



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

|                                                  |   |                                                                                                                                 |                      |                                        |   |                                |   |            |   |
|--------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------|---|--------------------------------|---|------------|---|
| Course Title                                     |   | Nonparametric Statistics                                                                                                        |                      |                                        |   |                                |   |            |   |
| Course Code                                      |   | İŞLE634                                                                                                                         |                      | Course Level                           |   | Third Cycle (Doctorate Degree) |   |            |   |
| ECTS Credit                                      | 5 | Workload                                                                                                                        | 127 ( <i>Hours</i> ) | Theory                                 | 3 | Practice                       | 0 | Laboratory | 0 |
| Objectives of the Course                         |   | The course prepares students to increase the knowledge and present their applications include nonparametric statistical issues. |                      |                                        |   |                                |   |            |   |
| Course Content                                   |   | Issues related to non-parametric statistical processing.                                                                        |                      |                                        |   |                                |   |            |   |
| Work Placement                                   |   | N/A                                                                                                                             |                      |                                        |   |                                |   |            |   |
| Planned Learning Activities and Teaching Methods |   |                                                                                                                                 |                      | Explanation (Presentation), Discussion |   |                                |   |            |   |
| Name of Lecturer(s)                              |   |                                                                                                                                 |                      |                                        |   |                                |   |            |   |

### Assessment Methods and Criteria

| Method              | Quantity | Percentage (%) |
|---------------------|----------|----------------|
| Midterm Examination | 1        | 40             |
| Final Examination   | 1        | 60             |

### Recommended or Required Reading

|   |                                                                      |
|---|----------------------------------------------------------------------|
| 1 | Wasserman, Larry, "All of Nonparametric Statistics", Springer (2007) |
|---|----------------------------------------------------------------------|

| Week | Weekly Detailed Course Contents |                                                      |
|------|---------------------------------|------------------------------------------------------|
| 1    | Theoretical                     | Cochran's Q statistic                                |
| 2    | Theoretical                     | Güvenebilirliği valuer                               |
| 3    | Theoretical                     | Efron-Petrosian Test                                 |
| 4    | Theoretical                     | Friedman two-way analysis of variance sequence       |
| 5    | Theoretical                     | Kendall's tau rank correlation coefficient           |
| 6    | Theoretical                     | Kendall's W coefficient                              |
| 7    | Intermediate Exam               | Midterm Exams                                        |
| 8    | Intermediate Exam               | Midterm Exams                                        |
| 9    | Theoretical                     | Kruskal-Wallis one-way analysis of variance sequence |
| 10   | Theoretical                     | Kuiper'in test                                       |
| 11   | Theoretical                     | Mann-Whitney U test                                  |
| 12   | Theoretical                     | Wilcoxon rank sum test                               |
| 13   | Theoretical                     | The median test                                      |
| 14   | Theoretical                     | Repeat testing,                                      |
| 15   | Theoretical                     | Normality tests                                      |

### Workload Calculation

| Activity                              | Quantity | Preparation | Duration | Total Workload |
|---------------------------------------|----------|-------------|----------|----------------|
| Lecture - Theory                      | 14       | 2           | 3        | 70             |
| Midterm Examination                   | 1        | 25          | 1        | 26             |
| Final Examination                     | 1        | 30          | 1        | 31             |
| Total Workload (Hours)                |          |             |          | 127            |
| [Total Workload (Hours) / 25*] = ECTS |          |             |          | 5              |

\*25 hour workload is accepted as 1 ECTS

### Learning Outcomes

|   |                                                                  |
|---|------------------------------------------------------------------|
| 1 | Non-parametric statistical information to be dominated by        |
| 2 | Apply this information effectively                               |
| 3 | Computer applications can                                        |
| 4 | Parametric and Non-parametric statistics to make the separation. |



**Programme Outcomes** (*Business Administration Doctorate*)

|    |                                                                                                                                                                                                                |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | To be able do and report scientific research and acquire skills for doing independent work                                                                                                                     |
| 2  | Have ethical sensitivity in planning and carrying out a scientific work                                                                                                                                        |
| 3  | Be able to use the qualitative and quantitative research techniques appropriately in scientific work                                                                                                           |
| 4  | Acquire team working skills to carry out disciplinary and interdisciplinary work                                                                                                                               |
| 5  | Develop competencies for preparing projects for business                                                                                                                                                       |
| 6  | Acquire skills for initiative, creativity and acting independent                                                                                                                                               |
| 7  | Be able to adjust to new circumstances and gain problem solving skills                                                                                                                                         |
| 8  | Be able to convey thoughts and suggestions supported by the qualitative and quantitative data effectively to the experts and non-experts of the area using written, verbal and non-verbal communication skills |
| 9  | Gain the necessary experience and capabilities for a productive and competent career in teaching and research                                                                                                  |
| 10 | Be able to select and use the appropriate mathematical and statistical methods in scientific work.                                                                                                             |

**Contribution of Learning Outcomes to Programme Outcomes** 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

|     | L1 | L2 | L3 | L4 | L5 |
|-----|----|----|----|----|----|
| P1  | 3  | 4  | 3  | 3  | 3  |
| P2  | 3  | 3  | 3  | 3  | 3  |
| P3  | 3  | 4  | 3  | 3  | 3  |
| P4  | 4  | 4  | 4  | 4  | 3  |
| P5  | 4  | 3  | 2  | 2  | 4  |
| P6  | 4  | 3  | 2  | 2  | 2  |
| P7  | 2  | 3  | 3  | 3  | 2  |
| P8  | 3  | 3  | 3  | 3  | 3  |
| P9  | 3  | 3  | 3  | 3  | 3  |
| P10 | 2  | 3  | 3  | 3  | 3  |

