**ITU**

**DERS KATALOG FORMU**

**(Course Catalogue Form)**

| **Dersin Adı:**  Mühendislikte Proje Yönetimi | **Course Name:**  Project Management inEngineering |
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| **Kodu (Course Code)** | **Yarıyıl (Semester)** | **Kredisi (Local Credits)** | **AKTS Kredisi (ECTS Credits)** | **Ders Uygulaması, Saat/Hafta** | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Ders (Theoretical)** | **Uygulama (Tutorial/Recitation)** | **Laboratuvar (Laboratory)** |
| BLG448E | 8 | 3 | 4 | 3 | - | - |

| **Bölüm/Program**  **(Department/Program)** | Bilgisayar Mühendisliği / Computer Engineering |
| --- | --- |

| **Dersin Türü**  **(Course Type)** | Temel Mühendislik  (Basic Engineering) | **Dersin Dili (Course Language)** | İngilizce  English |
| --- | --- | --- | --- |
| **Ders Zorunluluğu (Course Compulsion)** | | Seçmeli (Elective) | |

| **Dersin Önkoşulları (Course Prerequisites)** | - | | | |
| --- | --- | --- | --- | --- |
| **Dersin Mesleki Bileşene Yüzde Katkısı**  **(Course Category by Content Percentage)** | Temel Bilim  (Basic Science) | Temel Mühendislik (Engineering Science) | Mühendislik Tasarım (Engineering Design) | İnsan ve Toplum Bilim (General Education) |
| - | 100% | - | - |

| **Dersin İçeriği (Course Description)** | Proje planlama, proje zamanlaması ve finansmanını tutturma, zamanlama ve bütçenin gözlemlenmesi ve kontrolü, iş gücü planlama, proje takımını yönetme, zaman yönetimi, bilgisayarlı yönetim sistemleri, doküman ve teknik bilgilerin hazırlanması, iç standartlar |
| --- | --- |
| Planning the project, establishing the project schedule and budget, monitoring and controlling schedules and budgets, manpower planning, managing the project team, time management, computerized management methods, preparing documents and technical specifications, international standarts. |
| **Dersin Amacı (Course Objective)** | 1. Proje yönetimi arkasındaki nedenleri anlamak 2. Modern proje yönetimi metodlarını ve uygulamalarını öğrenmek 3. BT iş hayatındaki zorluklar hakkında önsel bilgi kazanmak |
| 1. Understanding the motives behind project management 2. Learning modern project management mehods and applications 3. Gaining a priori knowledge about the challanges in IT business life |
| **Dersin Öğrenme Çıktıları (Course Learning Outcomes)** | 1. Ekonomik, çevresel, sosyal, politik, etik, sağlık ve güvenlik, üretilebilirlik ve sürdürülebilirlik gibi gerçekçi kısıtlar dahilinde istenilen gereksinimleri karşılayacak biçimde bir sistemi, sistem bileşenini ya da süreci tasarlama becerisi 2. Disiplinlerarası takımlarda çalışma becerisi 3. Mühendislik problemlerini tanıma, formüle etme v e çözme becerisi 4. Verimli iletişim kurma becerisi 5. Mühendislik pratiği için gerekli teknik, beceri ve modern mühendislik araçlarını kullanma becerisi |
| 1. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability 2. An ability to function on multi-disciplinary teams 3. An ability to identify, formulate, and solve engineering problems 4. An ability to communicate effectively 5. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice |

| **Ders Kitabı (Textbook)** | Lecture notes provided by the course instructor |
| --- | --- |
| **Diğer Kaynaklar (Other References)** | - |

| **Ödevler ve Projeler (Homeworks & Projects)** | - |
| --- | --- |
| - |
| **Laboratuvar Uygulamaları (Laboratory Work)** | - |
| - |
| **Bilgisayar Kullanımı (Computer Use)** | - |
| - |
| **Diğer Uygulamalar (Other Activities)** | - |
| - |

| **Başarı Değerlendirme Sistemi**  **(Assessment Criteria)** | **Faaliyetler (Activities)** | **Adedi (Quantity)** | **Değerlendirmedeki Yüzde Katkısı**  **(Effects on Grading by Percentage)** |
| --- | --- | --- | --- |
| **Yıl İçi Sınavları (Midterm Exams)** | 1 | 40% |
| **Kısa Sınavlar (Quizzes)** | - | - |
| **Ödevler (Homework)** | - | - |
| **Projeler (Projects)** | - | - |
| **Dönem Ödevi/Projesi (Term Paper/Project)** | - | - |
| **Laboratuvar Uygulaması (Laboratory Work)** | - | - |
| **Diğer Uygulamalar (Other Activities)** | - | - |
| **Final Sınavı (Final Exam)** | 1 | 60% |

**DERS PLANI**

**(Course Plan)**

| **Hafta** | **Konu** | **Dersin Çıktıları** |
| --- | --- | --- |
| **1** | Giriş | 1 |
| **2** | Proje Kapsamı | 1 |
| **3** | Proje Planlama | 1, 2 |
| **4** | Proje Planlama | 1, 2 |
| **5** | Proje Aktivitelerinin Tanımı | 1, 2, 3 |
| **6** | Kaynak Planlama | 3 |
| **7** | Kaynak Planlama | 3 |
| **8** | Proje Analiz Teknikleri | 3, 5 |
| **9** | Proje Analiz Teknikleri | 3, 5 |
| **10** | Uygulama | 1-5 |
| **11** | Proje Takibi | 4, 5 |
| **12** | Proje Bitirimi | 4, 5 |
| **13** | Proje Değerlendirmesi | 4,5 |
| **14** | Proje Dökümantasyonu | 4 |

| **Week** | **Topic** | **Course Outcome** |
| --- | --- | --- |
| **1** | Introduction | 1 |
| **2** | Project Scope | 1 |
| **3** | Project Planning | 1, 2 |
| **4** | Project Planning | 1, 2 |
| **5** | Description of Project Activities | 1, 2, 3 |
| **6** | Resource Planning | 3 |
| **7** | Resource Planning | 3 |
| **8** | Project Analysis Techniques | 3, 5 |
| **9** | Project Analysis Techniques | 3, 5 |
| **10** | Recitation | 1-5 |
| **11** | Project Tracking | 4, 5 |
| **12** | Project Termination | 4, 5 |
| **13** | Project Evaluation | 4,5 |
| **14** | Project Documentation | 4 |

**DERSİN BİLGİSAYAR MÜHENDİSLİĞİ ÖĞRENCİ ÇIKTILARI İLE İLİŞKİSİ**

**Relationship between the Course and Student Outcomes**

**(1: “Little”, 2: “Partial”, 3: “Full”, Leave blank if your answer is “None”)**

| **Computer Engineering Department Program Outcomes and Performance Criteria** | | **Level of Contribution** | | |
| --- | --- | --- | --- | --- |
| **1** | **2** | **3** |
| 1 | an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics |  |  |  |
| 2 | an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors |  |  | X |
| 3 | an ability to communicate effectively with a range of audiences |  |  |  |
| 4 | an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts |  |  | X |
| 5 | an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives |  |  |  |
| 6 | an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions |  |  | X |
| 7 | an ability to acquire and apply new knowledge as needed, using appropriate learning strategies |  |  |  |

**HAZIRLANMA BİLGİSİ**

**Edition Information**

| **Prepared by** | **Date** | **Signature** |
| --- | --- | --- |
| **Dr.Tolga Ovatman** | **03.12.2020** |  |
| **Approved by** | **Date** | **Signature** |
| **Dr.Tolga Ovatman** | **03.12.2020** |  |