## Course Syllabus

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|---|---|
| **Code - Course Title** | **İST111 - Statistics and Probability** |
| **Course Type** | I. SEMESTER |
| **Laboratory + Practice** | 3+0 |
| **ECTS** | **3.0** |
| **Language of Instruction** | Türkçe |
| **Course Type** | Required Courses |
| **Course Instructor(s)** | ÖĞR. GÖR. DR. BÜLENT BATMAZ |

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|---|---|
| **Mode of Delivery** | Face to Face |
| **Prerequisites** | There are no prerequisites. |
| **Courses Recomended** | It is not available. |
| **Recommended Resources** | It will be announced later. |
| **Work Placement** | It is not available. |

## Course Syllabus

| Weeks | Learning Outcomes | Topics | Teaching Methods |
|---|---|---|---|
| **Week - 1** | | Basic statistical concepts and frequency distributions | |
| **Week - 2** | | Measures of central tendency | |
| **Week - 3** | | Distribution measures and graphs | |
| **Week - 4** | | Set, permutation, combination concepts | |
| **Week - 5** | | Probability and conditional probability | |
| **Week - 6** | | Discrete random variables and their distributions | |
| **Week - 7** | | Continuous random variables and their distributions | |
| **Week - 8** | | Normal distribution | |
| **Week - 9** | | Sampling distribution and estimation | |
| **Week - 10** | | December forecast 1 | |
| **Week - 11** | | December forecast 2 | |
| **Week - 12** | | Hypothesis tests 1 and 2 | |
| **Week - 13** | | Sample size | |
| **Week - 14** | | Relationship coefficients | |

## Learning Outcomes

| # | Learning Outcome |
|---|---|
| 1 | Ability to solve basic probability problems |
| 2 | Ability to create confidence intervals |
| 3 | Evaluation of statistical data using variance analysis |
| 4 | Regression equations can be created and analyzed. |

## Sustainable Development Goals

*No content has been provided.*

## Course Theme

*No content has been provided.*

## AKTS Workload

| Activity | Duration (Hour) | Count | Workload |
|---|---|---|---|
| Teorik Derse Katılım | 0 | 0 | 0 |
| Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı) | 0 | 0 | 0 |
| Ödevler | 0 | 0 | 0 |
| Proje - Rapor - Sunum Hazırlama | 0 | 0 | 0 |
| Ara Sınav Hazırlığı (sınav süresi dahil) | 0 | 0 | 0 |
| Final Sınavı Hazırlığı (sınav süresi dahil) | 0 | 0 | 0 |
| Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.) | 0 | 0 | 0 |
| Staj Uygulaması | 0 | 0 | 0 |
| | | **Calculated ECTS** | **0** |

## Assessment Method and Passing Requirements

*No content has been provided.*