MUNZUR UNIVERSITY
TUNCELİ VOCATIONAL SCHOOL
COMPUTER PROGRAMMING COURSE CONTENTS

I.SEMESTER
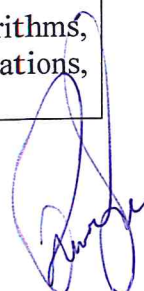
COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Turkish Language-I	2	2	2

Course content

To comprehend that language is the product of human mind, to comprehend the structural features and richness of Turkish language, to comprehend the ways of being successful in written expression, to develop research, reading and information skills.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Principles of Atatürk and History of Turkish Revolution I	2	2	2

Course content

The aim of reading Atatürk's Principles and History of Revolution course and the concept of revolution, the collapse of the Ottoman Empire and the general principles of the Turkish Revolution. The disintegration of the Ottoman Empire, Armistice Treaty, the situation of the country in against invasions and Mustafa Kemal Pasha in Samsun output, the first step to national struggle, congresses at organized way, the National Forces and the National Pact, Turkey opening of the Grand National Assembly, Turkey to address the war of Independence of the management of the national Assembly, Sakarya Victory to the national struggle, Sakarya war and the Great Attack, Mudanya to Lausanne, education and culture, the national struggle, social and national struggle in the economic field.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
English-I	2	2	2

Course content

Markers; prepositions: place, time, movement; singular and plural nouns, countable and uncountable names, times, large time, present time, past tense structures, modes, will, should, should not, must, must, can, compare structures, names, people, possessions , positive sentences, negative sentences and question sentences, conjunctions.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
General Mathematics	3	3	4

Course content

Numbers, equations and inequalities, functions, trigonometry, complex numbers, logarithms, systems of linear equations and matrices, limit and continuity, derivative and its applications, integrals and applications, differential equations, statistics.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Programming Basics	4	3	6

Course content

Programming tools, variables and constants, input-output operations, operators, algorithm and flow diagram, decision structures, loop controls, one dimensional arrays, multidimensional arrays, subprograms that do not return values, subprograms that return values, sequential files, random access files.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Basics of Web Design	3	3	3

Course content

Internet and web definitions, HTML base tags, text and view tags, link (bridge) creation, table operations, forms, frames, multimedia tools, style template (CSS) features, menu operations, browser problems and solutions.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Graphics and Animation-I	3	3	4

Course content

Program Input Settings, tool panel, vector tools, text editing operations, color, stroke and fill, applications, live filters, layer operations, layer operations, slices and active zones, buttons and drop-down menus, pages, moving pictures, slideshow, optimization and export, working with web design editor.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Software Installation and Management	2	2	4

Course content

Operating systems, operating system installation, system features, control panel, group policies, operating system replication, security software, office software, other application software.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Office Software	4	3	6

Course content

To have basic knowledge of office programs such as word, Excel, power point, Windows operating system and basic hardware.

II. YARIYIL DERSLERİ

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Turkish Language-II	2	2	2

Course content

To be able to recognize the subject of written expression types in daily life, to comprehend the importance of punctuation in written expression, to comprehend the importance of correct expression in personal and social communication, to be able to apply research, reading and information skills

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Atatürk's Principles and History of Revolution-II	2	2	2

Course content

The aim of reading Atatürk's Principles and History of Revolution course and the concept of revolution, the collapse of the Ottoman Empire and a general view of the causes of the Turkish Revolution; The disintegration of the Ottoman Empire, Armistice Treaty, the situation of the country in against invasions and Mustafa Kemal Pasha in Samsun output, the first step to national struggle, congresses at organized way, the National Forces and the National Pact, Turkey opening of the Grand National Assembly, Turkey to address the war of Independence of the management of the national Assembly, Sakarya Victory to the national struggle, Sakarya war and the Great Attack, Mudanya to Lausanne, education and culture, the national struggle, social and national struggle in the economic field.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
English II	2	2	2

Course content
With this course, students will be able to;
I. English grammar, II. understand what they listen to, III. to be able to speak
IV. reading comprehension, V. oral expression and writing skills to win

a. Future Tense, "will and be going to": Affirmative, negative and interrogative forms, b. Time adverbs: "next, in two days, today, tomorrow, etc." c. First Conditionals: "If ...., Subject + will"
a. Sentences with "too/enough, so/such", b. Sentences with "after and before", c. Adverbs of manner, place and time. d. Definite and Indefinite Articles: "a, an, the".
a. Past Tense: Affirmative, negative and interrogative forms, b. Regular and Irregular verbs (Past Forms), c. Time adverbs: "ago, last, yesterday, etc."
a. "When sentences" in Past Tense, b. Sentences with "But, and, or", c. Second Conditionals: "If ...., Subject+would".
a. Adjectives with "-ed and -ing" ending, b. Prohibition and Obligation: "should and should not"
a. Past Continuous Tense, "was/were + Ving": Affirmative, negative and interrogative forms, b. Time adverbs: "ago, last, yesterday, etc."
Consolidation and Revision
a. "While Sentences" in past continuous tense, b. Using "still, as well, too, also" in sentences.
a. Present Perfect Tense, "Have/has + V3": Affirmative, negative and interrogative forms, b.

Regular and Irregular verbs (Past Participle Forms), c. Time adverbs: "for, since, yet, just, already, never/ever, etc. "
a. Linking words with "although, though, despite (despite of), in spite of", b. Sentences with "As and since"
a. Past Perfect Tense: "Had + V3": Affirmative, negative and interrogative forms, b. Regular and Irregular verbs (Past Participle Forms), c. Time adverbs: "before, last, ago, etc."
a. Third Conditionals: "If ……., Subject+would have V3", b. Linking words with "because of, owing to, due to, as a result of, etc."
a. Tag Questions, b. Sentences with "until, afterwards, by, etc.", c. Reported Speech
Consolidation and Revision

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Professional Mathematics	3	3	3

Course content

Analytical and numerical solutions, matrix and matrix operations, vector, polynomial and number systems, error analysis, coordinate systems, coordinate systems, analytic analysis of the circle, solution of linear equations by numerical methods, solution of linear equation systems by numerical methods, curve fitting methods, interpolation methods, basic statistics.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Web Editor	3	3	3

Course content
Web editor basic tools, table operations, multimedia operations, links, text operations, frame operations, templates, library operations, form operations, interactive elements, layer operations, accessibility and site management.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Graphic Animation-II	3	3	4

Course content
Animation fundamentals, graphics, text operations, symbols, animation techniques, audio and video operations, screens, components, dynamic data, software optimization, publishing settings of animation files, actions panel, basic programming structures, objects, functions, audio and video operations, server sided operations.
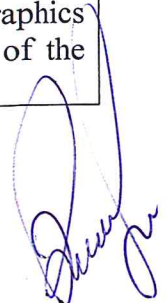
COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Internet Programming-I	4	3	6

Course content
Application software installation and testing, variables and constants, operators, decision control structures, loop control structures, user defined functions, ready functions, arrays and

objects, filing operations, web form applications, inter-page data transfer methods, database operations, XML and WEB services, AJAX, JSON

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Database and Management Contact	4	3	5

Course content
Database needs analysis, normalization, database tools to set up, to create tables and properties, to create and use query types, to create queries with related tables, use dml queries, database management, database security to ensure.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
İletişim	2	2	2

Course content
Definition and types of communication, basic communication concepts, importance of communication in terms of society and individual, communication types and comparisons, oral communication, verbal communication principles, verbal communication techniques and their applications, effects of verbal communication in daily life, written communication: types of writing, in-house writing types Special purpose articles such as general purpose business letters, forms and questionnaires, communication in professional life, application of communication techniques to professional groups, graphic communication, use of graphics and diagrams, communication using technological tools, interpreting the functions of the tools used, facilities provided by technological tools
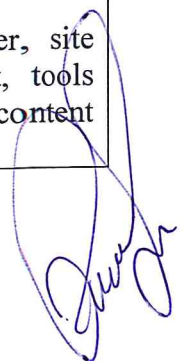
III.YARIYIL DERSLERİ

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Vocational Foreign Language-I	2	2	2

Course content

The appropriate time-verb relation, sentence elements in professional documents, mathematical operations in foreign language, flow chart terms in foreign languages

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Internet Programming-II	4	3	5

Course content

Software installations and publishing for 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

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Object Oriented Programming-I	4	3	5

Course content

Installation of necessary software for programming, a basic console and operating system application, fixed, variable and object use, operators use, decision control statements, loop control statements, user-defined functions, ready functions, file operations, class, field and method use, local and global references, arrays, multidimensional arrays, standard components, advanced components, database connectivity, database queries.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Content Management Systems	2	2	2

Course content

Installation of content management system, transferring the database to a server, site management, content management, component management, add-on management, tools management, theme management. Mambo, Joomla, Drupal tools and applications of content management systems.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Network Basics	2	2	2

Course content

Computer networks, Network Topologies, Network cables, Network addressing, Sharing and security, Network peripherals, Network communication systems, Network protocols.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Web Project Management	2	2	3

Course content

Web site requirements, web site design, web site publication preparation, web site publishing operations, web site security settings, web site backup operations, web site maintenance operations.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Quality and Assurance Standards	2	2	2

Course content

Standardization; development, definition, objectives. Quality and quality concepts, Quality and efficiency, Quality costs, Quality control concept, Total quality management, Quality assurance, Quality management principles, Professional standards; standards for the protection of automation devices against physical environmental factors, Standards of pressure, Standards of temperature.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Research Methods and Techniques	3	3	2

Course content

Data Collection and Analysis of Data According to the Principles of Scientific Research; Reporting the Results of the Study in Compliance with the Principles of Report Writing; Presentation of Research Topics, Datashow, Slide Machine, Internet (Web Page) etc. Use of Devices and Technologies; Introduction to Business Life; To be able to follow developments by researching innovations in computer field; Developing Self Confidence by Expressing Your Self in the Community.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Delphi Programming-I	4	3	6

Course content

Visual Programming concepts, Delphi IDE tool to set up and use, Interface creation (Form), Message boxes, Simple project file creation, recording and running, Component groups (Components), Standard component group elements, Information on form entries, scrollbar, panel, list box, description field, multiple choice and option box objects, Main menu design and submenus creation, popup menu navigation and connecting to objects, using prepared procedures with the action list object and creating new procedures, using objects from additional components group, option list box, grid object, using and linking with codes.
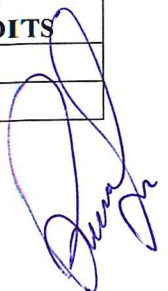
IV. YARIYIL DERSLERİ

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Vocational Foreign Language-II	2	2	2

Course content

To express code writing elements, translate message and error codes, search web browsers, translate data base concepts, translate graphics and multimedia concepts.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
System Analysis and Design	4	3	5

Course content

Students can select project for his / her field, analyze project subjects and working environment, present the obtained information and project, produce algorithm and flow chart for the project, establish the platform for the project, write code for the project, project the project, present the project, prepare the project installation package, Prepares report booklet for all stages of the project

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Object Oriented Programing-II	4	3	5

Course content

Setting up software for object-oriented programming, setting up console applications with basic expressions of programming language, object usage and operators, control objects and arrays, decision control statements, loop control statements, user defined functions, standard functions, component library, data structures, operating system objects, menu design and forms, database operations, interactive data objects.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Server Operating System	4	3	5

Course content

Server operating system, server operating system management, file system, (RAID) disk clustering systems, 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.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Open Source Operating System	2	2	3

Course content

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, basic network programs and network settings, internet connection, basic user and group operations , open source operating system editors, program installation and update, shell operations, file and directory sharing

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Delphi Programming-II	4	3	6

Course content

Form types and design of nested forms, Creating and using graphics and shapes with appropriate components, creating and using toolbars and components of its own, using SQL, making database applications, providing access to different database servers, developing internet software.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Business Administration	2	2	2

Course content

Concept of entrepreneurship, basic concepts of business and management, classification of enterprises, small business types, problems of small enterprises and solutions, establishment of small enterprises, management, production, marketing and financing in small enterprises.

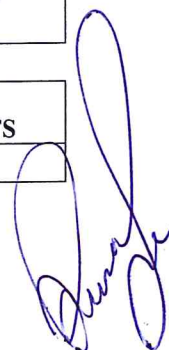| COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Job security	2	2	2

Course content

First aid training, first aid supplies, providing personal safety, ensuring the safety of employees, ensuring the security of the work environment.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Professional Ethics	2	2	2

Course content

Basic Concepts of Ethics, Ethical Principles of Ethics, Ethical Issues in Ethics, Responsibilities of Ethics, Ethical Standards, Public Sector Ethics, Responsibilities of Society's Demands and Behaviors, Ethical Issues in Businesses.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Computerized Control	3	2	2

Course content

Industrial computers, in-computer fast data measurement and control cards, signal processing and measurement modules, industrial communication, PC based communication control, remote data measurement and control modules, scattered data measurement and control systems.

COURSE NAME	HOUR	CREDIT	ECTS CREDITS
Environment and Protection	2	2	2

Course content

Classification of environmental pollution, measures to be taken, environmental protection laws, factors that play a role in environmental pollution, aesthetic damages, energy sources, thermal pollution pesticides, industrial wastes, domestic wastes, radioactive substances. Limits of toxic substances in the air in workplaces;

COURSE DESCRIPTION FORM

Course Code and Title: GİR-222 ENTREPRENEURSHIP						Name of the Program: Computer Programming	

Semester	Teaching Methods (ECTS)						CREDIT
	Theory	Appl.	Lab.	Project / Area Study	Other	Total	ECTS CREDIT
	2	0				2	3

Course Language	Turkish
Type of Course (Compulsory / Elective)	Compulsory / Elective
Prerequisites	No
Name of Lecturer (s)	
Groups / Classes	
Objectives of the Course	It is aimed that the students, who are intended to have the characteristics, knowledge and competencies to establish their own business, will have the necessary entrepreneurship features and gain the necessary equipment to develop them.
Teaching Methods and Techniques	Lecture, Presentation
Content of the course	This course will cover the conceptual framework of entrepreneurship, approaches, functions, process, entrepreneurship culture, local and international framework of entrepreneurship and entrepreneurship ethics.
Textbooks and / or Other Materials Required Entrepreneurship	Girişimcilik, Prof. Dr. Yılmaz ÜRPER Girişimcilik, MEGEP Girişimci Olabilirmiyim?, KOSGEB Yayınları Bir İş Fikri Bulmak ve Test Etmek, KOSGEB Yayınları Sorumlu Girişimcilik, KOSGEB Yayınları Şirket yapıları ve Kuruluş Aşamaları, KOSGEB Yayınları
Learning Outcomes of the Course	1. Will be able to question the entrepreneurship features of entrepreneurship. Compare the described activities with respect to the types of entrepreneurship. 2. Develops entrepreneurship characteristics by evaluating entrepreneurial characteristics in successful entrepreneurial stories. 3. Analyze the basic concepts of business plan. 4. Configures the career plan as an entrepreneur with the technical knowledge. Evaluates the skills and incentives for the development of entrepreneurship and makes recommendations.
Topics covered	Entrepreneurship, entrepreneurship, basic concepts Fundamentals of entrepreneurial thinking, Testing of entrepreneurial personality Entrepreneurship process / Business idea development and creativity / Creative problem solving techniques / Innovation Business plan concept and business plan elements (market research) Researching the market using primary and secondary sources, identifying customers, present and future needs Business plan concept and business plan elements (market research) Researching the market using primary and secondary sources, identifying customers, present and future needs Business plan concept and business plan elements (marketing plan) Examination of marketing mix within the marketing plan (product, price, distribution, promotion) Business plan concept and business plan elements (production (manufacturing / service) plan)

	Production planning Business plan concept and business plan elements (management plan) Human Resources Management Business plan concept and business plan elements (financial plan) Finding financial resources, planning investment, preparing financial statements and financial management elements Accounting (budget and cash flow) Business Plan Preparation and Presentation		
Contribution of the course to provide vocational training.	Mathematics and Basic Sciences Knowledge	Vocational Training Knowledgex	General Training Knowledge
		3	
	(If the course is related to more than one category, the total CREDIT of the course can be distributed among these categories.)		