, tarla bitkilerinin sınıflandırılmasını, büyüme, gelişme ve verim kanunlarını öğrenmek  **3.** Sürdürülebilir tarımda tarla tarımının nasıl uygulanması gerektiğini, doğal ekosistemler ve agro ekosistemler arasındaki farklılığı ortaya koymak  **4.** Çevre faktörlerinin (klimatik, edafik faktörler, biyolojik ve topoğrafik faktörler) tarla tarımındaki etkisini öğretmek  **5.** Kültür bitkilerinin yetiştiriciliğinde; en uygun toprak işleme, ekim nöbeti, tohumluk, ekim, gübreleme, bakım, hasat ve harman, standardizasyon ve depolama yöntemlerini öğretmek | | | | | | | Dersin İçeriği | Endüstri bitkileri, tahıllar ve Baklagiller ile Çayır-Mera Yem bitkilerinin ülke tarımındaki yeri ve önemi ve genel yetiştirme ilkeleri konularını içermektedir. | | | | | | | **Haftalar** | **Konular** | | | | | | | 1 | Tarım Temel Kavramları | | | | | | | 2 | Tarım Temel Kavramları | | | | | | | 3 | Ekosistem ile Tarım arasındaki ilişki | | | | | | | 4 | Tarla Tarımı Bileşenleri | | | | | | | 5 | Tarla Tarımı Bileşenleri | | | | | | | 6 | Sürdürülebilir Tarım | | | | | | | 7 | Tarla Bitkilerinin Sınıflandırılması | | | | | | | 8 | Tarla Bitkilerinin Sınıflandırılması | | | | | | | 9 | Tarla Bitkilerinin Sınıflandırılması | | | | | | | 10 | Çevre faktörlerinin (klimatik, edafik faktörler, biyolojik ve topoğrafik faktörler) tarla tarımındaki etkisi | | | | | | | 11 | Kültür bitkilerinin yetiştiriciliğinde en uygun toprak işleme, standardizasyon ve depolama yöntemlerini öğretmek | | | | | | | 12 | Ekim Nöbeti, Tohumluk, Ekim, Gübreleme | | | | | | | 13 | Bakım, Hasat ve Harman | | | | | | | 14 | Genel Tekrar | | | | | |  |  | | --- | | **Genel Yeterlilikler** | | Tarla bitkilerinin tanıtımı, ekonomiye katkısı, insan ve hayvan beslemedeki önemi, yetiştirme teknikleri ve sorunlarını teşhis etme ve çözüm bulma yetisine sahiptir. | | **Kaynaklar** | | Baydar, H., (2009). *Tarla Bitkilerine Giriş.* Süleyman Demirel Üniversitesi Ziraat Fakültesi Tarla Bitkileri. | | **Değerlendirme Sistemi** | | **Dönem başında ders izlence formunda ilan edilir.** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **PROGRAM ÖĞRENME ÇIKTILARI İLE**  **DERS ÖĞRENİM ÇIKTILARI İLİŞKİSİ TABLOSU** | | | | | | | | | | | | | | | | |  | **PÇ1** | | **PÇ2** | **PÇ3** | | **PÇ4** | **PÇ5** | **PÇ6** | | **PÇ7** | **PÇ8** | **PÇ9** | **PÇ10** | **PÇ11** | **PÇ12** | | **ÖÇ1** | 5 | | 2 |  | |  | 3 | 4 | |  | 3 | 3 | 3 | 4 |  | | **ÖÇ2** | 5 | | 2 |  | |  | 3 | 4 | |  | 3 | 3 | 3 | 4 |  | | **ÖÇ3** | 5 | | 2 |  | |  | 3 | 4 | |  | 3 | 3 | 3 | 4 |  | | **ÖÇ4** | 5 | | 2 |  | |  | 3 | 4 | |  | 3 | 3 | 3 | 4 |  | | **ÖÇ5** | 5 | | 2 |  | |  | 3 | 4 | |  | 3 | 3 | 3 | 4 |  | | **ÖÇ: Öğrenme Çıktıları PÇ: Program Çıktıları** | | | | | | | | | | | | | | | | | **Katkı**  **Düzeyi** | | **1 Çok Düşük** | | | **2 Düşük** | | | | **3 Orta** | | **4 Yüksek** | | **5 Çok Yüksek** | |  |   Program Çıktıları ve İlgili Dersin İlişkisi   |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Ders** | **PÇ1** | **PÇ2** | **PÇ3** | **PÇ4** | **PÇ5** | **PÇ6** | **PÇ7** | **PÇ8** | **PÇ9** | **PÇ10** | **PÇ11** | **PÇ12** | | Tarla BitkileriTarımı | 5 | 2 |  |  | 3 | 4 |  | 3 | 3 | 3 | 4 |  | |

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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Dersin Adı** | | **Kodu** | **Yarıyıl** | **T+U** | **Kredi** | **AKTS** | | Tohum Bilimi ve Teknolojisi | |  | I | 2+0 | 2 | 2 | | Ön koşul Dersler |  | | | | | | | Dersin Dili | Türkçe | | | | | | | Dersin Türü | Zorunlu | | | | | | | Dersin Koordinatörü |  | | | | | | | Dersi Veren | Dr. Öğr. Üyesi Fatma BAŞDEMİR | | | | | | | Dersin Yardımcıları |  | | | | | | | Dersin Amacı | Bu derste, tarla bitkileri bölümü lisans öğrencilerine, tohum oluşumu, yapısı, kimyası, fizyolojisi ve tohum işleme teknolojisi hakkında bilgi verilecektir | | | | | | | Dersin Öğrenme Çıktıları | 1. Tohumun yaşamın kaynağı olduğunu öğrenir.  2. Tohum canlılığı, güçlülüğü, su çekmesi, safiyeti, biyolojik değeri hakkında bilgi sahibi olur.  3. Tohumluk üretme koşullarını kavrar.  4. Temizleme, kurutma, işleme, paketleme, torbalama konularında bilgi sahibi olur.  5. Bir tohumculuk tesisinde rahatlıkla çalışabilecek yetiye ulaşır. | | | | | | | Dersin İçeriği | Bu derste; tohum, tohumluk, tohumculuk kavramları ve önemi, bitkilerde tohum oluşumu, tohumun kimyasal yapısı, tohumun morfolojisi, tohum fizyolojisi, tohumda canlılık ve canlılık testleri, çimlenme kontrolleri, tohumluk üretimi, tohumluğun işlenmesi, depolama ve tohumluğun arzı konuları işlenecektir | | | | | | | **Haftalar** | **Konular** | | | | | | | 1 | Tohum (Kullanım Yerleri, Büyüklüğü Şekli, Doğada Yayılma Yolları.) Tohumluk ve Tohumculuk Nedir? | | | | | | | 2 | Microsporogenesis ve Microgamaetogenesis - Macrosporogenesis ve Macrogamaetogenesis - Tozlanma ve döllenme – Embriyo ve endospermin gelişimi | | | | | | | 3 | Tohum Gelişimi - Tohumun kimyasal yapısı ve tohumda madde birikimi | | | | | | | 4 | Buğdaygillerde, Baklagillerde ve Yağ Bitkilerinde Tohum | | | | | | | 5 | Tohum Dormansisi, - Dormansi Tipleri - Dormansiyi Etkileyen Faktörler. - Hasat Sonrası Olgunlaşma, Fizyolojik Cüceleşme ve Tohumda İç Ahenk | | | | | | | 6 | Tohumun çimlenmesi ve çimlenmeyi etkileyen faktörler – Tohumun çimlenmesi ve çimlenme tipleri - Tohum çimlenmesinin başlıca evreleri | | | | | | | 7 | Tohumun çimlenmesi ve çimlenmeyi etkileyen faktörler – Tohumun çimlenmesi ve çimlenme tipleri - Tohum çimlenmesinin başlıca evreleri | | | | | | | 8 | Tohumun ömrü ve bozulması - Tohumda bozulmanın nedenleri ve belirtileri - Tohum canlılığı ve canlılık testleri | | | | | | | 9 | Çimlenme kontrolleri ve tarımsal üretim açısından önemi - Çimlenmenin değerlendirilmesi, normal ve anormal çimler ve nedenleri - Dormansinin kırılmasında kullanılan yöntemler | | | | | | | 10 | Tohumluk üretiminde dikkat edilecek hususlar | | | | | | | 11 | Tohumların kurutulması - Kurutma sistemleri – Kurutma tohum ilişkisi | | | | | | | 12 | Tohumların ayrılması, temizlenmesi - Tohumların derecelendirilmesi - Tohumların ilaçlanması - Tohumların paketlenmesi - Tohum işleme tesislerinin düzenlenmesi | | | | | | | 13 | Depolamada tohum canlılığını etkileyen faktörler - Tohum ilaçlanması ve depolama ilişkisi - Depolama yöntemleri | | | | | | | 14 | Tohumluk arzı nedir? - Ülkemiz ve bölgemizde tohumluk arzı ve talebinin değerlendirilmesi | | | | | |  |  | | --- | | **Genel Yeterlilikler** | | Tohum bilimi, tescil tohumluk sertifikasyon işlemleri, sürdürülebilir tarım gibi konularda bilgi sahibi olur. | | **Kaynaklar** | | Sağsöz, S. (1995). Tohumluk Bilimi Erzurum: Atatürk Ü. Yayınları.  Şehirali, S.(2002). Tohumluk ve Teknolojisi. Edirne: Trakya Ü. Ziraat Fak. Yay. | | **Değerlendirme Sistemi** | | Dönem başında ders izlence formunda ilan edilir. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **PROGRAM ÖĞRENME ÇIKTILARI İLE**  **DERS ÖĞRENİM ÇIKTILARI İLİŞKİSİ TABLOSU** | | | | | | | | | | | | | | | | | | |  | **PÇ1** | | **PÇ2** | **PÇ3** | | **PÇ4** | **PÇ5** | **PÇ6** | | **PÇ7** | **PÇ8** | | **PÇ9** | **PÇ10** | **PÇ11** | | **PÇ12** | | **ÖÇ1** | 5 | |  | 4 | | 4 | 3 | 3 | | 3 | 5 | | 4 | 5 |  | |  | | **ÖÇ2** | 5 | |  | 4 | | 4 | 3 | 3 | | 3 | 5 | | 4 | 5 |  | |  | | **ÖÇ3** | 5 | |  | 4 | | 4 | 3 | 3 | | 3 | 5 | | 4 | 5 |  | |  | | **ÖÇ4** | 5 | |  | 4 | | 4 | 3 | 3 | | 3 | 5 | | 4 | 5 |  | |  | | **ÖÇ5** | 5 | |  | 4 | | 4 | 3 | 3 | | 3 | 5 | | 4 | 5 |  | |  | | **ÖÇ: Öğrenme Çıktıları PÇ: Program Çıktıları** | | | | | | | | | | | | | | | | | | | **Katkı**  **Düzeyi** | | **1 Çok Düşük** | | | **2 Düşük** | | | | **3 Orta** | | | **4 Yüksek** | |  | | **5 Çok Yüksek** | |   Program Çıktıları ve İlgili Dersin İlişkisi   |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Ders** | **PÇ1** | **PÇ2** | **PÇ3** | **PÇ4** | **PÇ5** | **PÇ6** | **PÇ7** | **PÇ8** | **PÇ9** | **PÇ10** | **PÇ11** | **PÇ12** | | Tohum Bilimi ve Teknolojisi | 5 |  | 4 | 4 | 3 | 3 | 3 | 5 | 4 | 5 |  |  | |

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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Dersin Adı** | | **Kodu** | **Yarıyıl** | **T+U** | **Kredi** | **AKTS** | | Toprak Bilgisi | |  | I | 2+2 | 3 | 4 | | Ön koşul Dersler |  | | | | | | | Dersin Dili | Türkçe | | | | | | | Dersin Türü | Zorunlu | | | | | | | Dersin Koordinatörü |  | | | | | | | Dersi Veren |  | | | | | | | Dersin Yardımcıları |  | | | | | | | Dersin Amacı | Bu derste;  Toprağın fiziksel, kimyasal ve biyolojik özellikleri arasında ilişkilerin kurabilmesi, toprağın kalitesini artırabilmek için hangi tarımsal uygulamaların yapılması gerektiğinin toprak koşullarına göre belirleyebilmektir. | | | | | | | Dersin Öğrenme Çıktıları | **1** Toprak bilimi ve toprağın yapısı konularını bilir  **2** Toprak ve çevre ilişkileri hakkında yorum yapar.  **3** Bitki yetiştirme ve gübreleme hakkında yöntemleri uygular. | | | | | | | Dersin İçeriği | Toprak elementleri ve mineralleri, Toprağın oluşumu, Toprağın morfolojisi. Bitkilerde bitki besin maddesi noksanlık ve fazlalık belirtilerinin tanıtılması konularını içerir. | | | | | | | **Haftalar** | **Konular** | | | | | | | 1 | Toprak bilimine giriş ve toprağın tanımı; toprak elementleri ve mineralleri | | | | | | | 2 | Toprağı oluşturan kayalar; toprak oluşumu | | | | | | | 3 | Toprak morfolojisi ve horizonlar; toprağın fiziksel özellikleri | | | | | | | 4 | Toprağın kimyasal özellikleri; toprak organizmaları | | | | | | | 5 | Toprağın organik maddesi; toprak erozyonu ve korunumu | | | | | | | 6 | Toprakların sınıflaması ve toprak kullanımı | | | | | | | 7 | Toprak ve çevre ilişkisi | | | | | | | 8 | Toprak ve çevre ilişkisi | | | | | | | 9 | Bitki yetiştirme konusunda başvurulabilecek kaynak kitap ve periyodiklerin tanıtılması. | | | | | | | 10 | Bitki yetiştirmede temel ilkelerin öğrenilmesi | | | | | | | 11 | Gübrelemeye etki eden faktörler ve gübreleme yöntemleri damla gübreleme (fertigation) ve yapraktan gübreleme | | | | | | | 12 | Gübre ve gübreleme kavramı, temel ve başa gübreleme, gübrelerin sınıflandırılması, organik ve inorganik gübrelerin tanıtılması | | | | | | | 13 | Bitki besin elementlerinin bitkideki miktarları, bitkiler için mutla gerekli olan elementler ve alınış formları, bahçe ve sera bitkilerinde noksanlık ve fazlalık belirtileri | | | | | | | 14 | Gübreleme programlarını hazırlama ilkeleri, meyve ve sebzelerde gübreleme zamanları | | | | | |  |  | | --- | | **Genel Yeterlilikler** | | Toprak tanıtımı, çevreyle ilişkisi, bitki yetiştirmenin önemi, gübre ve gübreleme kavramı, gübrelemeye etki eden faktörler konularına sahiptir. | | **Kaynaklar** |  |  | | --- | | Kırtok, Y., (1998). Mısır Üretimi ve Kullanımı. Kocaoluk Yayıncılık Sanayi ve Tic. Ltd. Şti, 445 s., İstanbul.  Mert, M., (2007). Pamuk Tarımının Temelleri. TMMOB Ziraat Mühendisleri Odası Teknik Yayınlar Dizisi No: 7, Ankara.  Geçit, H. H., Çiftçi, C.Y., Emeklier, H.Y., İkincikarakaya, S., Adak, M.S., Kolsarıcı, Ö., Ekiz, H., Altınok, S., Sancak, C., Sevimay, C.S., Kendir, H., (2009). Tarla Bitkileri. Ankara Üniversitesi Ziraat Fakültesi Yayınları, Ankara, Yayın No: 1569, Ders Kitabı, 521. | | **Değerlendirme Sistemi** | | **Dönem başında ders izlence formunda ilan edilir.** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **PROGRAM ÖĞRENME ÇIKTILARI İLE**  **DERS ÖĞRENİM ÇIKTILARI İLİŞKİSİ TABLOSU** | | | | | | | | | | | | | | | | | | |  | **PÇ1** | | **PÇ2** | **PÇ3** | | **PÇ4** | **PÇ5** | **PÇ6** | | **PÇ7** | **PÇ8** | | **PÇ9** | **PÇ10** | **PÇ11** | | **PÇ12** | | **ÖÇ1** | 3 | |  |  | |  | 3 | 5 | |  |  | |  |  | 5 | |  | | **ÖÇ2** | 3 | |  |  | |  | 3 | 5 | |  |  | |  |  | 5 | |  | | **ÖÇ3** | 3 | |  |  | |  | 3 | 5 | |  |  | |  |  | 5 | |  | | **ÖÇ: Öğrenme Çıktıları PÇ: Program Çıktıları** | | | | | | | | | | | | | | | | | | | **Katkı**  **Düzeyi** | | **1 Çok Düşük** | | | **2 Düşük** | | | | **3 Orta** | | | **4 Yüksek** | |  | | **5 Çok Yüksek** | |   Program Çıktıları ve İlgili Dersin İlişkisi   |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Ders** | **PÇ1** | **PÇ2** | **PÇ3** | **PÇ4** | **PÇ5** | **PÇ6** | **PÇ7** | **PÇ8** | **PÇ9** | **PÇ10** | **PÇ11** | **PÇ12** | | Toprak Bilgisi | 3 |  |  |  | 3 | 5 |  |  |  |  | 5 |  | |