

**Vocational School / Computer Programming**

**2024 - 2025 Academic Year**

**DATABASE APPLICATIONS**

**Syllabus**

<b>Course Description</b>					
<b>Name</b>	<b>Code</b>	<b>Semester</b>	<b>T+A Hour</b>	<b>Credit</b>	<b>ECTS</b>
DATABASE APPLICATIONS	BPR2260430	Spring Semester	1+2	2	5
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	Turkish				
<b>Course Level</b>	Short Cycle (Associate's Degree)				
<b>Course Type</b>	Elective				
<b>Course Coordinator</b>	Lect. Beyza KOYULMUŞ				
<b>Name of Lecturer(s)</b>	Lect. Beyza KOYULMUŞ				
<b>Assistant(s)</b>					
<b>Aim</b>	The aim of this course is to transfer intermediate level programming details on Database Setup, Management and Database Management, which are most commonly encountered in business life.				
<b>Course Content</b>	This course contains; Introduction & Explanation of course contents,Database Setup and Configuration ,Database Management ,Database Disaster Recovery ,Data Query Operations and Conditions (SQL),Data Query Operations and Conditions (SQL),Data modification operations (DML),Data Definition Processes (DDL),Grouping Data - Group Functions,Package, Function and Procedure Writing,Package, Function and Procedure Writing,Loops,Condition Expressions,General Review.				
<b>Course Learning Outcomes</b>		<b>Teaching Methods</b>		<b>Assessment Methods</b>	
Defines basic database concepts.		6, 8, 9		A, E	
Makes data query (SQL)		14, 8, 9		A, E	
Makes data modeling		14, 6, 9		A, E	
Writes functions and procedures		12, 6, 8, 9		A, E	
Performs data definition and modification operations		14, 6, 8, 9		A, E	
<b>Teaching Methods</b>	12: Problem Solving Method, 14: Self Study Method, 6: Experiential Learning, 8: Flipped Classroom Learning, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam, E: Homework				
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Introduction & Explanation of course contents				
2	Database Setup and Configuration				
3	Database Management				
4	Database Disaster Recovery				
5	Data Query Operations and Conditions (SQL)				
6	Data Query Operations and Conditions (SQL)				
7	Data modification operations (DML)				
8	Data Definition Processes (DDL)				
9	Grouping Data - Group Functions				
10	Package, Function and Procedure Writing				
11	Package, Function and Procedure Writing				
12	Loops				
13	Condition Expressions				
14	General Review				
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		40			
General Exam		60			

<b>Resources</b>
Lecture slides and documents to be given in the course