# AYDIN ADNAN MENDERES UNIVERSITY
# COURSE INFORMATION FORM

| Course Title | Database Management Systems | | | | | | |
|---|---|---|---|---|---|---|---|
| Course Code | BPR188 | | Couse Level | Short Cycle (Associate's Degree) | | | |
| ECTS Credit | 2 | Workload | 50 *(Hours)* | Theory | 2 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | Ability to design, create, query and form databases. | | | | | | |
| Course Content | To design database, forms and queries in database management system. | | | | | | |
| Work Placement | N/A | | | | | | |
| Planned Learning Activities and Teaching Methods | Explanation (Presentation), Demonstration, Discussion, Individual Study | | | | | | |
| Name of Lecturer(s) | | | | | | | |

## Assessment Methods and Criteria

| Method | Quantity | Percentage (%) |
|---|---|---|
| Midterm Examination | 1 | 40 |
| Final Examination | 1 | 70 |

## Recommended or Required Reading

| 1 | Database Management Systems II Turgut Özseven Murathan Yayın |
|---|---|

| Week | Weekly Detailed Course Contents | |
|---|---|---|
| 1 | Theoretical | Database Needs Analysis |
| 2 | Theoretical | Normalization |
| 3 | Theoretical | Normalization |
| 4 | Theoretical | Setting Up Database Tools |
| 5 | Theoretical | Creating Tables and Specifying Properties |
| 6 | Theoretical | Creating Query and Using Types |
| 7 | Theoretical | Creating Query and Using Types |
| 8 | Theoretical | Creating Query and Using Types |
| 9 | Intermediate Exam | Midterm exam |
| 10 | Theoretical | Preparing a Query with Related Tables |
| 11 | Theoretical | Preparing a Query with Related Tables |
| 12 | Theoretical | Preparing a Query with Related Tables |
| 13 | Theoretical | Using DML Queries |
| 14 | Theoretical | Create a form |
| 15 | Theoretical | Create a form |
| 16 | Final Exam | Final exam |

## Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---|---|---|---|---|
| Lecture - Theory | 14 | 0 | 2 | 28 |
| Assignment | 1 | 0 | 5 | 5 |
| Term Project | 1 | 0 | 5 | 5 |
| Midterm Examination | 1 | 5 | 1 | 6 |
| Final Examination | 1 | 5 | 1 | 6 |
| | | | Total Workload (Hours) | 50 |
| | | | [Total Workload (Hours) / 25*] = **ECTS** | 2 |

*25 hour workload is accepted as 1 ECTS*

## Learning Outcomes

| 1 | Understanding database design |
|---|---|
| 2 | Understanding how to create a database |

| 3 | Understanding how to query the database |
|---|---|
| 4 | Comprehending form creation |
| 5 | To be able to design and implement databases in accordance with rules and standards under realistic constraints and conditions. |
| 6 | To be able to use SQL applications to create database applications and use database applications according to the needs of engineering problems. |