# DATABASE MANAGEMENT SYSTEMS

| 1 | Course Title: | DATABASE MANAGEMENT SYSTEMS |
|---|---|---|
| 2 | Course Code: | BIL2106 |
| 3 | Type of Course: | Compulsory |
| 4 | Level of Course: | First Cycle |
| 5 | Year of Study: | 2 |
| 6 | Semester: | 4 |
| 7 | ECTS Credits Allocated: | 3.00 |
| 8 | Theoretical (hour/week): | 3.00 |
| 9 | Practice (hour/week): | 0.00 |
| 10 | Laboratory (hour/week): | 0 |
| 11 | Prerequisites: | - |
| 12 | Language: | Turkish |
| 13 | Mode of Delivery: | Face to face |
| 14 | Course Coordinator: | Prof. Dr. ADEM UZUN |
| 15 | Course Lecturers: | |
| 16 | Contact information of the Course Coordinator: | |
| 17 | Website: | www.uzaktanogren.ademuzun.com |
| 18 | Objective of the Course: | The purpose of this course is to provide teacher candidates ability to manage data using database management systems. |
| 19 | Contribution of the Course to Professional Development: | It enables them to use the theories and applications specified in the purpose of the course in their professional practice. |
| 20 | Learning Outcomes: | |

| | | 1 | Explains the basic concepts of data and database managements systems. |
|---|---|---|---|
| | | 2 | Installs and manages SQL Server. |
| | | 3 | Defines the data types used in SQL Server. |
| | | 4 | Writes queries using SQL language |
| | | 5 | Maintains the security settings in SQL Server. |
| | | 6 | Works with stored procedures and triggers. |
| | | 7 | |
| | | 8 | |
| | | 9 | |
| | | 10 | |

| 21 | Course Content: | |
|---|---|---|

| Course Content: | |
|---|---|

| Week | Theoretical | Practice |
|---|---|---|
| 1 | The basic concepts of database and database managements systems | |
| 2 | Installing SQL Server | |
| 3 | The basic database operations in SQL Server | |
| 4 | Data types in SQL Server | |
| 5 | Data types in SQL Server | |
| 6 | Structured Query Language (SQL) | |

| 7 | Querying data with SQL | |
|---|---|---|
| 8 | Querying data in more than one table with SQL | |
| 9 | Adding and removing data with SQL | |
| 10 | Updating data using SQL | |
| 11 | Table operations in SQL | |
| 12 | Securiy in SQL Server | |
| 13 | Stored procedures ing SQL Server | |
| 14 | Triggers in SQL Server | |

| 22 | Textbooks, References and/or Other Materials: | Introducing Microsoft SQL Server 2008 R2, 2010, Microsoft Press<br>Adım Adım Microsoft SQL Server 2000 Programlama, 2001, Arkadaş Yayınevi<br>Beginning SQL Server 2005 Express, 2006, Rick Dobson, Apress |
|---|---|---|

| 23 | Assesment |
|---|---|

| TERM LEARNING ACTIVITIES | NUMBER | WEIGHT |
|---|---|---|
| Midterm Exam | 1 | 40.00 |
| Quiz | 0 | 0.00 |
| Home work-project | 0 | 0.00 |
| Final Exam | 1 | 60.00 |

Success Grade

Contribution of Final Exam to Success Grade

Total 100.00

Course

method will be applied in midterm and final exam.

**24 ECTS / WORK LOAD TABLE**

| Activites | Number | Duration (hour) | Total Work Load (hour) |
|---|---|---|---|
| Theoretical | 14 | 3.00 | 42.00 |
| Practicals/Labs | 0 | 0.00 | 0.00 |
| Self study and preperation | 14 | 2.00 | 28.00 |
| Homeworks | 0 | 0.00 | 0.00 |
| Projects | 0 | 0.00 | 0.00 |
| Field Studies | 0 | 0.00 | 0.00 |
| Midterm exams | 1 | 10.00 | 10.00 |
| Others | 0 | 0.00 | 0.00 |
| Final Exams | 1 | 10.00 | 10.00 |
| Total Work Load | | | 100.00 |
| Total work load/ 30 hr | | | 3.00 |
| ECTS Credit of the Course | | | 3.00 |

| 25 | | CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS |
|---|---|---|

| | PQ1 | PQ2 | PQ3 | PQ4 | PQ5 | PQ6 | PQ7 | PQ8 | PQ9 | PQ10 | PQ11 | PQ12 | PQ13 | PQ14 | PQ15 | PQ16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ÖK1 | 5 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK2 | 5 | 5 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK3 | 5 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK4 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| ÖK5 | 4 | 5 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK6 | 4 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**LO: Learning Objectives    PQ: Program Qualifications**

| Contribution Level: | 1 very low | 2 low | 3  Medium | 4 High | 5 Very High |
|---|---|---|---|---|---|