

## GENEL TANIM / GENERAL DESCRIPTION

|                                                                      |                                                                                                                                                                                                                                                                             |      |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Ders Adı / Course Name                                               | Basic Statistics / Basic Statistics                                                                                                                                                                                                                                         |      |
| Ders Kodu / Course Code                                              | EBUS108                                                                                                                                                                                                                                                                     |      |
| Ders Türü / Course Type                                              |                                                                                                                                                                                                                                                                             |      |
| Ders Seviyesi / Course Level                                         | Bachelor / Bachelor                                                                                                                                                                                                                                                         |      |
| Ders Akts Kredi / ECTS                                               | 4.00                                                                                                                                                                                                                                                                        |      |
| Haftalık Ders Saati (Kuramsal) / Course Hours For Week (Theoretical) | 3.00                                                                                                                                                                                                                                                                        |      |
| Haftalık Uygulama Saati / Course Hours For Week (Objected)           | 0.00                                                                                                                                                                                                                                                                        |      |
| Haftalık Laboratuar Saati / Course Hours For Week (Laboratory)       | 0.00                                                                                                                                                                                                                                                                        |      |
| Dersin Verildiği Yıl / Year                                          | 1                                                                                                                                                                                                                                                                           |      |
| Öğretim Sistemi / Teaching System                                    | Daytime Class / Daytime Class                                                                                                                                                                                                                                               |      |
| Eğitim Dili / Education Language                                     | English / English                                                                                                                                                                                                                                                           |      |
| Ön Koşulu Olan Ders(ler) / Precondition Courses                      | none                                                                                                                                                                                                                                                                        | none |
| Amacı / Purpose                                                      | The aim of the basic statistics course is to make inferences. There is almost no field of science that can infer without statistics. Therefore, using all the fields that make up the data is to teach statistics in terms of values as well as in basic terms as a method. | none |

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|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| İçeriği / Content                                                                 | Collecting statistical data for basic statistics methods of editing these data will be sufficient to calculate the specific descriptive values, interpreting them and eventually determine the which statistical methods we should choose to use according to the topic we choose. | <p>1.HaftaWhat are statistics? What is the subject of Statistics? What is data and what are the methods of data collection? Statistical terms</p> <p>2.HaftaSeries ,Simple, Frequency ,Classified series and Cumulative Frequencies and interpreting the results</p> <p>3.HaftaCumulative Proportional Frequencies and Interpreting, Common statistical series, time series, venue and distribution series. Graphs and droving Histogram</p> <p>4.HaftaIntroduction to Averages ,I. Group Averages, prooporties of the arithmetic mean and examples for simple and frequency series</p> <p>5.HaftaAnother first group averages, sguare , harmonic, geometric mean and choosing the suitable averages, sorting the averages</p> <p>6.HaftaSecond group of averages ,Mod and median ,Quartiles</p> <p>7.HaftaMeasures of Variability, variation range, standard deviation and variance, standard deviation prooporties, Covariance coefficient, Correlation Coefficient</p> <p>8.Hafta.VISA</p> <p>9.HaftaIntroduction to Asymmetry ,Symmetric and Asymmetric Distiribution ,Normal Distribution</p> <p>10.HaftaAsymmetry with Averages, Pearson Coefficients</p> <p>11.HaftaAsymmetry with Quartiles and Bowley Asymmetry Measures ,examples</p> <p>12.HaftaMoments and calculation for simple and frequency series ,Mean and Origin Moment Determinations</p> <p>13.HaftaSkewness and Kurtosis calculation with moments</p> <p>14.HaftaIndexes ,simple indexes, price and quantity (amount) index calculation</p> |
| Önerilen Diğer Hususlar / Recommended Other Considerations                        | none                                                                                                                                                                                                                                                                               | none                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Staj Durumu / Internship Status                                                   | none                                                                                                                                                                                                                                                                               | none                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Kitabı / Malzemesi / Önerilen Kaynaklar / Books / Materials / Recommended Reading | Turanlı,M., Guris,S. (2002).Temel İstatistik .Der Yayınları<br>Veri Analizi Prof Dr. Ahmet Mete Çilingirtürk                                                                                                                                                                       | none                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Öğretim Üyesi (Üyeleri) / Faculty Member (Members)                                | Anton Abdulbasah Kamil                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

### ÖĞRENME ÇIKTILARI / LEARNING OUTCOMES

|   |                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                    |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Bu verileri düzenlemenin temel istatistik yöntemleri için istatistiksel veri toplamak, belirli tanımlayıcı değerleri hesaplamak, yorumlamak ve nihayetinde seçtiğimiz konuya göre hangi istatistiksel yöntemleri seçmemiz gerektiğini belirlemek için yeterli olacaktır. | Collecting statistical data for basic statistics methods of editing these data will be sufficient to calculate the specific descriptive values, interpreting them and eventually determine the which statistical methods we should choose to use according to the topic we choose. |
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### HAFTALIK DERS İÇERİĞİ / DETAILED COURSE OUTLINE

| Hafta / Week |                                                                                                                                                           |          |     |                                                          |                           |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|----------------------------------------------------------|---------------------------|
| 1            | Teorik Dersler / Theoretical                                                                                                                              | Uygulama | Lab | Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques | Ön Hazırlık / Preliminary |
|              | What are statistics? What is the subject of Statistics? What is data and what are the methods of data collection? Statistical terms                       |          |     |                                                          |                           |
|              |                                                                                                                                                           |          |     |                                                          |                           |
| 2            | Teorik Dersler / Theoretical                                                                                                                              | Uygulama | Lab | Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques | Ön Hazırlık / Preliminary |
|              | Series, Simple, Frequency ,Classified series and Cumulative Frequencies and interpreting the results                                                      |          |     |                                                          |                           |
|              |                                                                                                                                                           |          |     |                                                          |                           |
| 3            | Teorik Dersler / Theoretical                                                                                                                              | Uygulama | Lab | Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques | Ön Hazırlık / Preliminary |
|              | Cumulative Proportional Frequencies and Interpreting, Common statistical series, time series, venue and distribution series. Graphs and droving Histogram |          |     |                                                          |                           |
|              |                                                                                                                                                           |          |     |                                                          |                           |
| 4            | Teorik Dersler / Theoretical                                                                                                                              | Uygulama | Lab | Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques | Ön Hazırlık / Preliminary |
|              | Introduction to Averages ,I.Group Averages, properties of the arithmetic mean and examples for simple and frequency series                                |          |     |                                                          |                           |
|              |                                                                                                                                                           |          |     |                                                          |                           |
| 5            | Teorik Dersler / Theoretical                                                                                                                              | Uygulama | Lab | Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques | Ön Hazırlık / Preliminary |
|              | Another first group averages, sguared ,harmonic, geometric mean and choosing the suitable averages, sorting the averages                                  |          |     |                                                          |                           |
|              |                                                                                                                                                           |          |     |                                                          |                           |

|    |                                                                                                                                                           |          |     |                                                          |                           |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|----------------------------------------------------------|---------------------------|
| 6  | Teorik Dersler / Theoretical                                                                                                                              | Uygulama | Lab | Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques | Ön Hazırlık / Preliminary |
|    | Second group of averages ,Mod and median ,Quartiles                                                                                                       |          |     |                                                          |                           |
|    |                                                                                                                                                           |          |     |                                                          |                           |
| 7  | Teorik Dersler / Theoretical                                                                                                                              | Uygulama | Lab | Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques | Ön Hazırlık / Preliminary |
|    | Measures of Variability, variation range, standard deviation and variance, standard deviation properties, Covariance coefficient ,Correlation Coefficient |          |     |                                                          |                           |
|    |                                                                                                                                                           |          |     |                                                          |                           |
| 8  | Teorik Dersler / Theoretical                                                                                                                              | Uygulama | Lab | Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques | Ön Hazırlık / Preliminary |
|    | none                                                                                                                                                      |          |     |                                                          |                           |
|    |                                                                                                                                                           |          |     |                                                          |                           |
| 9  | Teorik Dersler / Theoretical                                                                                                                              | Uygulama | Lab | Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques | Ön Hazırlık / Preliminary |
|    | Introduction to Asymmetry ,Symmetric and Asymmetric Distiribution ,Normal Distribution                                                                    |          |     |                                                          |                           |
|    |                                                                                                                                                           |          |     |                                                          |                           |
| 10 | Teorik Dersler / Theoretical                                                                                                                              | Uygulama | Lab | Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques | Ön Hazırlık / Preliminary |
|    | Asymmetry with Averages, Pearson Coefficients                                                                                                             |          |     |                                                          |                           |
|    |                                                                                                                                                           |          |     |                                                          |                           |
| 11 | Teorik Dersler / Theoretical                                                                                                                              | Uygulama | Lab | Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques | Ön Hazırlık / Preliminary |
|    | Asymmetry with Quartiles and Bowley Asymmetry Measures ,examples                                                                                          |          |     |                                                          |                           |
|    |                                                                                                                                                           |          |     |                                                          |                           |

|    |                                                                                                |          |     |                                                          |                           |
|----|------------------------------------------------------------------------------------------------|----------|-----|----------------------------------------------------------|---------------------------|
| 12 | Teorik Dersler / Theoretical                                                                   | Uygulama | Lab | Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques | Ön Hazırlık / Preliminary |
|    | Moments and calculation for simple and frequency series ,Mean and Origin Moment Determinations |          |     |                                                          |                           |
|    |                                                                                                |          |     |                                                          |                           |
| 13 | Teorik Dersler / Theoretical                                                                   | Uygulama | Lab | Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques | Ön Hazırlık / Preliminary |
|    | Skewness and Kurtosis calculation with moments                                                 |          |     |                                                          |                           |
|    |                                                                                                |          |     |                                                          |                           |
| 14 | Teorik Dersler / Theoretical                                                                   | Uygulama | Lab | Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques | Ön Hazırlık / Preliminary |
|    | Indexes ,simple indexes, price and quantity (amount) index calculation                         |          |     |                                                          |                           |
|    |                                                                                                |          |     |                                                          |                           |

## DEĞERLENDİRME / EVALUATION

| Yarıyıl (Yıl) İçi Etkinlikleri / Term (or Year) Learning Activities                                             | Sayı / Number | Katkı Yüzdesi / Percentage of Contribution (%) |
|-----------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------|
| Toplam / Total:                                                                                                 | 0             | 0                                              |
| Başarı Notuna Katkı Yüzdesi / Contribution to Success Grade(%):                                                 |               | 0                                              |
| Yarıyıl (Yıl) Sonu Etkinlikleri / End Of Term (or Year) Learning Activities                                     | Sayı / Number | Katkı Yüzdesi / Percentage of Contribution (%) |
| Toplam / Total:                                                                                                 | 0             | 0                                              |
| Başarı Notuna Katkı Yüzdesi / Contribution to Success Grade(%):                                                 |               | 0                                              |
| Etkinliklerinin Başarı Notuna Katkı Yüzdesi(%) Toplamı / Total Percentage of Contribution (%) to Success Grade: |               | 0                                              |
| Değerlendirme Tipi / Evaluation Type:                                                                           |               |                                                |

## İŞ YÜKÜ / WORKLOADS

| Etkinlikler / Workloads                                                                                                                                                                        | Sayı / Number | Süresi (Saat) / Duration (Hours) | Toplam İş Yüğü (Saat) / Total Work Load (Hour) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------|------------------------------------------------|
| Ara Sınav / Midterm Examination                                                                                                                                                                | 1             | 40.00                            | 40.00                                          |
| Final Sınavı / Final Examination                                                                                                                                                               | 1             | 60.00                            | 60.00                                          |
| Toplam / Total:                                                                                                                                                                                | 2             | 100.00                           | 100.00                                         |
| Dersin AKTS Kredisi = Toplam İş Yüğü (Saat) / 25.00 (Saat/AKTS) = 100.00/25.00 = 4.00 ~ 4.00 / Course ECTS Credit = Total Workload (Hour) / 25.00 (Hour / ECTS) = 100.00 / 25.00 = 4.00 ~ 4.00 |               |                                  |                                                |

PROGRAM VE ÖĞRENME ÇIKTISI / PROGRAM LEARNING OUTCOMES

| Öğrenme Çıktıları /<br>Learning Outcomes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Program Çıktıları / Program Outcomes |       |       |       |       |       |       |       |       |        |        |        |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.1.1                                | 1.1.2 | 1.1.3 | 1.1.4 | 1.1.5 | 1.1.6 | 1.1.7 | 1.1.8 | 1.1.9 | 1.1.10 | 1.1.11 | 1.1.12 | 1.1.13 |
| 1.Bu verileri düzenlemenin temel istatistik yöntemleri için istatistiksel veri toplamak, belirli tanımlayıcı değerleri hesaplamak, yorumlamak ve nihayetinde seçtiğimiz konuya göre hangi istatistiksel yöntemleri seçmemiz gerektiğini belirlemek için yeterli olacaktır. / Collecting statistical data for basic statistics methods of editing these data will be sufficient to calculate the specific descriptive values, interpreting them and eventually determine the which statistical methods we should choose to use according to the topic we choose. | 3                                    | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3      | 3      | 3      | 3      |

Katkı Düzeyi / Contribution Level : 1-Çok Düşük / Very low, 2-Düşük / Low, 3-Orta / Moderate, 4-Yüksek / High, 5-Çok Yüksek / Very high