

**Content**

| Course Code | Course Name | Semester | Theory | Practice | Lab | Credit | ECTS |
|-------------|-------------|----------|--------|----------|-----|--------|------|
| GEM147      | Material    | 1        | 3      | 0        | 0   | 3      | 3    |

|                        |  |
|------------------------|--|
| Prerequisites          |  |
| Admission Requirements |  |

|                         |                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Language of Instruction | Turkish                                                                                                                                |
| Course Type             | Compulsory                                                                                                                             |
| Course Level            | Associate Degree                                                                                                                       |
| Objective               | To teach the students manufacturing and repairing materials, basics of metallurgy, non-metal materials, materials under load,vibration |
| Content                 | manufacturing and repairing materials, basics of metallurgy, non-metal materials, materials under load,vibration                       |
| References              | Lecture, Slides,Projections                                                                                                            |

**Theory Topics**

| Week | Weekly Contents                             |
|------|---------------------------------------------|
| 1    | Manufacturing and repairing materials       |
| 2    | Manufacturing and repairing materials       |
| 3    | Structures and how to use them              |
| 4    | Structures and how to use them              |
| 5    | Applications                                |
| 6    | Applications                                |
| 7    | Basics of metallurgy, metals and processing |
| 8    | Basics of metallurgy, metals and processing |
| 9    | Non-metal materials                         |
| 10   | Non-metal materials                         |
| 11   | Materials under load                        |
| 12   | Materials under load                        |
| 13   | Vibration                                   |
| 14   | Vibration                                   |