

### COURSE RECORD

|                   |   |
|-------------------|---|
| Code              | PREPD204  |
| Name              | English for Engineering   |
| Hours per week    | 2   |
| Credit Value      | 2   |
| ECTS              | 3   |
| Level/Year        | English Prep.   |
| Type              | Compulsory (Dep.)   |
| Prerequisites     | PREPR100  |
| Description       | This course is compulsory for students of Electrical and Electronics, Industrial, Civil, and Mechanical Engineering, as well as of Materials Sciences. Students will learn, by remembering basic physics and chemistry they learned at school, to understand and make descriptions of physics and chemistry concepts in English. They will also learn words which are more generally useful in descriptions of science and technology.  |
| Objectives        | <ul style="list-style-type: none"> <li>- Helping students to read short, authentic, texts in the fields of physical science, and technology;</li> <li>- Teaching discipline-specific vocabulary, and in doing so accustom students to the principle that the same word in English can have both an everyday sense and a very different discipline specific meaning;</li> <li>- Expanding students' general technical vocabulary;</li> <li>- Showing students how, within their departmental field specific field, to articulate basic ideas and facts with which they are already familiar in their first language, thus boosting both their English expression range and confidence,</li> <li>- Teaching students strategies for further, autonomous, English learning.</li> </ul> |
| Learning Outcomes | <p>By the end of English for Engineering students will be able to:</p> <p>LO1. understand simple subject-specific texts;</p> <p>LO2. interpret a larger general vocabulary;</p> <p>LO3. comprehend a larger discipline-specific vocabulary;</p> <p>LO4. make simple spoken sentences about topics from the fields of physical science, and technology;</p> <p>LO5. understand the importance of studying English autonomously.</p>  |

### CONTRIBUTION TO PROGRAMME OUTCOMES\*

|     | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| LO1 | 5   | 5   | 1   | 4   | 3   | 2   | 2   | 3   | 3   | 0    | 5    | 4    |
| LO2 | 5   | 5   | 0   | 4   | 4   | 4   | 4   | 5   | 4   | 3    | 5    | 4    |
| LO3 | 5   | 5   | 1   | 4   | 4   | 4   | 4   | 5   | 4   | 2    | 5    | 4    |
| LO4 | 3   | 2   | 3   | 3   | 0   | 2   | 1   | 5   | 4   | 5    | 4    | 2    |
| LO5 | 5   | 5   | 0   | 4   | 4   | 4   | 4   | 5   | 4   | 4    | 5    | 5    |

\* Contribution Level: 0: None, 1: Very Low, 2: Low, 3: Medium, 4: High, 5: Very High

### CONTRIBUTION TO INSTITUTIONAL LEARNING OUTCOMES

|      | ILO1 | ILO2 | ILO3 | ILO4 | ILO5 | ILO6 | ILO7 |
|------|------|------|------|------|------|------|------|
| LO1. | 5    | 2    | 2    | 2    | 4    | 5    | 0    |
| LO2. | 3    | 3    | 2    | 1    | 3    | 5    | 0    |
| LO3. | 5    | 4    | 2    | 2    | 4    | 5    | 0    |
| LO4. | 3    | 2    | 2    | 2    | 3    | 5    | 0    |
| LO5. | 2    | 2    | 2    | 2    | 2    | 5    | 0    |

\* Contribution Level: 0: None, 1: Very Low, 2: Low, 3: Medium, 4: High, 5: Very High

**COURSE CONTENT DETAILS**

| <b>Topics</b>  | <b>Outcomes</b> |
|--|-----------------|
| Working scientifically                               | LO1, LO2, LO3   |
| Design cycles / Technical Vocabulary                 | LO1, LO2, LO5   |
| Advanced numbers (imaginary/complex/scientific form) | LO5             |
| Force and Motion / Matter / Energy, work and power   | LO1, LO2, LO4   |
| Heat and Physical States / Electricity / Materials   | LO2, LO3, LO4   |
| Processes  | LO1, LO2, LO5   |

**DERS BİLGİLERİ**

|                |   |
|----------------|---|
| Kodu           | PREPD204  |
| İsmi           | English for Engineering   |
| Haftalık Saati | 2   |
| Kredi          | 2   |
| AKTS           | 3   |
| Seviye/Yıl     | İngilizce Hazırlık  |
| Dersin Dili    | İngilizce   |
| Tip            | Zorunlu (Bölüm)   |
| Ön Şart        | PREPR100  |
| İçerik         | English for Engineering, Elektrik-Elektronik, Endüstri, İnşaat ve Makine Mühendisliği ile Malzeme Bilimleri öğrencileri için zorunludur. Öğrenciler, okulda öğrendikleri temel fizik ve kimyayı hatırlayarak, fizik ve kimya kavramlarını İngilizce olarak anlamayı ve tanımlamayı öğreneceklerdir. Ayrıca, genellikle daha çok bilim ve teknoloji tanımlarında kullanılan kelimeleri de öğreneceklerdir. |