AKSARAY UNIVERSITY
AKSARAY TECHNICAL SCIENCES VOCATIONAL SCHOOL
DEPARTMENT OF COMPUTER TECHNOLOGY AND PROGRAMMING
COURSE CATALOG

FIRST SEMESTER

COURSE NAME: ATATURK 'S PRINCIPLES AND REVOLUTION HISTORY I 1st SEMESTER   L: 2 P: 0 CREDIT: 0 ECTS:2
CONTENTS: Main concepts, the innovations of Ottoman Empire in 19. Century, World War I. Ve Turkish Independence War.

COURSE NAME: TURKISH LANGUAGE I 1st SEMESTER   L: 2 P: 0   CREDIT: 0 ECTS:2
CONTENTS: Language and languages,connection of language and culture,the place of turkish language among world languages,languages in terms of source and structure,historical development of literary writing:old turkish,middle turkish,turkish of harezm,ancient anatolian turkish;new term of turkish,modern term of turkish,turkish of west,turkish of southwest, turkish of turkey,turkish of east.phonetics,sound and formation of sound,vowel harmonies, vocal harmonies in turkish,characteristics of voices in turkish.the structure of syllables in turkish and stress,morphology,roots,bodies and grammar affixes(prefixes,suffixes),words in terms of expression and functions :nouns,adjectives,adverbs,verbs,conjugation of verbs, prepositions,conjunctions,semantics.

COURSE NAME: FOREIGN LANGUAGE I 1st SEMESTER   L: 2 P: 0   CREDIT: 0 ECTS:2
CONTENTS: Reading/listening/speaking/ writing about names and occupations, relationships, directions and transportation, people, events and times, clothes, home and work in English

COURSE NAME: MATHEMATICS-I 1st SEMESTER   L: 2 P: 0   CREDIT: 2 ECTS:2
CONTENTS: Number Sets,Complex Numbers, Trigonometri, Exponential Numbers, Inequalities and Equations with Second-Order, Logarithm and Properties, Functions, Absolute Value, Signum Function, Limit and Continuity, Derivative and its applications, Matrix Algebra. Determinants.

COURSE NAME :PROGRAMMING FUNDAMENTALS 1st SEMESTER   L: 3 P: 1   CREDIT:4 ECTS:5
CONTENTS: Algorithm, Flow Diagram, Programming Tools, Variable and Fixed, Input / Output Operations, operators, decision structures, loop Controls, Loop Controls, One-DimensionalArrays, MultidimensionalArrays, Subroutines not return value, the value rotating sub- Programs, Subroutines rotating value, SequentialFiles

COURSE NAME :GRAPHICS AND ANIMATION I 1st SEMESTER   L: 3 P: 1   CREDIT: 4 ECTS:4
CONTENTS: Vehicle Panel, Vector Tools, Text Editing Process, Color, StrokeandFill Applications Live Filters Live Filters, LayerProcessesand Active RegionsSlices, Buttonsand Pop-up Menus, Pages, Motion Pictures, Slideshow, ExportingandOptimization, Web Design Editor Workingwith

COURSE NAME : DATABASE I 1st SEMESTER   L: 3 P: 1   CREDIT: 4 ECTS:4
CONTENTS: Data base designing, creating, querying and other procedures related to database

COURSE NAME : WEB DESIGN BASICS 1st SEMESTER   L: 2 P: 2   CREDIT: 3 ECTS:4
CONTENTS: Internet,HTML,links,Table,Multimedia,Frames,Still,CSS,Menu,Browser Problems

COURSE NAME : BASIC ELECTRICS AND ELECTRONICS 1st SEMESTER   L: 3 P: 0   CREDIT: 3 ECTS:3
CONTENTS: The basic electrical concepts, electrical / electronic circuit elements (resistor, capacitor, coil, transistor, diode, zener diode, transformer, fuse, light emitting diode). Electrical / electronic circuit component tests. Electronic circuit diagram reading. Rectifying circuits, passive filters and regulator circuit applications.

COURSE NAME: BASIC COMPUTER SCIENCE 1st SEMESTER   L: 1 P: 1   CREDIT: 2 ECTS:2
CONTENTS: Basic computer knowledge, operating systems, office programs, internet

COURSE NAME: ATATURK'S PRINCIPLES AND REVOLUTİON HISTORY II 2nd SEMESTER   L: 2 P: 0   CREDIT: 0 ECTS:2
CONTENTS: Turkish Revalution: revalutions on fields of political, loyal, social, cultural, training.

COURSE NAME: TURKISH LANGUAGE II 2nd SEMESTER   L: 2 P: 0   CREDIT: 0 ECTS:2
CONTENTS: The written expression forms such as;Phrases,true, side and metaphoric meanings of words, idioms,doublings,terms, language mistakes, sentence structure of Turkish, sentence elements, novels, articles, essays and poems, and types of expression such as; presentation, examples of reports and records, petitions , business letter and Curriculum Vitae (CV) writing, conversation and discussion.

COURSE NAME: FOREIGN LANGUAGE-II 2nd SEMESTER   L: 2 P: 0   CREDIT: 0 ECTS:2
CONTENTS: Reading/ writing /listening/speaking exercises about activities, weather and ongoing activities, food, past events, appearance and health, abilities and requests, past, present and future plans in English

COURSE NAME: VISUAL PROGRAMMIN-I 2nd SEMESTER   L: 3 P: 1   CREDIT:4 ECTS:5
CONTENTS: Installation and setting up visual programming editor, Forms, and features the Standard Objects, Introduction and message windows, dialogue windows, advanced objects, operators, functions, decision structures and loops, arrays, graphics applications, reporting applications.

COURSE NAME: NETWORK FUNDAMENTALS 2nd SEMESTER   L: 2 P:0   CREDIT:2 ECTS:2
CONTENTS: Computer Networks, Network Cables, Network Addressing, Sharing and Security, Network Peripherals.

COURSE NAME: GRAPHICS AND ANIMATION-II 2nd SEMESTER   L: 3 P:1   CREDIT:4 ECTS:5
CONTENTS: Animation Basics Graphics, Graphics Text Processing, Symbols, Animation Techniques, Audio and Video Processing, Displays, Components, Dynamic Data, Software Optimization, Flash Files Publish Settings, in the Actions Panel, Basic Programming Structures, Objects, Functions, Audio and Video Processing, Server Side Operations.

COURSE NAME: WEB DESIGN EDITORS 2nd SEMESTER   L: 3 P:1   CREDIT:4 ECTS:4
CONTENTS: Web Editor Basic Tools, Text Processing, Table Operations, Multi-Media Operations, Links, Frame Procedures, Templates, Library Processing, Form Processing, Interactive Elements, Layer Operations, Accessibility and Site Management.

COURSE NAME: OFFICE SOFTWARE 2nd SEMESTER   L: 3 P:1   CREDIT:4 ECTS:4
CONTENTS: Document Processing, Forming Processes, Document Control, Printing, Table Processing, Object Transactions, Advanced Features, Macros, Customizing, Study Area, Data Entry, Formatting, Processes, Formulas, Functions, Charting, Data Analysis, Printing, Macros, Customizing, Work Field, Slide Processing, Design, Slide Objects, Display Settings, Print, Customization, Internet Concepts, E-Mail

COURSE NAME: COMPUTER HARDWARE 2nd SEMESTER   L: 3 P:1   CREDIT:4 ECTS:4
CONTENTS: Precautions against static electricity Static, Hardware, Materials Properties, Computer case Power Supply, Motherboard, Processor and memory units, Disk Drives, Hardware Cards, Peripherals, BIOS Error Messages.

COURSE NAME: SYSTEM IMPROVEMENTS 2nd SEMESTER   L: 3 P:1   CREDIT:4 ECTS:4
CONTENTS: Hardware and software upgrades, increase system performance

COURSE NAME: SENSORS 2nd SEMESTER   L: 3 P:1   CREDIT:4 ECTS:4
CONTENTS: Temperature Sensors, Humidity Sensors, Speed Sensors, Vibration Sensors, Acceleration Sensors, Position Sensors, Proximity Sensors, Pressure Sensors, Flow Sensors, Level Sensors, Force Sensors Pulse.

COURSE NAME: SCIENTIFIC PRINCIPLES OF TECHNOLOGY 2nd SEMESTER   L: 3 P:1   CREDIT:4 ECTS:4
CONTENTS: Physical Quantities, Geometry and Physics, Vectors, collection of vectors, scalar product, vector product, Newton's laws of motion, momentum conservation, Energy Concepts, Potential Energy, Conservative Forces,

COURSE NAME: DATA STRUCTURES AND PROGRAMMING 2nd SEMESTER   L: 3 P:1   CREDIT:4 ECTS:4
CONTENTS: Data structures, linear list , list types,Stack and stack operations, Infix,Suffix and Prefix statements Circular structured queue and circular structured queue operations,binary tree and operations, Sort methods ,Search methods

COURSE NAME: ENTREPRENEURSHIP 3rd SEMESTER   L: 3 P: 1   CREDIT:4 ECTS:4
CONTENTS: Definition of entrepreneurship, Entrepreneurship and Business, Small Business Administration Description of the Business Impact of Entrepreneurs, Who is the Entrepreneur, Entrepreneur Start-up to be, a company, Managing Growing Enterprises.

COURSE NAME: VOCATIONAL FOREIGN LANGUAGE-I 3rd SEMESTER   L: 2 P: 0   CREDIT:2 ECTS:2
CONTENTS: Technical terms used in the foreign language Review of basics in English language
Understanding of the following concepts: 1-Operating system setup documents 2-Operating system error messages
3-Operating system help documents   4-Programming language documents

COURSE NAME: INTERNET PROGRAMMING -I 3rd SEMESTER   L: 1 P: 2   CREDIT:2 ECTS:4
CONTENTS: Variables and Constants, Operators, Decision Control Structures, Loop Control Structures, User DefinedFunctions, StockFunctions, Arraysand Objects, FilingProcedures, Web Forms, Data Transfer MethodsBetweenPages, Database Operations 1, Database Transactions 2, XML and Web services 1, 2 XML and Web services

COURSE NAME: VISUAL PROGRAMMING - II 3rd SEMESTER   L: 1 P: 2   CREDIT:2 ECTS:3
CONTENTS: Contact the local data base and data list, the local database, data processing, the records required to reach a local database, connect to a remote database and the data list, the remote database, manipulate data, do simple queries , statistical queries, to get graphics from a database, a database to get the

COURSE NAME: OBJECT ORIENTED PROGRAMMING-I 3rd SEMESTER   L: 1 P: 2   CREDIT:2 ECTS:4
CONTENTS: Establishment of the necessary software for programming, Basic One Console Application and Operating System, Fixed and Variable Object Use, the operators use, 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.

COURSE NAME: EVALUATION OF INTERNSHIP 3rd SEMESTER   L: 1 P: 2   CREDIT:0 ECTS:3
CONTENTS: industrial application , present as a report.

COURSE NAME: DATABASE-II 3rd SEMESTER   L: 4 P: 0   CREDIT:4 ECTS:4
CONTENTS: Database management systems,Database server setup,Database control panel,Database setup

COURSE NAME: INTERNET SECURITY   3rd SEMESTER   L: 4 P: 0   CREDIT:4 ECTS:4
CONTENTS: Basic information about the Internet and Network Security,Browse for security solutions in general,Types of possible attacks on the Internet,Malicious Software And Other Software Risks,Risks Associated with Hardware and Peripherals

COURSE NAME: WEB PROJECT MANAGEMENT 3rd SEMESTER   L: 4 P: 0   CREDIT:4 ECTS:4
CONTENTS: Web site needs, web site design, web site preparation procedures for publication, web site publishing processes, web site security settings, web site backups, web site maintenance.

COURSE NAME: SOFTWARE SETUP AND MANAGEMENT 3rd SEMESTER   L: 4 P: 0   CREDIT:4 ECTS:4
CONTENTS: Operating Systems, Operating System Installation, SystemProperties, Control Panel, GroupPolicies, Operating System, duplicate, Security, Software, Office Software, Other Application Software.

COURSE NAME: OPEN SOURCE OPERATING SYSTEM 3rd SEMESTER   L: 4 P: 0   CREDIT:4 ECTS:4
CONTENTS: Open Source Operating System Structure, Basic Concepts and Procedures Desktop, File System and the Logic of thestudy , the Open Source Operating System Basic Tools and Applications, Basic Networking Programs and Network Settings , Internet Access, Basic User and Group Operations, Open Source Operating System Editor, Set upandupdatethe program , Shell Processes, File and Directory Sharing.

COURSE NAME: CONTENT MANAGEMENT SYSTEM 3rd SEMESTER   L: 4 P: 0   CREDIT:4 ECTS:4
CONTENTS: Content Management Systems, Site Management, Content Management, Component Management, Extension Management, Vehicle Management..

COURSE NAME: PERIPHERAL DEVICES 3rd SEMESTER   L: 2 P: 0   CREDIT:2 ECTS:2
CONTENTS: Printers,Digital Imaging Devices and other peripheral devices

COURSE NAME: COMMUNICATION 3rd SEMESTER   L: 2 P: 0   CREDIT:2 ECTS:2
CONTENTS: Oral Communications to set up, establish written communication, to communicate non-verbal, to communicate with Formal Formal, Informal Communication to Non-Formal, non-communicating with the organization.

COURSE NAME: INFORMATION MANAGEMENT 3rd SEMESTER   L: 2 P: 0   CREDIT:2 ECTS:2
CONTENTS: Information, Information Systems, Information Management

COURSE NAME: VOCATIONAL FOREIGN LANGUAGE-II 4th SEMESTER   L: 2 P: 0   CREDIT:2 ECTS:2
CONTENTS: Communicate (writing and spoken) using the technical language,Compiler error Error messages in programming code and system messages

COURSE NAME :SYSTEM ANALYSIS AND DESIGN 4th SEMESTER   L: 2 P: 2   CREDIT:3 ECTS:5
CONTENTS: Against a field to select the project topic Obtained present information, threads and Working Environment in the project with analysis Identify the Project in which the data to be saved and Determining Types, Information Obtained Presentation, Project Algorithm and Flow Chart to Identify, Establish the Project Of Working Platform, the Preparation Presentation, Project Main Topics Writing and Testing Code, presentation of the project, Detailed Proposals for the project to import, Code Writing and Testing the Project Presentation of the Project Installation Package Prepare, Prepare project All Stages booklet containing the report

COURSE NAME : INTERNET PROGRAMMING-II 4th SEMESTER   L: 2 P: 2   CREDIT:3 ECTS:5
CONTENTS: Introductionto PHP, Arrays, Constants, Operators, Control Structures, Functions of theString, Time, Matt. Functionsandvariable.,OtherStockFunctions, File andFolder Operations, With PHP Session Management, IntroductiontoMySQL, PHP, MySQLFunctions, Using MySQLwith PHP, Sample Applications

COURSE NAME : VISUAL PROGRAMMING-III 4th SEMESTER   L: 2 P: 2   CREDIT:3 ECTS:5
CONTENTS: Active Form,DLL,Ole Objects,File Transfer Applications,Multi Layer Applications.

COURSE NAME : OBJECT ORIENTED PROGRAMMING-II 4th SEMESTER   L: 2 P: 2   CREDIT:3 ECTS:5
CONTENTS: Configuringthe software set upforthe Object -Oriented Programming, Programming Language Basic Deyimleriyle Console Applications Prepare, PreparetoPractice-Based Operating System Programming Language Basic Deyimleriyle, Decision Control Statements, Loop Control Statements, Control Objects andArrays, Operatorsand Object Use, Standard Functions , UserDefinedFunctions, Component Library, Data Structures, Operating System Objects, Menu Design, and Forms , Database Operations, Interactive Data Objects.

COURSE NAME : MICRO CONTROLLERS 4th SEMESTER   L:4 P:0   CREDIT:4 ECTS:4
CONTENTS: Microcotroller architecture, input-output connections and settings, programming methods and programming pim microcontrolers with Pic Assembly

COURSE NAME : SERVER OPERATING SYSTEMS 4th SEMESTER   L:4 P:0   CREDIT:4 ECTS:4
CONTENTS: Server Operating System, Server Operating System Management, File System, Disk Clustering, Systems (RAID), Disk Clustering Systems (RAID), File andFolder Management, Data Sharingand Security, Backupand Restore, the Active Directory Structureand User GroupsAccountCreationand Management, Advanced Account Management, TCP / IP Networks, Network Printing Services, Dhcp Service, WINS service, Dns Service

COURSE NAME : DATABASE ADMINISTRATION 4th SEMESTER   L:4 P:0   CREDIT:4 ECTS:4
CONTENTS: Database Needs Analysis, Normalization, Database Tools Setup to do, to create the tables and Features Identify, create, and Varieties Using the query, the query with related Statements Preparing, Using DML queries, Database Management

COURSE NAME : SOFTWARE ARCHITECTS 4th SEMESTER   L:4 P:0   CREDIT:4 ECTS:4
CONTENTS: To identify and analyze requirements, select the software development model and software architecture, design tools to use , the requirements for software design, software code, use the File version control tools, testing tools to use to test the software, using project management tools, maintenance and repair process transactions do.

COURSE NAME : COMPUTERIZED CONTROL 4th SEMESTER   L:4 P:0   CREDIT:4 ECTS:4
CONTENTS: RS 232 422 485 communication standards, the Ethernet protocol, LPT, USB ports structure, the computer connects to the ISA or PCI USB LPT, RS232 and so on. controls a variety of devices, programming languages, the AD and DA converter cards, relay output cards, servo and stepper motor control cards and control structures.

COURSE NAME : RESEARCH METHODS AND TECHNIQUES 4th SEMESTER   L:2 P:0   CREDIT:2 ECTS:2
CONTENTS: Selected Research Topics, Making Resource Research, Research Results Evaluation and Research Results Report Conversion into, Making the presentation, preparation, presentation Assault.

COURSE NAME : QUALITY ASSURANCE AND STANDARDS 4th SEMESTER   L:2 P:0   CREDIT:2 ECTS:2
CONTENTS: The Concept of Quality, Standards and Standardization, the standard importance of manufacturing and service sector quality management and standards, environmental standards, the quality management system models, models of quality management system, strategic management, strategic management, to participate in the management, Process management system, resource management system, resource management system The EFQM excellence model , production quality control, inspection and sampling, inspection and sampling, total quality control, Total Quality Control , Control Charts, Statistical Distributions

COURSE NAME : PROFESSİONAL ETHİCS 4th SEMESTER   L:2 P:0   CREDIT:2 ECTS:2
CONTENTS: Ethics, main ethics principles, varieties of ethics, quality principles, ethic problems in business, reclamations, evaluating faulty services in industry.