

1. SEMESTER				
LESSON	T	U	Krd	ECTS
BIL-101 Programming Basics Algorithm , Flow Diagram, Programming Tools, Variables and Constant, Input-Output Operations, Operators, Decision Structures, Loop Controls, Loop Controls, One-Dimensional Arrays, Multidimensional Arrays, Non-Value Subprograms, Value-Returning Subprograms, Value-Returning Subprograms Programs, Sequential Files, Random Access Files	3	one	4	5
BIL-103 Office Software Document Operations, Formatting Operations, Document Control, Printing, Table Operations, Object Operations, Advanced Features, Macros, Customization, Workspace, Data Entry, Formatting Operations, Formulas, Functions, Graphic Operations, Data Analysis, Printing, Macros, Customization, Working Area, Slide Operations, Design, Slide Objects, Show Settings, Printing, Customization, Internet Concepts, Email	3	one	4	5
BIL-105 Graphics And Animation – I Program Input Settings, Tool Panel, Vector Tools, Vector Tools, Text Editing Operations, Color, Stroke and Fill Applications, Live Filters, Live Filters, Layer Actions, Layer Actions, Slices and Hotspots, Buttons and Pop-up Menus, Pages, Motion Pictures , Slideshow, Optimization and Export, Working with WEB Design Editor	2nd	one	3	4
BIL-105 Basics of Web Design Internet and WEB Definitions, Html Basic Tags, Html Basic Tags, Text and Appearance Tags, Text and Appearance Tags, Link (Bridge) Creation, Link (Bridge) Creation, Table Operations, Table Operations, Forms, Frames, Multimedia Tools, Style Template (CSS) Basics, Style Template (CSS) Properties, Style Template (CSS) Menu Operations, Scanner Problems and Solutions	2nd	one	3	4
MAT 101 Mathematics - I It is to produce a concrete and fast solution to the problems encountered in business life by using general mathematics knowledge, to make the best results by making evaluations from different perspectives at every decision and solution stage, to make the most profitable choice at the lowest cost and to disseminate the use of mathematical operations. Course Content: Numbers, Algebra Equations, Matrices, Trigonometry, Complex Numbers and Inequalities	2nd	0	2nd	3
TD101 Turkish Language-I The general aim of this course is; to make people comprehend what they listen to and read with subtlety and depth; To show that Turkish language is a rich, rooted and productive language; stimulating language love and consciousness; to gain reading pleasure and habit; Adopting the basic values of Turkish society; briefly, to develop individuals' thinking and communication skills. Course Content: Definition of language. Language and communication, language-thought-nation-literature-culture relationship. Types of language. Languages on earth. The place of Turkish among the world languages. Historical development of Turkish written language. Turkish status and spreading areas. Sound, syllable, word, sentence and semantic knowledge of Turkish.	2nd	0	2nd	2nd
YD101 Foreign Language-I The aim of foreign language teaching is to teach the students the basic rules of the foreign language, to improve their foreign language vocabulary, to understand what they read in a foreign language and to express themselves orally or in writing. Course content: Modals, tenses , vocabulary	2nd	0	2nd	2nd
ATA101 Atatürk's Principles and Revolution History-I The general aim of this course is; In line with Atatürk's principles and reforms, his students are bound to Atatürk nationalism; It has adopted the national, moral, spiritual and cultural values of the Turkish Nation and raises generations open to universal and contemporary developments. Course content: * Basic Concepts, * Causes of Collapse of the Ottoman State, * Turkish Renewal Movements, * World War I, * Turkish National Struggle.	2nd	0	2nd	2nd
1. Elective Courses for the Semester (*)				

BIL-S101 Software Installation And Management Operating Systems, Operating System Setup, Operating System Setup, System Features, Control Panel, Group Policies, Replicating the Operating System, Security Software, Office Software, Other Application Software	one	one	2nd	3
BIL-S103 Computer Hardware Measures Against Static (Static) Electricity, Properties of Hardware Materials, Power Requirement of Computer Case, Motherboard , Processor and Memory Units, Disk Drives, Hardware Cards, Peripherals, BIOS, Error Messages	one	one	2nd	3
SS-101 Communication Verbal Communication, Written Communication, Nonverbal Communication, Formal (Formal) Communication, Non-Formal (Informal) Communication, Non-Organizational Communication	2nd	0	2nd	3
SS-103 Occupational Health and Safety Occupational Health and Safety Historical Development of Occupational Health and Business Purpose and Importance of Safety Health and Concepts of Health in Turkey in the Safety Area and Safety of Overview of Job Accidents Occupational Diseases Occupational Accidents and Occupational Be Taken Against Disease Precautions Work Accidents and Occupational Diseases of nature costs	2nd	0	2nd	3
SS-105 Life Skills and Social Activity Self-realization, self-knowledge, communication, factors that hinder communication, social skills, saying no, problem solving, self-revealing, anger, stress, excitement, anxiety and fear, etc. coping with challenging emotions, healthy decision making, public speaking, self-concept, career and career planning, cv preparation, efficient studying, aggressive and entrepreneurial behavior development, emotional intelligence .	2nd	0	2nd	3
SS-107 University and Career Success Career management and conceptual framework, career management process, tools and practices that form the organizational dimension of career development, career cycles of employees, career problems and solutions will be discussed.	2nd	0	2nd	3
2. SEMESTER				
BIL-102 Database-I Database Needs Analysis, Normalization , Installing Database Tools, Creating Tables and Determining Their Properties, Creating and Using Queries, Preparing Queries with Associated Tables, Using DML Queries, Writing User Queries, Writing View Queries, Writing Trigger Queries, Writing Subprogram Queries, Making Transaction Transactions, Writing Index Queries	3	one	4	7
BIL-104 Software Architectures Determining and analyzing the requirements, Selecting the software development model and software architecture, Using design tools, Designing the software suitable for the requirements, Designing the software suitable for the requirements, Coding the software, Using the file version control tools, Using the test tools, Testing the software, Using the project management tools, To carry out maintenance and repair processes	3	one	4	6
BIL-106 Graphics and Animation-II Animation Basics, Graphics, Text Processing, Symbols, Animation Techniques Audio and Video Operations, Screens, Components, Dynamic Data	2nd	one	3	5
MAT102 Mathematics - II Course Content: Functions, Trigonometry , vectors, matrices	2nd	0	2nd	3
TD102 Turkish Language-II The general aim of this course is; to make people comprehend what they listen to and read with subtlety and depth; To show that Turkish language is a rich, rooted and productive language; stimulating language love and consciousness; to gain reading pleasure and habit; Adopting the basic values of Turkish society; briefly, to develop individuals' thinking and communication skills. Course Content:	2nd	0	2nd	2nd

The concept of expression. Ways to improve thought. The forms of expression. General features of reading, listening, speaking and writing. Oral expression and types of verbal expression. Written expression and types of written expression.				
YD102 Foreign Language-II To bring students to A2 level in line with CEF (Common European Frame). Course content: Vocabulary, Grammar, Reading, Listening, Writing.	2nd	0	2nd	2nd
ATA102 Atatürk's Principles and Revolution History-II The general aim of this course is; In line with Ataturk's principles and reforms, his students are bound to Atatürk nationalism; It has adopted the national, moral, spiritual and cultural values of the Turkish Nation and raises generations open to universal and contemporary developments. Course Content: * Atatürk's reforms, Atatürk Period Turkish Foreign Policy * * * Principles of Ataturk in Turkey and the world political developments after 1938	2nd	0	2nd	2nd
2. Elective Courses for the Semester (**)				
BIL-S102 Web Editor WEB Editor Basic Tools Text Operations, Table Operations, Multimedia Operations Links, Framework Operations, Templates, Library Operations, Form Operations, Interactive Elements, Layer Operations, Accessibility and Site Management	one	one	2nd	3
BIL-S104 Web Project Management WEB site needs, WEB site design, WEB site publishing operations, WEB site security settings, WEB site backup operations, WEB site maintenance operations	one	one	2nd	3
SS-102 Entrepreneurship In this course, the issues related to the conceptual framework, approaches, functions, process, entrepreneurship culture, local and international context of entrepreneurship and entrepreneurship ethics will be discussed.	2nd	0	2nd	3
SS-104 Quality Assurance and Standards Standart dizaynı'nın tarihi, ilgili kuruluşlar ve faaliyetleri, kalite kontrol, kalite yönetim sistemi, kalite yönetim sistemi, kalite yönetim sistemi, kalite yönetim sistemi, kalite yönetim sistemi, kalite yönetim sistemi	2nd	0	2nd	3
SS- 106 Environmental Protection Environmental Regulation Information, Risk Analysis, Waste Storage, Personal Protection Measures, International Health and Safety Alerts, Occupational Health and Safety Regulation	2nd	0	2nd	3
SS-106 Professional Ethics Examine the concepts of ethics and morality, Examine the ethical systems, Examine the factors that play a role in the formation of morality, Examine the ethics of profession, Examine the consequences of unethical behavior in professional corruption and professional life, Examine the concept of social responsibility	2nd	0	2nd	3
3. SEMESTER				
BIL-201 Object Oriented Programming-I Installing Software Required for Programming, Basic Console and Operating System Application, Fixed, Variable and Object Usage, Using Operators, Decision Control Statements, Loop Control Statements, User Defined Functions, Ready Functions, File Operations, Class-Field and Method Usage, Local and Global References, Arrays, Multidimensional Arrays, Standard Components, Advanced Components, Database Connection, Database Queries	3	one	4	7
BIL-203 Internet Programming-I Application Software Installation and Testing, Variables and Constants, Operators, Decision Control Structures, Loop Control Structures, User Defined Functions, Ready Functions, Arrays and Objects, Filing Processes, WEB Form Applications, Data Transfer Methods Between Pages, Database Operations-1, Database Operations-2, XML and WEB services -1, XML and WEB services -2	3	one	4	7

BIL-205 Database-II Installing the server software of at least two different manufacturers of the industry standard, installing the database management panel, creating databases and defining users, creating databases and defining users, defining tables and managing diagrams, defining tables and managing diagrams, performing data transfer operations, making data transfer operations, the existing database a new database to create, existing from the database the new database to create, view, trigger, subroutines and edit indexes, views, triggers, subroutines and edit indexes, views, triggers, subroutines and edit indexes, user roles, to edit user-defined data types, Editing rules and default values, Data replication and maintenance plan, Data replication and maintenance plan, Performance analysis and improvements	3	one	4	7
3. Elective Courses for the Semester (***)				
BIL-S201 Visual Programming-I Installing and setting up a visual programming editor, Forms and properties, Standard objects, Login and message windows, Dialog windows, Advanced objects, Operators, Functions, Decision structures and loops, Arrays, Graphics applications, Reporting applications	3	one	4	6
BIL-S203 Sensors Temperature Sensors, Moisture Sensors, Speed Sensors, Vibration Sensors, Acceleration Sensors, Position Sensors, Position Sensors, Approach Sensors, Pressure Sensors, Flow Sensors, Level Sensors, Impact (Force) Sensors	one	one	2nd	3
BIL-S205 Network Basics Computer Networks, Network Cables, Network Addressing, Sharing and Security, Network Peripherals	one	one	2nd	3
BIL- S207 Server Operating System Server Operating System, Server Operating System Management, File System, Disk Clustering Systems (Raid), File and Directory Management, Data Sharing and Security, Backup and Restore, Active Directory Structure, User Groups Account Creation and Management, Advanced Account Management, Tcp / Ip Networks, Network Printing Services, Dhcp Service, Wins Service, Dns Service	one	one	2nd	3
BIL-S209 Operating Systems Structure of Operating Systems and Services Provided, Task Management, Memory Management, Log Systems, Input / Output Operations, Distributed Operating Systems, Security and Protection	one	one	2nd	3
4. SEMESTER				
BIL-202 Object Oriented Programming-II Setting Up By Setting Up Software For Object-Based Programming, Preparing Console Applications With Basic Statements Of Programming Language, Preparing Operating System Based Applications With Basic Statements Of Programming Language, Decision Control Statements, Loop Control Statements, Control Objects And Arrays, Object Usage And Operators, Standard Functions, User Defined Functions, Component Library, Data Structures, Operating System Objects, Menu Design and Forms, Database Operations, Interactive Data Objects	3	one	4	7
BIL-204 Internet Programming –II Software installations and publishing for the web server, Variables and constants, operators and transaction priority, Decision control statements, Loop control statements, User-defined functions, Ready functions, Array operations, File operations, Web forms, Data transfer between pages, Database connection, Database operations, XML applications and web services	3	one	4	7
4. Elective Courses of Semester (****)				

BIL-S202 Visual Programming-II Connecting to the local database and listing the data, Processing the data in the local database, Accessing the desired record / records in the local database , Connecting to the remote database and listing the data, Processing the data in the remote database , Making simple queries , Making simple queries , Making statistical queries, Getting graphics from the database , Reporting from database , Creating and adding components, Preparing help files, Preparing database installation kit, Preparing program installation kit	3	one	4	6
BIL-S204 Database and Management Database Needs Analysis, Installing Database Tools, Creating Tables and Determining Their Properties, Creating Queries and Using Types, Preparing Queries with Related Tables, Using DML Queries, Performing Database Management, Ensuring Database Security	one	one	2nd	5
BIL-S206 System Analysis and Design Selecting the Project Subject for the Field, Presenting the Obtained Information, Determining the Project's Topics and Working Environment by Analysis, Identifying the Data and Types to be Recorded in the Project, Presenting the Information Obtained, Determining the Algorithm and Flow Chart of the Project, Setting up the Platform to Run the Project, Presenting the Preparations, Writing and Testing the Codes of the Main Topics, Presenting the Project, Preparing the Project Installation Package, Preparing the Report Booklet Containing All the Stages of the Project	one	one	2nd	5
BIL-S208 Open Source Operating System Open Source Operating System Structure, Basic Desktop Concepts and Operations, File System and Operating Logic, Open Source Operating System Basic Tools and Applications, Basic Network Programs and Network Settings, Internet Connection, Basic User and Group Operations, Open Source Operating System Editors, Installing and Updating Programs, Shell Operations, File and Directory Sharing	one	one	2nd	5