## Course Syllabus

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| **Code - Course Title** | **YBS404U -** |
| **Course Type** | IV. SEMESTER |
| **Laboratory + Practice** | 0+0 |
| **ECTS** | **5.0** |
| **Language of Instruction** | Türkçe |
| **Course Type** | Elective Courses |
| **Course Instructor(s)** | RESEARCH ASSISTANT DR. ÖNDER DORAK |

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| **Mode of Delivery** | Open Education |
| **Prerequisites** | There is no prerequisite or co-requisite for this course. |
| **Courses Recomended** | There is no recommended optional programme component for this course. |
| **Recommended Resources** | Data Mining |
| **Work Placement** | Not Applicable |

## Course Syllabus

| Weeks | Learning Outcomes | Topics | Teaching Methods |
|---|---|---|---|
| **Week - 1** | | Fundamentals of Data Mining | |
| **Week - 2** | | R Software Environment | |
| **Week - 3** | | Organization of Data | |
| **Week - 4** | | Distance and Similarity Meausures | |
| **Week - 5** | | Exercises for Midterm | |
| **Week - 6** | | Exercises for Midterm | |
| **Week - 7** | | Midterm exam | |
| **Week - 8** | | Association Rules | |
| **Week - 9** | | Decision Trees | |
| **Week - 10** | | Cluster Analysis | |
| **Week - 11** | | Cluster Analysis | |
| **Week - 12** | | Exercises | |
| **Week - 13** | | Exercises for final exam | |
| **Week - 14** | | Final Exam | |

## Learning Outcomes

| # | Learning Outcome |
|---|---|
| **1** | Knows Data Mining |
| **2** | R software |
| **3** | Be able to use market basket analysis |
| **4** | Do analysis with Cluster Algorithms |
| **5** | Knows Web and Social Media Mining |

## 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.*

| Assessment Method and Passing Requirements | Quamtity | Percentage (%) |
|---|---|---|
| 1.Midterm Exam | 1 | 30 |
| Final Exam | 1 | 70 |
| | **Sum (%)** | **100** |