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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TRD101 Turkish Language-I** | Program: Computer Programming |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 1 | 2 | 0 | 2 | 2 | 2 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Cem TOPAL | **Mail :** cemtopal@munzur.edu.tr**Web :** https://akademik.yok.gov.tr/AkademikArama/view/viewAuthor.jsp  |
| **Aims of Course** | It aims to show students the characteristics and rules of the Turkish Language with examples; to provide them with the skills and habits of expressing their feelings, thoughts, plans, impressions, observations, and experiences correctly and effectively in words and writing; to develop their vocabulary through written and spoken texts; to teach them the rules of correctly understanding the texts they read or the programs they listen to; and to develop their language skills, which are the basis of communication between individuals and masses.  |
| **Course Learning Outcomes and Competencies** | 1. Will be able to have general information about the concept of language.1.1. Definition and birth of language; culture, thought and communication.1.2. Understands the differences between written language and spoken language.2. Will be able to gain correct and planned writing skills.2.1. Learns the details of paper layout and paragraph information.2.2. Gains competence in written communication by doing writing studies.3. Will be able to have information about spelling rules and punctuation marks.3.1. Uses punctuation marks correctly in the text.3.2. Eliminates ambiguity in written communication by learning the details of spelling rules.4. Will be able to have general information about the rules of petition.4.1. Learns how to write a petition correctly.4.2. Applies the rules in official correspondence. |
| **Textbooks and /or Other Required Materials** | Images/visuals, slides, videos and lecture notes on the course content. |
| **Method of delivery of the course**  | Face to face / Online |
| **Teaching Methods and Techniques** | Explanation, Question-Answer, Discussion, Brainstorming, Individual Work, Team/Group Work |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
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| 1. **Midterm Exam**
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| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
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| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Definition and Function of Language |
| **2** | Languages/Birth of Language |
| **3** | Written Language and Spoken Language  |
| **4** | Paper Layout and Paragraph Information |
| **5** | Paragraph Plan |
| **6** | Writing and Writing Plan |
| **7** | Writing Practices |
| **8** | Midterm |
| **9** | Writing Rules |
| **10** | Writing Rules |
| **11** | Punctuation Marks |
| **12** | Punctuation Marks  |
| **13** | Petition |
| **14** | Writing Studies |
| **15** | Final exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **AIT101 Atatürk’s First and Revolution History-I** | Program: Computer Programming |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 1 | 2 | 0 | 2 | 2 | 2 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Adem KIZKAPAN | **Mail :** akizkapan@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/tibbi/Pages/akadro.aspx |
| **Aims of Course** | It aims to let the student who attends the courses to acquire the ability of classification, description, explanation, analysis of the current social and individual problems in Turkey by taking rationality and science, norms of modernity into account with respect to the Kemalist thought and the Turkish Revolution |
| **Course Learning Outcomes and Competencies** | 1.Have knowledge about the developments in European History, and Ottoman modernization2. Have knowledge about the causes of the Collapse of the Ottoman Empire3. Have knowledge about the First World War4. Have knowledge about the Turkish National Struggle5. Have knowledge about the founding philosophy of the Republic of Turkey. |
| **Textbooks and /or Other Required Materials** | Images/visuals, slides, videos and lecture notes on the course content. |
| **Method of delivery of the course**  | Face to face / Online |
| **Teaching Methods and Techniques** | Explanation, Question-Answer |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
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| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
|  |
| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Concepts Related to the Revolution |
| **2** | Developments in Europe  |
| **3** | Ottoman Political Life |
| **4** | Political Developments Before World War I  |
| **5** | World War I and the Ottoman  |
| **6** | World War I and the Ottoman |
| **7** | National Struggle: Preparation Period |
| **8** | Midterm |
| **9** | Mustafa Kemal Pasha's Passage to Anatolia  |
| **10** | Congress Period  |
| **11** | Opening of the Turkish Grand National Assembly |
| **12** | National Struggle: Period of Wars |
| **13** | Mudanya Armistice |
| **14** | Treaty of Lausanne |
| **15** | Final exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **YDI101 English-I** | Program: Computer Programming |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 1 | 2 | 0 | 2 | 2 | 2 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Suat ARSLANOĞLU | **Mail :** suatarslanoglu@**munzur**.edu.tr**Web :** http://munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/yabancıKultur/Pages/akadro\_en.aspx  |
| **Aims of Course** | To provide students with basic English knowledge and to enable them to use it in daily life.  |
| **Course Learning Outcomes and Competencies** | 1. Will be able to introduce himself, his environment and his family with basic level of English.1.1. Introduces himself verbally.1.2. Expresses himself in writing.2. Will be able to speak English with anyone at a basic level.2.1. Speaks at A2 level.2.2. Understands what he hears at A2 level.3. Will be able to introduce the objects around him and make comparisons.3.1. Makes definitions at A2 level.3.2. Makes comparisons at A2 level.4. Will be able to express his needs and desires at a basic level.4.1. Requests his desires at a basic level in English.4.2. Expresses himself in written and oral form.5. Will be able to talk about current and past events and write with simple sentence structures.5.1. Expresses himself in written and oral form.5.2. Understands what is said at a basic level. |
| **Textbooks and /or Other Required Materials** | Hutchinson,T. TABOR, C.QUINTANA, J. EADIE, K. English For Life. Oxford University PressAzar, B. Basic English Grammar |
| **Method of delivery of the course**  | Face to face / Online  |
| **Teaching Methods and Techniques** | Explanation, Question-Answer, Presentation  |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
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| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
|  |
| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Introduction to Course  |
| **2** | Countries & Nationalities  |
| **3** | Present Simple Tense  |
| **4** | Present Simple Tense (Negatives& questions)  |
| **5** | Common verb phrases |
| **6** | Wh- question words  |
| **7** | Possessive -sFamily Members  |
| **8** | Midterm |
| **9** | Around Home (household objects) |
| **10** | Singular/Plural Nounsa/ an/ the |
| **11** | This/that/these/those  |
| **12** | Colours and common adjectives  |
| **13** | Can/ Can’t  |
| **14** | Present Continuous Tense  |
| **15** | Final exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name: TBM153 MATEMATİK I** | Program: Computer Programming |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ACTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 1 | 3 | 0 | 3 | 3 | 4 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Muhlis ÇETİN | **Mail:** muhliscetin@munzur.edu.tr**Web:** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/muhasebeVergi/Pages/akadro.aspx |
| **Aims of Course** | To provide students with sufficient mathematical knowledge to solve the problems they encounter and to develop students' ability to think analytically and produce solutions to problems. |
| **Course Learning Outcomes and Competencies** | 1. Explain numbers and number sets. 1.1. Explains the positive natural number power of a natural number and shows the accuracy of the properties of exponential expressions. 1.2. Explains the concept of prime numbers and the fact that numbers are relatively prime with examples, divides a natural number into its prime factors and finds the number of its positive divisors.1.3. Performs addition, subtraction, multiplication and division operations on the set of integers and specifies the properties of addition and multiplication operations.2. Demonstrates the properties of operations in modular arithmetic and will be able to perform operations.2.1. Explains the concept of module with examples, specifies the concept of remainder class (equivalence class) and the set of remainder classes (Z/m set) according to division with integers.2.2. Performs addition and multiplication operations on the set Z/m and specifies their properties.3. Will be able to explain the absolute value of a real number and state the properties related to absolute value.31. Knows the definition and properties of absolute value.3.2. Solves problems using the properties of absolute value.4. Will be able to explain square root and exponential expressions, state their properties and apply them.4.1. Performs four operations on square root numbers.4.2. Solves problems using the properties of exponents.4.3. The properties of multiplication, division and powers of exponents are examined algebraically.5. Explain ratio and proportion.5.1. Shows the properties of proportion and solves problems related to daily life.5.2. Reminds about ratio, proportion and properties of proportion.6. Define functions6.1. Finds the intervals in which the given function is defined and undefined.6.2. Finds the inverse of the given function.6.3. Defines the resultant function and explains its properties. |
| **Textbooks and /or Other Required Materials** | General Mathematics (M.BALCI), TYT-AYT Exam Entry Resources |
| **Method of delivery of the course**  | Face to face, Online  |
| **Teaching Methods and Techniques** | Explanation, question-answer, presentation, practice, analysis |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
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| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | NUMBERS |
| **2** | Decimal numbers |
| **3** | Rational Numbers |
| **4** | Exponents |
| **5** | radical numbers |
| **6** | Identities and Factorization |
| **7** | Absolute Value |
| **8** | midterm exam |
| **9** | simple inequality |
| **10** | ratio proportion |
| **11** | Problems |
| **12** | Problems |
| **13** | graphics problems |
| **14** | Functions |
| **15** | Final exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TTB101 Programming Fundamentals** | Program: Computer Programming |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 1 | 2 | 2 | 4 | 3 | 6 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Kemal YAĞCI | **E-posta :** kemalyagci@munzur.edu.tr**Web:** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | This course aims to provide competencies related to programming fundamentals. |
| **Course Learning Outcomes and Competencies** | 1. Will be able to develop algorithms. 1.1 Will be able to write algorithms. 1.2 Will be able to draw flowcharts.2. Will be able to use decision structures and loops. 2.1 Will be able to use the if-else statement. 2.2 Will be able to create loops. 2.3 Will be able to use comparison operators.3. Will be able to use arrays. 3.1 Will be able to use single-dimensional arrays. 3.2 Will be able to use multi-dimensional arrays.4. Will be able to use subroutines. 4.1 Will be able to use procedures. 4.2 Will be able to use functions and recursive functions. |
| **Textbooks and /or Other Required Materials** | - Visuals, slides, videos and lecture notes regarding the course content. |
| **Method of delivery of the course**  | Face to face / Online |
| **Teaching Methods and Techniques** | Explanation, Question-Answer, Discussion, Brainstorming, Individual Work, Team/Group Work |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
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| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Algorithm |
| **2** | Flowchart |
| **3** | Programming Tools, Variables, and Constants |
| **4** | Input and Output Operations, Operators |
| **5** | Decision Structures |
| **6** | Decision Structures |
| **7** | Loop Controls |
| **8** | Midterm Exam |
| **9** | One-Dimensional Arrays |
| **10** | One-Dimensional Arrays |
| **11** | Multidimensional Arrays |
| **12** | Subroutines |
| **13** | Subroutines |
| **14** | Sequential Files |
| **15** | Final Exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TTB103 Basics of Web Design** | Program: Computer Programming |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 1 | 3 | 0 | 3 | 3 | 3 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Asst. Prof. Yücel BÜRHAN | **E-posta :** yucelburhan@munzur.edu.tr**Web:** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | Be able to prepare to create a WEB page, be able to use basic tags, be able to format texts using text formatting tags, be able to create links between pages, be able to create tables for page design. |
| **Course Learning Outcomes and Competencies** | 1. Can use basic operations for web pages using HTML codes. 1.1. Knows the basic concepts of web design. 1.2. Knows the internet terms domain, hosting, web server, client, HTTP, FTP, and CSS.2. Can use advanced features for web pages using HTML codes. 2.1. Knows the basic HTML tags. 2.2. Knows and uses the basic HTML tags.3. Can use style sheet (CSS) configuration. 3.1. Knows the basic CSS tags. 3.2. Knows and uses the basic CSS tags.4. Can use web templates. 4.1. Knows how to create simple web templates using HTML and CSS codes. 4.2. Knows how to create different web designs using CSS codes.5. Can use advanced features for web pages using HTML codes. 5.1. Knows how to create menus and directions. 5.2. Knows how to create forms. |
| **Textbooks and /or Other Required Materials** | - Web Design Fundamentals, Musa ÇİÇEK, Kodlab Publishing House, 488 pages- CSS Lecture Notes: http://fatihhayrioglu.com/css-dersleri/- CSS Book: http://fatihhayrioglu.com/static/dokumanlar/CSS\_GIRIS.zip |
| **Method of delivery of the course**  | Face to face  |
| **Teaching Methods and Techniques** | Explanation, Question-Answer, Discussion, Brainstorming, Individual Work, Team/Group Work |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
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| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Internet and Web Definitions, HTML Basic Tags |
| **2** | HTML Basic Tags, Text and Appearance Tags |
| **3** | Text and Appearance Tags, Creating Links (Hyperlinks) |
| **4** | Creating Links (Hyperlinks), Table Operations |
| **5** | Table Operations, Forms |
| **6** | Forms |
| **7** | Frames |
| **8** | Midterm Exam |
| **9** | Multimedia Tools |
| **10** | Style Template (CSS) Fundamentals |
| **11** | Style Template (CSS) Properties |
| **12** | Style Template (CSS) Properties, Style Template (CSS) Menu Operations |
| **13** | Style Template (CSS) Menu Operations |
| **14** | Browser Issues and Solutions |
| **15** | Final Exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TTB107 Graphıc And Anımatıon I** | Program: Computer Programmıng |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 1 | 3 | 0 | 3 | 3 | 4 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Enver YAZĞILI | **Mail :**  enveryazgili@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** |  This course in desktop and web environments frequently encountered in the literature çizimlerini graphics with Photoshop with the widespread use of learning aims |
| **Course Learning Outcomes and Competencies** |

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| Resolution, pixels and learn the basics about file formats |
| To understand how to use Photoshop program and |
| Slicing in Photoshop hotspots, buttons and pop-up menus |
| On the image in Photoshop and working with filters |

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| **Textbooks and /or Other Required Materials** | Instructor’s notes |
| **Method of delivery of the course**  | Face to face, Online  |
| **Teaching Methods and Techniques** | Explanation, question-answer, presentation, practice, analysis |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
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| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Resolution |
| **2** | Color Images |
| **3** | Photos, Audio File Formats |
| **4** | Video File Formats |
| **5** | Photoshop Installation and Operating Environment |
| **6** | Photoshop Menus |
| **7** | Tools Panel |
| **8** | Midterm Exam |
| **9** | Working with Photoshop filters |
| **10** | Working with menus in Photoshop |
| **11** | Layer Operations - Adding Text and Merge |
| **12** | Art work on |
| **13** | Buttons and animation work |
| **14** | Optimization - No-work and Animated GIF banner |
| **15** | Final exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code & Name: TTB109 Software Installation and Management** | Program: Computer Programmıng |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 1 | 2 | 0 | 2 | 2 | 4 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Kürşat ARSLAN | **Mail :**  kursatarslan@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | To enable students to install software on different platforms, manage configuration files and gain the ability to configure basic system settings. |
| **Course Learning Outcomes and Competencies** | 1. Applies software installation steps on different operating systems.2. Installs and removes software using package managers.3. Starts, stops and configures services.4. Creates automatic installation scripts.5. Performs software update and backup operations. |
| **Textbooks and /or Other Required Materials** | Instructor’s notes |
| **Method of delivery of the course**  | Face to face, Online  |
| **Teaching Methods and Techniques** | Explanation, question-answer, presentation, practice, analysis |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
|  |
| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Introduction and basic concepts |
| **2** | Software types and licenses |
| **3** | Software installation on Windows operating system |
| **4** | Software installation on Linux operating system |
| **5** | Software management with package managers |
| **6** | Service installation and management |
| **7** | Driver and firmware installation |
| **8** | Midterm Exam |
| **9** | Installation of database software |
| **10** | Automatic installation scripts (Batch, Bash) |
| **11** | Update and version management |
| **12** | Backup operations |
| **13** | Installation problems and solution methods |
| **14** | General repetition and project presentations |
| **15** | Final Exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code & Name: TTB105 Office Programs** | Program: Computer Programmıng |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 1 | 2 | 2 | 4 | 3 | 6 | Turkish | Compulsory |
| **Prerequisites of Course** | Having basic computer usage knowledge. |
| **Course Instructor** | Lecturer Kemal YAĞCI | **Mail :**  kemalyagci@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | This course aims to equip students with the necessary competencies to use office programs needed in every branch of information technologies. |
| **Course Learning Outcomes and Competencies** | 1. Will be able to use word processing programs. 1.1 Will be able to use the menus of word processing programs. 1.2 Will be able to insert objects.2. Will be able to use spreadsheet programs. 2.1 Will be able to use menus. 2.2 Will be able to create calculation formulas and perform graphing operations.3. Will be able to use presentation preparation programs. 3.1 Will be able to use menus. 3.2 Will be able to insert objects.4. Will be able to use internet and email management programs. 4.1 Will be able to open and manage email accounts. 4.2 Will be able to use internet search tools effectively. |
| **Textbooks and /or Other Required Materials** | A’dan Z’ye Excel 2007- Erkan Kilmen. Office 2010 Gökalp Harman |
| **Method of delivery of the course**  | Face to face |
| **Teaching Methods and Techniques** | Explanation, question-answer, presentation, practice, analysis |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
|  |
| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Document Operations, Formatting Operations |
| **2** | Document Control, Printing, Table Operations |
| **3** | Object Operations, Advanced Features |
| **4** | Macros, Customization |
| **5** | Workspace, Data Entry, Formatting Operations |
| **6** | Formulas, Functions |
| **7** | Graphing Operations, Data Analysis |
| **8** | Midterm Exam |
| **9** | Data Analysis |
| **10** | Printing, Macros, Customization |
| **11** | Workspace, Slide Operations, Design |
| **12** | Slide Objects, Show Settings, |
| **13** | Printing, Customization |
| **14** | Internet Concepts |
| **15** | Final Exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TRD102 Turkish Language-II** | Program: Computer Programming |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 2 | 2 | 0 | 2 | 2 | 2 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Cem TOPAL | **Mail :** cemtopal@munzur.edu.tr**Web :** https://akademik.yok.gov.tr/AkademikArama/AkademisyenGorevOgrenimBilgileri?islem=direct&sira=\_D2bDdARDMCOgjHVGzFVZw&authorId=2EA98971BC4A782B |
| **Aims of Course** | To teach and/or remind the importance and subtleties of Turkish and to reinforce this with correct Turkish and its resources. In addition, to ensure that students use Turkish more consciously in daily conversations and correspondence throughout the course. |
| **Course Learning Outcomes and Competencies** | 1. Will be able to learn information for correct and proper expression.1.1. Knows the importance of written expression and writes compositions.1.2. Knows the rules of communication in oral expression.2. Will be able to comprehend Turkish grammar.2.1. Knows and applies sound events.2.2. Understands morphology (root-stem-suffixes).3. Will be able to analyze words in terms of their structure.3.1. Develops and changes words.3.2. Derives new words.4. Uses the principles and techniques of speaking and discussion.4.1. Applies Turkish spelling rules in speaking and discussion.4.2. Can notice and correct expression errors in oral and written expressions. |
| **Textbooks and /or Other Required Materials** | Zeynep Korkmaz ve ark., Türk Dili ve Kompozisyon Bilgileri, 6. Baskı, Ankara: Yargı Yayınevi, 2003.Yusuf Çotuksöken, Türk Dili, c. I-II, Papatya yay., 2003.Akın Önen, Türkçeyi Türkçe Konuşmak (Diksiyon - Spikerlik - Etkili Konuşma), İnkılap Yayınevi, İstanbul, 2007.Mustafa Durmuş, Türk Dili El Kitabı, Grafiker Yay., 2009.Muharrem Ergin, Türk Dil Bilgisi, Bayrak Basım Yayım Tanıtım, İstanbul,İbrahim Delice, Türkçe Sözdizimi, Kitabevi Yay., 2007.  |
| **Method of delivery of the course**  | Face to face / Online |
| **Teaching Methods and Techniques** | Explanation, Question-Answer, Discussion, Brainstorming, Individual Work, Team/Group Work |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
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| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
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| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Punctuation marks (Period, comma, semicolon, colon, exclamation point ...) |
| **2** | Spelling rules (Writing of capital letters, numbers, compound words) |
| **3** | Spelling rules (Writing of idioms, reduplications, loanwords and foreign proper names) |
| **4** | Spelling rules (Writing of abbreviations and some suffixes) |
| **5** | Composition (definition, purpose, methods of being successful in composition) |
| **6** | Methods in writing composition (formation of supporting and main ideas, planning) |
| **7** | Methods in writing composition (paragraph creation, methods of developing thought in paragraph) |
| **8** |  Midterm Exam |
| **9** | Expression characteristics |
| **10** | Expression characteristics |
| **11** | Expression disorders |
| **12** | Types of expression (oral expression) |
| **13** | Types of expression (written expression: resume, petition...) |
| **14** | Types of expression (written expression: story, novel, theater, poetry...) |
| **15** | Final exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **AIT102 Atatürk’s First and Revolution History-II** | Program: Computer Programming |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 2 | 2 | 0 | 2 | 2 | 2 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Adem KIZKAPAN | **Mail :** akizkapan@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/tibbi/Pages/akadro.aspx  |
| **Aims of Course** | Understanding the Turkish National Struggle and Atatürk's Principles and Revolutions  |
| **Course Learning Outcomes and Competencies** | 1.Have knowledge about Ataturk’s reforms2.Have knowledge about the Turkish Foreign Policy in Ataturk’s period3.Have knowledge about Ataturk’s principles4.Have basic level of knowledge about the political developments in Turkey and the world during and after the Second World War. |
| **Textbooks and /or Other Required Materials** | Images/visuals, slides, videos and lecture notes on the course content.Speech; Publication of the Ministry of Culture and Tourism of the Republic of TurkeyAtaturk's Principles and History of Revolution I-II, Council of Higher Education, Ankara, 1986. |
| **Method of delivery of the course**  | Face to face / Online |
| **Teaching Methods and Techniques** | Explanation, Question-Answer, Presentation  |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
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| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
|  |
| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Revolutionary Movements in the Political Field |
| **2** | Revolutionary Movements in the Legal Field |
| **3** | Revolutionary Movements in the Education and Culture Field |
| **4** | Regulation of Social Life, Developments in the Economic Field, Health Services, Turkish Foreign Policy in the Atatürk Period |
| **5** | Principles on which the Turkish Revolution is based and the characteristics of the Turkish Revolution |
| **6** | Republicanism, Nationalism and Populism |
| **7** | Secularism |
| **8** | Midterm |
| **9** | Statism, Revolutionaryism |
| **10** | National Sovereignty, National Independence |
| **11** | National Unity and Solidarity, Territorial Integrity, Peacemaking |
| **12** | Scientificity, Rationalism, Modernity and Westernization, Humanity and Love of Humanity, Characteristics of the Turkish Revolution  |
| **13** | Death of Atatürk, Aspects at Home and Abroad |
| **14** | Developments After World War II |
| **15** | Final exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **YBD102 English-II** | Program: Computer Programming |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 2 | 2 | 0 | 2 | 2 | 2 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Suat ARSLANOĞLU | **Mail :** suatarslanoglu@munzur.edu.tr**Web :** http://munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/yabancıKultur/Pages/akadro\_en.aspx  |
| **Aims of Course** | To provide students with knowledge of English grammar and to enable them to use it in daily life. |
| **Course Learning Outcomes and Competencies** | 1. Will be able to learn the tenses used in English.1.1. Knows that Present Continuous Tense will be used in the present tense.1.2. Learns that Past Tense will be used in the past tense.2. Will be able to make dialogues in English and use the tenses he/she learned.2.1. Learns formulaic words in dialogues.2.2. Learns dialogues on dating, travel, accommodation and health.3. Will be able to read English texts.3.1. Reads and comments on English stories.3.2. Reads English newspaper articles. Translates them into Turkish. |
| **Textbooks and /or Other Required Materials** | Hutchinson,T. TABOR, C.QUINTANA, J. EADIE, K. English For Life. Oxford University PressAzar, B. Basic English Grammar |
| **Method of delivery of the course**  | Face to face / Online  |
| **Teaching Methods and Techniques** | Explanation, Question-Answer, Presentation  |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
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| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
|  |
| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Simple Present Tense |
| **2** | Present Continuous Tense |
| **3** | Simple Past Tense |
| **4** | Past Continuous Tense |
| **5** | Present Perfect Tense |
| **6** | Past Perfect Tense |
| **7** | Future Tense |
| **8** | Midterm Exam |
| **9** | Adjectives |
| **10** | Adverbs |
| **11** | Making Suggestions, Tag Questions |
| **12** | Translation from English to Turkish, from Turkish to English |
| **13** | Reading, analyzing, interpreting, and evaluating English texts |
| **14** | General Evaluation |
| **15** | Final exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **MAT154 Vocational Mathematics** | Program: Computer Programming |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 2 | 3 | 0 | 3 | 3 | 5 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Muhlis ÇETİN | **Mail :** muhliscetin@munzur.edu.tr**Web :**  https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/muhasebeVergi/Pages/akadro.aspx |
| **Aims of Course** | To provide students with the ability to apply the mathematical knowledge and skills required for their profession to their work. |
| **Course Learning Outcomes and Competencies** | 1. Can place geometric shapes on the coordinate plane. 1.1. Can draw coordinates. 1.2. Can draw geometric shapes according to coordinates.2. Calculates function values ​​and draws their graphs. 2.1. Knows how to write and calculate functions. 2.2. Can draw graphs and calculate existing ones.3. Can calculate length, area, and volume in two- and three-dimensional geometric shapes. 3.1. Can calculate geometric shapes. 3.2. Knows how to calculate the measurements of geometric units.4. Can use functions and graphs. 4.1. Can explain the differences between polynomial, exponential, and quadratic functions. 4.2. Can explain the differences between trigonometric and specially defined function graphs.5. Can use graphs. 5.1. Knows how to draw graphs appropriate to given values. 5.2. Can convert ready-made graphs to data.6. Can use matrices. 6.1. Can solve systems of linear equations using matrices. 6.2. Can use matrices in calculations.7. Can use computers for mathematical calculations and graphing.  7.1. Can perform mathematical calculations on a computer. 7.2. Can draw graphs on a computer. |
| **Textbooks and /or Other Required Materials** | Hutchinson,T. TABOR, C.QUINTANA, J. EADIE, K. English For Life. Oxford University PressAzar, B. Basic English Grammar |
| **Method of delivery of the course**  | Face to face / Online  |
| **Teaching Methods and Techniques** | Explanation, Question-Answer, Presentation  |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
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| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Analytical and Numerical Solutions |
| **2** | Matrices |
| **3** | Error Analysis |
| **4** | Systems of Equations and Numerical Solutions of Linear Equation Systems |
| **5** | Numerical Solutions of Linear Equation Systems |
| **6** | Numerical Solutions of Linear Equation Systems |
| **7** | Curve Fitting Methods |
| **8** | Midterm Exam |
| **9** | Interpolation Techniques |
| **10** | Geometric Applications of Polygons, Angles, Circles, and Circulars |
| **11** | Geometric Objects |
| **12** | Coordinate Systems |
| **13** | Basic Trigonometry |
| **14** | Trigonometric Functions |
| **15** | Final Exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TTB108 Web Editor** | Program: Computer Programming |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 2 | 3 | 0 | 3 | 3 | 3 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Asst. Prof. Yücel BÜRHAN | **Mail :** yucelburhan@munzur.edu.tr**Web :**  https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | - You will be taught how to use Dreamweaver, the most widely used web editor today, as well as how to create forms, design templates, and develop all the tools needed for website development.- You will be taught how to design web pages using the web editor. |
| **Course Learning Outcomes and Competencies** | 1. Can use basic tools.1.1. Recognizes and knows the standard toolbars of Dreamweaver.1.2. Recognizes and knows the menus and tabs of Dreamweaver.2. Can use all table operations.2.1. Knows how to add tables to web pages and create templates.2.2. Knows how to configure the layout settings of table properties.3. Can use multimedia operations.3.1. Knows how to add multimedia, video, images, animations, etc.3.2. Knows how to add and process scripts.4. Can use link combinations.4.1. Knows how to create hyperlinks.4.2. Knows how to add links to objects.4.2. Knows how to create in-page hyperlinks.5. Can use the code screen.5.1. Knows how to write code in the code section.5.2. Knows how to write sequential code in the code section according to the order. |
| **Textbooks and /or Other Required Materials** | Dreamweaver 8 bookAdobe Dreamweaver CS6, Osman Gürkan, Nirvana Publications / Information Technologies Series, |
| **Method of delivery of the course**  | Face to face  |
| **Teaching Methods and Techniques** | Lectures, problem solving, laboratory work, question-answer, and group work methods will be applied. |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
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| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | WEB Editor Basic Tools |
| **2** | Text Operations |
| **3** | Table Operations |
| **4** | Multimedia Operations |
| **5** | Multimedia Operations |
| **6** | Links |
| **7** | Frame Operations |
| **8** | Midterm Exam |
| **9** | Templates |
| **10** | Library Operations |
| **11** | Form Operations |
| **12** | Interactive Elements |
| **13** | Layer Operations |
| **14** | Accessibility and Site Management |
| **15** | Final exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TTB104 Graphıc And Anımatıon II** | Program: Computer Programmıng |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 1 | 3 | 0 | 3 | 3 | 4 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Enver YAZĞILI | **Mail :**  enveryazgili@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | This course in desktop and web environments frequently encountered in the literature, graphic illustrations and animations in Adobe Animate with the widespread use of learning with the program aims to. |
| **Course Learning Outcomes and Competencies** |

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| Adobe Animate program and learn applications |
| Motion Tween with Flash program and learn how to create animation |
| Learn how to create buttons with Adobe Animate program |
| Adobe Animate Actionscript applications in the program to make |

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| **Textbooks and /or Other Required Materials** | Instructor’s notes |
| **Method of delivery of the course**  | Face to face, Online  |
| **Teaching Methods and Techniques** | Explanation, question-answer, presentation, practice, analysis |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
|  |
| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | basic Information |
| **2** | Introduction to Adobe Animate |
| **3** | Tween me of Uighurs |
| **4** | Tween me of Uighurs |
| **5** | Masking animation |
| **6** | Masking animation |
| **7** | Guide with Adobe Animate animation |
| **8** | Midterm Exam |
| **9** | Adobe Animate Symbols |
| **10** | Adobe Animate Symbols |
| **11** | Method with Adobe Animate Animation with Motion Guide App |
| **12** | Method with Adobe Animate Animation with Motion Guide App |
| **13** | Adobe Animate Animation app |
| **14** | Adobe Animate Animation app |
| **15** | Final exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TTB102 İnternet Programming** | Program: Computer Programmıng |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 1 | 2 | 2 | 4 | 3 | 6 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Asst. Prof. Yücel BÜRHAN | **Mail :**  yucelburhan@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | This course, which will provide the fundamental programming knowledge necessary for creating a website, will examine the technologies inherent in the Internet, and particularly the web, as well as theoretical and practical approaches to these technologies. Beginning with web design principles, the course will cover the artistic foundation of design, color, and typography. Then, after discussing the birth and development of HTML, the utilities used, and basic document structure, it will introduce HTML commands. After five weeks of HTML, the course will move on to the technologies used with HTML, providing basic information on DHTML, CSS, and VBScript. The final five weeks will cover ASP, a common technology used for dynamic web pages. The ASP section will begin with basic features and installation, then continue with programming structure, commands, and objects, concluding with database operations. |
| **Course Learning Outcomes and Competencies** | 1. The student can use web design principles.1.1. Knows WEB control commands.1.2. Knows basic internet commands.1.3. Knows basic HTML commands.2. Can use basic topics in DHTML, CSS, and VBScript.2.1. Knows DHTML codes.2.2. Knows CSS codes.2.3. Knows VB Script codes.3. Can use basic ASP features, programming structure, and commands.3.1. Knows commonly used codes in ASP.3.2. Knows basic ASP features.3.3. Knows ASP Host features.4. Can use simple input-output operations, looping, and decision-making structures.4.1. Knows input-output units.4.2. Knows ASP control objects.5. Can use Access and SQL databases and the features of the SQL query language.5.1. Knows Access and SQL databases.5.2. Knows basic SQL code. |
| **Textbooks and /or Other Required Materials** | INTERNET PROGRAMMING 1 - Ebubekir YAŞAR - Turgut ÖZSEVEN 1. Web Page Design with Dreamweaver 4, Yüce Information Systems, Ankara 2003. 2. HTML, DHTML, and Java Script, Yüce Information Systems, Ankara 2003. 3. HTML 4, Molly E. Holzschlog, Translated by Ali Halaç, Sistem Publishing, Istanbul 2000. 4. The Web?Internet Programming I, e-course notes1. http://www.geocities.com/SoHo/Studios/9594/renk.htm HTML 2. http://www.webteknikleri.com/HTML/ 3. http://www.pcakademi.com/html/html\_html\_diline\_giris.asp4. http://www.aspindir.com |
| **Method of delivery of the course**  | Face to face |
| **Teaching Methods and Techniques** | Lectures, Presentations, Website Creation, Online Work |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
|  |
| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | 1. Application Software Installation and Testing |
| **2** | 2. Variables, Constants, and Operators |
| **3** | 3. Decision Control Structures |
| **4** | 4. Loop Control Structures |
| **5** | 5. User-Defined Functions |
| **6** | 6. Built-in Functions |
| **7** | 7. Arrays and Objects |
| **8** | 8. Midterm Exam |
| **9** | 9. Filing Operations |
| **10** | 10. WEB Form Applications |
| **11** | 11. Inter-Page Data Transfer Methods |
| **12** | 12. Database Operations-1 |
| **13** | 13. Database Operations-2 |
| **14** | 14. XML and WEB Services-1 |
| **15** | 15. Final Exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TTB106 Database Management** **Systems** | Program: Computer Programmıng |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 1 | 2 | 2 | 4 | 3 | 5 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Kemal YAĞCI | **Mail :** kemalyagci@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | With this course, the student will gain the competencies to design, create, query, manage and configure database security settings. |
| **Course Learning Outcomes and Competencies** | 1. Will be able to design a database.1.1 Will be able to create a database design scheme using E-R diagrams.1.2 Will be able to make the necessary associations for database design.2. Will be able to create the database.2.1 Will be able to create a database using Structured Query Language.2.2 Will be able to apply normalization rules to the database they created.3. Will be able to query the database.3.1 Will be able to query the database they created.3.2 Will be able to add, delete, and update records.4. Will be able to manage the database and configure security settings.4.1 Will be able to add, delete, grant permissions, and configure security settings on the database through database management systems.4.2 Will be able to perform database backups and database optimization through database management systems. |
| **Textbooks and /or Other Required Materials** | Veritabanı yönetim sistemleri 1 Turgut Özseven, Veritabanı yönetim sistemleri 2 Turgut Özseven |
| **Method of delivery of the course**  | Face to face |
| **Teaching Methods and Techniques** | Lectures, Presentations, Application |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
|  |
| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Curriculum |
| **2** | Database Needs Analysis |
| **3** | Normalization |
| **4** | Normalization |
| **5** | Installing Database Tools |
| **6** | Creating Tables and Determining Their Properties |
| **7** | Creating Queries and Using Their Types |
| **8** | Creating Queries and Using Their Types |
| **9** | Midterm Exam |
| **10** | Preparing Queries with Related Tables |
| **11** | Preparing Queries with Related Tables |
| **12** | Preparing Queries with Related Tables |
| **13** | Using DML Queries |
| **14** | Administering the Database |
| **15** | Ensuring Database Security |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TTB201 Professional Foreign Language I** | Program: Computer Programmıng |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 3 | 2 | 0 | 2 | 2 | 2 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Kürşat ARSLAN | **Mail :**  kursatarslan@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | Students will be able to recognize basic English terms and phrases used in the field of informatics, understand technical texts and use professional English effectively. |
| **Course Learning Outcomes and Competencies** | • Gains basic level of professional English vocabulary.• Can understand technical documents and user guides.• Can interpret error messages and English commands.• Can follow English content of computer software.• Can conduct professional e-mail correspondence. |
| **Textbooks and /or Other Required Materials** | Instructor’s notes |
| **Method of delivery of the course**  | Face to face, Online  |
| **Teaching Methods and Techniques** | Explanation, question-answer, presentation, practice, analysis |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
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| 1. **Midterm Exam**
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| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
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| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Introduction – An overview of professional English |
| **2** | Computer hardware terms |
| **3** | Software and programming terms |
| **4** | Internet and web technologies |
| **5** | Command line and error messages |
| **6** | Reading technical documentation |
| **7** | Email and correspondence language |
| **8** | Midterm Exam |
| **9** | User manual translation studies |
| **10** | Program interfaces and menus |
| **11** | Open source projects and GitHub |
| **12** | Job postings and resume preparation |
| **13** | Professional dialogues and speaking practice |
| **14** | General repetition and applications |
| **15** | Final exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TTB205 Internet Programming II** | Program: Computer Programming |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 3 | 2 | 2 | 4 | 3 | 5 | Türkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Asst. Prof. Yücel BÜRHAN | **Mail :**  yucelburhan@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | Students will be provided with the skills to learn dynamic web programming techniques using the ASP.NET language, to develop server-side web applications, to implement file and session management applications with the ASP.NET language, to understand the SQL database and its use with ASP.NET, and to write web programs that can work in the internet environment and use databases and web services. |
| **Course Learning Outcomes and Competencies** | 1. Can use the basic concepts of Internet Programming and dynamic web programming languages.1.1. Knows the structure of the ASP.NET programming language.1.2. Knows the features of programming languages ​​and their differences from other languages.2. Can use variable structures with the ASP.NET language.2.1. Knows data types and operators.2.2. Knows variable types.3. Can use simple input-output operations, loops, and decision-making structures.3.1. Knows how to create loops.3.2. Knows decision-making structures.4. Knows how to use databases.4.1. Knows the features of the SQL database and the SQL query language.4.2. Knows the features of the SQL database and the SQL query language.5. Can use website creation and testing methods.5.1. Knows how to create web pages using functions and objects in .NET systems.5.2. Knows how to create a web page using basic web programming language commands.5.3. Knows how to install and test the software required for web-based programming.5.4. Knows how to use and manage web services. |
| **Textbooks and /or Other Required Materials** | 1. INTERNET PROGRAMMING II - Ebubekir YAŞAR - Turgut ÖZSEVEN2. ASP.NET 2005 book, Yüksel İnan, Nihat DEMİRLİ, Palme Top Brains, Palme Publishing, IstanbulInternet Programming II, e-course notes1. http://www.geocities.com/SoHo/Studios/9594/renk.htm HTML 2.http://www.webteknikleri.com/HTML/ 3. http://www.pcakademi.com/html/html\_html\_diline\_giris.asp4. http://www.aspindir.com |
| **Method of delivery of the course**  | Face to face |
| **Teaching Methods and Techniques** | Lectures, problem solving, laboratory work, question-answer, and group work methods will be applied. |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
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| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
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| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Application Software Installation and Testing |
| **2** | Variables and Constants, Operators |
| **3** | Decision Control Structures |
| **4** | Loop Control Structures |
| **5** | User-Defined Functions |
| **6** | Built-in Functions |
| **7** | Arrays and Objects |
| **8** | Midterm Exam |
| **9** | Filing Operations |
| **10** | WEB Form Applications |
| **11** | Interpage Data Transfer Methods |
| **12** | Database Operations-1 |
| **13** | Database Operations-2 |
| **14** | XML and WEB Services-1 |
| **15** | Final Exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TTB203 Object Oriented Programming 1** | Program: Computer Programmıng |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 3 | 2 | 2 | 4 | 3 | 5 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Asst. Prof. Yusuf ÇELİK | **Mail :**  celikyusuf@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/fakulteler/muhendislik/bolumler/bilgisayar/Pages/akadro.aspx |
| **Aims of Course** | This course aims to provide students with the competencies needed to write programs using an object-oriented language. |
| **Course Learning Outcomes and Competencies** | 1. Will be able to install the software necessary for programming.1.1. Will be able to install Visual Studio.2. Will be able to create applications using the basic commands of the programming language.2.1. Will be able to use definition commands.2.2. Will be able to use output commands.2.3. Will be able to use programming language tools.3. Will be able to create applications using functions in the programming language.3.1. Will be able to define functions.3.2. Will be able to use functions effectively in problem solving.4. Will be able to gain competencies in working with components and performing database operations.4.1 Will be able to establish database connections and use database tools.4.2 Will be able to use form tools effectively for the database. |
| **Textbooks and /or Other Required Materials** | C# Object-Oriented Programming/A Basic Beginner's Guide (Bradley Lee Jones)C# Programming Language and Software Design (Ahmet Kaymaz) |
| **Method of delivery of the course**  | Face to face |
| **Teaching Methods and Techniques** | Lecture, question and answer |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
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| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Installing and Configuring Software for Object-Oriented Programming |
| **2** | Creating Console Applications Using Basic Programming Language Expressions |
| **3** | Decision Control Statements, Loop Control Statements |
| **4** | Control Objects and Arrays |
| **5** | Control Objects and Arrays |
| **6** | Object Usage and Operators |
| **7** | Standard Functions, User-Defined Functions |
| **8** | Midterm Exam |
| **9** | Component Library |
| **10** | Data Structures |
| **11** | Operating System Objects |
| **12** | Menu Design and Forms |
| **13** | Database Operations |
| **14** | Interactive Data Objects |
| **15** | Final Exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TTB209 Content Management System** | Program: Computer Programmıng |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 3 | 2 | 0 | 2 | 2 | 2 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Asst. Prof. Yücel BÜRHAN | **Mail :**  yucelburhan@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | The competencies to establish a content management system and manage the site in accordance with the necessary conditions for the regular and efficient operation of the content management system and site management will be acquired. |
| **Course Learning Outcomes and Competencies** | 1. Be able to install the content management system.1.1 Be able to set up the database required for the system.1.2 Be able to transfer content to the server.2. Be able to configure the site.2.1 Be able to configure the system and server.2.2 Be able to manage themes.3. Be able to manage the database and system.3.1 Be able to manage components, plugins, and menus.3.2 Be able to add, delete, and edit users. |
| **Textbooks and /or Other Required Materials** | Course notes and internet |
| **Method of delivery of the course**  | Face to face |
| **Teaching Methods and Techniques** | Lecture, question and answer, presentation |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
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| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Content Management System |
| **2** | Content Management System |
| **3** | Content Management System |
| **4** | Site Management |
| **5** | Site Management |
| **6** | Site Management |
| **7** | Site Management |
| **8** | Midterm Exam |
| **9** | Content Management |
| **10** | Content Management |
| **11** | Component Management |
| **12** | Component Management |
| **13** | Plugin Management |
| **14** | Tool Management |
| **15** | Final Exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TTB207 Network Fundamentals** | Program: Computer Programmıng |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 3 | 2 | 0 | 2 | 2 | 2 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Kemal YAĞCI | **Mail :**  kemalyagci@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | This course aims to provide competencies related to network operations. |
| **Course Learning Outcomes and Competencies** | 1. Be able to prepare the network structure.1.1 Be able to determine the appropriate network topology.1.2 Be able to prepare the physical infrastructure.2. Be able to configure network connections.2.1 Be able to configure network addressing and sharing settings.2.2. Be able to configure security settings.3. Be able to include peripherals in the network.3.1 Be able to identify the required peripherals.3.2 Be able to configure peripherals. |
| **Textbooks and /or Other Required Materials** | Course notes and internet |
| **Method of delivery of the course**  | Face to face |
| **Teaching Methods and Techniques** | Lecture, question and answer, presentation |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
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| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
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| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Computer Networks |
| **2** | Computer Networks |
| **3** | Computer Networks |
| **4** | Network Cables |
| **5** | Network Cables |
| **6** | Network Cables |
| **7** | Network Addressing |
| **8** | Midterm Exam |
| **9** | Network Addressing |
| **10** | Sharing and Security |
| **11** | Sharing and Security |
| **12** | Sharing and Security |
| **13** | Network Peripherals |
| **14** | Network Peripherals |
| **15** | Final Exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TTB211 Web Project Management** | Program: Computer Programmıng |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 3 | 2 | 0 | 2 | 2 | 3 | Turkish | Compulsory |
| **Prerequisites of Course** | Having knowledge of HTML, ASP, Web Programming Language and Database |
| **Course Instructor** | Asst. Prof. Yücel BÜRHAN | **Mail :**  yucelburhan@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | It will be able to analyze the project to be done, manage the process and perform security management. |
| **Course Learning Outcomes and Competencies** | 1. Able to analyze web projects with modules.1.1. Knows how to analyze a web project with the Concept and Site Draft Schema Creation module.1.2. Knows how to manage the publication process with the Publication Process module.1.3. Knows how to manage security with the Security Management module.2. Able to use objects while working in qualified roles on projects.2.1. Knows how to participate in software planning and design.2.2. Able to perform non-managerial tasks within a group.3. Able to use software installation, testing, and acceptance processes.3.1. Able to develop algorithms to solve problems.3.2. Able to write code to solve problems that arise.3.3. Able to take precautions regarding data security and storage.4. Able to design a web page.4.1. Able to design based on typesetting, graphics, animation, and user interaction.4.2. Able to develop server-side programs.4.3.Can design databases using database management systems software in a client/server environment. |
| **Textbooks and /or Other Required Materials** | Web Project Management lecture notes.pdfInternet Programming II - Ebubekir Yaşar - Turgut Özseven |
| **Method of delivery of the course**  | Face to face |
| **Teaching Methods and Techniques** | Lecture, question and answer, presentation |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
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| 1. **Midterm Exam**
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| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
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| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Website Needs |
| **2** | Website Needs |
| **3** | Website Design |
| **4** | Website Design |
| **5** | Website Preparation Process |
| **6** | Website Preparation Process |
| **7** | Website Publishing Process |
| **8** | Midterm Exam |
| **9** | Website Security Settings |
| **10** | Website Security Settings |
| **11** | Website Backup Process |
| **12** | Website Backup Process |
| **13** | Website Maintenance Process |
| **14** | Website Maintenance Process |
| **15** | Final Exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name: GIR222 Entrepreneurship** | **Program: Computer Programming** |
| **Semester** | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 3 | 2 | 0 | 2 | 2 | 4 | Turkish | Elective |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Kürşat ARSLAN | **Mail :** kursatarslan@munzur.edu.tr**Web:**[https://www.munzur.edu.tr/birimler/akademik/](https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/yyonetimler/Pages/Default.aspx) [myo/tmyo/bolumler/yyonetimler/Pages/Default.aspx](https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/yyonetimler/Pages/Default.aspx) |
| **Aims of Course** | Explaining the basic concepts of entrepreneurship and distributing the basic information that an entrepreneur needs to do. |
| **Course Learning Outcomes and Competencies** | 1. Can define a feasibility report and understand its importance.
2. Can prepare a feasibility report and interpret a prepared feasibility report.
3. Can structure a business idea, prepare a time plan for it, research the resources and other components required.
4. Can prepare a business plan from beginning to end, including finance, marketing, management, and production.
 |
| **Textbooks and /or Other Required Materials** | - Entrepreneurship, Mahmut TEKİN, Günay Publications, Konya, 2009.-Lecture Notes |
| **Method of delivery of the course** | Face to face, Online |
| **Teaching Methods and Techniques** | Explanation, question-answer, presentation. |

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|  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| **1. Midterm Exam** | X | **40** |
| **2. Midterm Exam** |  |  |
| **Evaluation Criteria** | **3. Midterm Exam** |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
| **Semester Course Plan** |
| **Week** | **Syllabus** |
| **1** | Entrepreneurship in practice and general characteristics of entrepreneurs |
| **2** | Creativity and innovation concepts and applications |
| **3** | Innovation models |
| **4** | Innovative business ideas and applications |
| **5** | Business Plan scope and content for new ventures |
| **6** | Production, Marketing and Financial Planning in Entrepreneurship |
| **7** | Strategic planning applications for new ventures |
| **8** | Midterm Exam |
| **9** | Marketing plan applications for new ventures |
| **10** | Production planning applications for new ventures |
| **11** | Financial planning for new ventures |
| **12** | Intellectual asset management |
| **13** | Writing and presentation of business plans |
| **14** | Writing and presentation of business plans |
| **15** | Final Exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TTB217 Research Methods and Techniques** | Program: Computer Programmıng |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 3 | 3 | 0 | 3 | 3 | 2 | Turkish | Elective |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Kemal YAĞCI | **Mail :**  kemalyagci@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | The aim of this course is to provide students with research competencies. |
| **Course Learning Outcomes and Competencies** | 1. Able to Conduct Research1.1 Able to Select Research Topics1.2 Able to Research Sources2. Able to Prepare Research Reports2.1 Able to Evaluate Research Results2.2 Able to Convert Results into Reports3. Able to Present Research |
| **Textbooks and /or Other Required Materials** | - Books, encyclopedias, magazines, internet |
| **Method of delivery of the course**  | Face to face |
| **Teaching Methods and Techniques** | Lecture, presentation |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
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| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Choosing Research Topics |
| **2** | Choosing Research Topics |
| **3** | Conducting Literature Research |
| **4** | Conducting Literature Research |
| **5** | Evaluating Research Results |
| **6** | Evaluating Research Results |
| **7** | Converting Research Results into a Report |
| **8** | Midterm Exam |
| **9** | Preparing for the Presentation |
| **10** | Preparing for the Presentation |
| **11** | Making the Presentation |
| **12** | Making the Presentation |
| **13** | Making the Presentation |
| **14** | Making the Presentation |
| **15** | Final Exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TTB227 C-Programming 1** | Program: Computer Programmıng |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 3 | 2 | 2 | 4 | 3 | 6 | Türkish | Elective |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Asst. Prof. Mehmet Şahin AÇIKKAPI | **Mail :**  mehmetacikkapi @munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | Students will learn the syntax of the C language, develop basic algorithms, write programs and gain debugging skills. |
| **Course Learning Outcomes and Competencies** | Writing simple programs in CUsing conditional statements (if, switch) and loops (for, while, do-while)Defining and calling functions (prototype, parameter, return value)Understanding and implementing pointersWorking with arrays, structures, and character stringsReading/writing simple data with file I/O operations |
| **Textbooks and /or Other Required Materials** | Instructor’s notes |
| **Method of delivery of the course**  | Face to face, Online  |
| **Teaching Methods and Techniques** | Theory presentation in the classroom, practice in the laboratory environment, homework and projects. |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
|  |
| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Programming basics, introduction to C |
| **2** | Variables, operators, printf, scanf |
| **3** | if / else, switch-case |
| **4** | for, while, do…while, break, continue |
| **5** | Function definition and calling |
| **6** | Function prototypes and parameter passing (by value/reference) |
| **7** | Arrays – single-dimensional and multi-dimensional |
| **8** | Midterm Exam |
| **9** | Pointers: definition, usage, address acquisition |
| **10** | Structures |
| **11** | Character arrays and string.h |
| **12** | File operations: fopen, fread, fprintf, fscanf, etc. |
| **13** | Command line arguments (argc, argv) |
| **14** | Basic project work (homework/project presentation) |
| **15** | Final exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TTB202 Professional Foreign Language 2** | Program: Computer Programming |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 4 | 2 | 0 | 2 | 2 | 2 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Kürşat ARSLAN | **Mail :**  kursatarslan@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | To enable students to understand more advanced English technical texts for the IT sector, to interpret software documentation and to develop their English communication skills. |
| **Course Learning Outcomes and Competencies** | • Can analyze English texts related to software and informatics.• Can interpret English technical documentation.• Can understand projects on GitHub and similar platforms.• Can do technical correspondence in English.• Can prepare English resumes and cover letters. |
| **Textbooks and /or Other Required Materials** | Instructor’s notes |
| **Method of delivery of the course**  | Face to face, Online  |
| **Teaching Methods and Techniques** | Explanation, question-answer, presentation, practice, analysis |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
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| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Software development cycle terms |
| **2** | English user documentation |
| **3** | Reading API documentation |
| **4** | English used in open source projects |
| **5** | English project review on GitHub |
| **6** | Technical support communications and phrases |
| **7** | Writing bug reports in English |
| **8** | Midterm Exam |
| **9** | Software installation and instructions |
| **10** | English e-mail and business correspondence |
| **11** | Technical report writing |
| **12** | CV and cover letter preparation |
| **13** | Professional English presentations |
| **14** | General review and final preparation |
| **15** | Final exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**   **TTB206 System Analysis and Design** | Program: Computer Programmıng |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 4 | 2 | 0 | 2 | 2 | 2 | Türkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Kemal YAĞCI | **Mail :**  kemalyagci@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | With this course, students will be able to create a project that is applicable in the sector in full detail, using the professional knowledge they have acquired. |
| **Course Learning Outcomes and Competencies** | 1. Able to define the graduation project1.1 Able to determine the project topic and scope1.2 Able to analyze the project's working environment2. Able to determine the project's algorithm2.1 Able to determine the data to be recorded and its types within the project2.2 Able to determine the project's flowchart3. Able to write the project's code3.1 Able to write the project's code3.2 Able to perform project testing3.3 Able to prepare the project's installation package |
| **Textbooks and /or Other Required Materials** | Lecture notes, internet |
| **Method of delivery of the course**  | Face to face |
| **Teaching Methods and Techniques** | Explanation, presentation |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
|  |
| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Selecting a Field-Based Project Topic |
| **2** | Presenting the Obtained Information |
| **3** | Determining the Project's Topics and Working Environment through Analysis |
| **4** | Determining the Data to be Recorded and Its Types within the Project |
| **5** | Presenting the Obtained Information |
| **6** | Determining the Project's Algorithm and Flowchart |
| **7** | Establishing the Project's Platform |
| **8** | Midterm Exam |
| **9** | Presenting the Preparations |
| **10** | Writing and Testing the Code for the Project's Main Topics |
| **11** | Presenting the Project |
| **12** | Obtaining Detailed Suggestions for the Project, Writing Code, and Testing |
| **13** | Presenting the Project |
| **14** | Preparing the Project Installation Package |
| **15** | Final Exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TTB204 Object-Oriented Programming II** | Program: Computer Programming |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 4 | 2 | 2 | 4 | 3 | 5 | Türkish | Compulsory |
| **Prerequisites of Course** | Having basic programming knowledge. |
| **Course Instructor** | Asst. Prof. Yusuf ÇELİK | **Mail :** celikyusuf@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/fakulteler/muhendislik/bolumler/bilgisayar/Pages/akadro.aspx |
| **Aims of Course** | This course aims to provide students with the competencies needed to write programs using an object-oriented language. |
| **Course Learning Outcomes and Competencies** | 1. Will be able to configure the software required for programming.1.1. Will be able to obtain the applications required for programming.1.2. Will be able to install the applications required for programming.2. Will be able to develop basic operating system-based applications.2.1. Will be able to use basic commands to develop basic operating system-based applications.2.2. Will be able to use the necessary tools for application.4. Will be able to apply object-oriented programming.4.1. Will be able to understand the concept of an object class.4.2. Will be able to implement class-based programming.3. Will be able to develop advanced operating system-based applications.3.1. Will be able to use operating system libraries to develop advanced operating system-based applications.3.2. Will be able to implement operating system-based applications using class concepts. |
| **Textbooks and /or Other Required Materials** | C# Object-Oriented Programming/A Basic Beginner's Guide (Bradley Lee Jones)C# Programming Language and Software Design (Ahmet Kaymaz) |
| **Method of delivery of the course**  | Face to face |
| **Teaching Methods and Techniques** | Explanation, presentation |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
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| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Installing and Configuring Software for Object-Oriented Programming |
| **2** | Creating Console Applications Using Basic Programming Language Expressions |
| **3** | Decision Control Statements, Loop Control Statements |
| **4** | Control Objects and Arrays |
| **5** | Control Objects and Arrays |
| **6** | Object Usage and Operators |
| **7** | Standard Functions, User-Defined Functions |
| **8** | Midterm Exam |
| **9** | Component Library |
| **10** | Data Structures |
| **11** | Operating System Objects |
| **12** | Menu Design and Forms |
| **13** | Database Operations |
| **14** | Interactive Data Objects |
| **15** | Final Exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TTB208 Server Operating Systems** | Program: Computer Programming |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 4 | 2 | 2 | 4 | 3 | 5 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Kürşat ARSLAN | **Mail :**  kursatarslan@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | To provide students with basic knowledge and skills in the installation, configuration, management and security of server-based operating systems. |
| **Course Learning Outcomes and Competencies** | • Performs server operating system installation.• Performs user, group and permission configurations.• Installs and configures services such as DNS, DHCP, FTP, Web.• Provides server security and performs basic backup operations. |
| **Textbooks and /or Other Required Materials** | Instructor’s notes |
| **Method of delivery of the course**  | Face to face, Online  |
| **Teaching Methods and Techniques** | Explanation, question-answer, presentation, practice, analysis |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
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| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Introduction to server operating systems |
| **2** | Windows Server architecture and installation |
| **3** | Linux server installation (Ubuntu/CentOS) |
| **4** | User and group management |
| **5** | File and folder permissions |
| **6** | DHCP and DNS service installation |
| **7** | Web and FTP server installation |
| **8** | Midterm Exam |
| **9** | Backup and restore operations |
| **10** | Remote desktop and SSH connections |
| **11** | Update management |
| **12** | Firewall and basic security measures |
| **13** | System monitoring and log files |
| **14** | General repetition and application evaluation |
| **15** | Final exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name:**  **TTB210 Open Code Operatıng System** | Program: Computer Programmıng |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 4 | 2 | 0 | 2 | 2 | 3 | Turkish | Compulsory |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Enver YAZĞILI | **Mail :**  enveryazgili@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | Aim of the class is to teach students open source operating system usage ability. |
| **Course Learning Outcomes and Competencies** |

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| Open source installation of the operating system and make basic settings |
| Using the tools in the open source operating system |
| Perform the management of the open source operating system |

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| **Textbooks and /or Other Required Materials** | Instructor’s notes |
| **Method of delivery of the course**  | Face to face, Online  |
| **Teaching Methods and Techniques** | Explanation, question-answer, presentation, practice, analysis |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
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| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Open Source Operating System Structure |
| **2** | Essential Desktop Concepts and Operations |
| **3** | File System and Operation Logic |
| **4** | Open Source Operating System Basic Tools and Applications |
| **5** | Basic Networking Programs and Network Settings |
| **6** | Basic Networking Programs and Network Settings |
| **7** | Internet Access |
| **8** | Midterm Exam |
| **9** | Basic User and Group Operations |
| **10** | Open Source Operating System Editor |
| **11** | Program installation and update |
| **12** | Shell Operations |
| **13** | Shell Operations |
| **14** | Directory and File Sharing |
| **15** | Final exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name: TTB228 C-Programming-2** | Program: Computer Programmıng |
| **Semester** | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 4 | 2 | 2 | 4 | 3 | 6 | Turkish | Elective |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Asst. Prof. Mehmet Şahin AÇIKKAPI | **Mail :**  mehmetacikkapi @munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | To provide students with the skills to create dynamic structures in the C language, use pointers effectively, and develop complex algorithms. |
| **Course Learning Outcomes and Competencies** | Dinamik bellek ayırma ve serbest bırakma işlemleri yapabilirTek ve çift bağlı listeleri, yığın ve kuyruk veri yapılarını tanıyabilir ve uygulayabilirÖzyinelemeli fonksiyonlar ile problem çözebilirGöstericilerle fonksiyonlara işaretçi ile değer aktarabilirGelişmiş dosya I/O tekniklerini (ikili dosya, rastgele erişim) kullanabilir |
| **Textbooks and /or Other Required Materials** | Instructor’s notes |
| **Method of delivery of the course**  | Face to face, Online  |
| **Teaching Methods and Techniques** | Theory presentation in the classroom, practice in the laboratory environment, homework and projects. |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
|  |
| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Dynamic memory management (malloc, calloc, free) |
| **2** | Single linked list – creation, traversal, deletion |
| **3** | Double linked list – basic operations |
| **4** | Stack – LIFO structure and implementation |
| **5** | Queue – FIFO structure and implementation |
| **6** | Recursion – factorial, Fibonacci, binary search trees |
| **7** | Pointer passing to functions – callback, pointer arrays |
| **8** | Midterm Exam |
| **9** | Binary search trees – insertion, deletion of nodes |
| **10** | File operations – binary file, random access |
| **11** | Error handling and errno handling |
| **12** | Reading/writing structured data – CSV, formatted I/O |
| **13** | Project design – planning and implementation |
| **14** | Project presentations |
| **15** | Final exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name: GÖN101** **Volunteering Activities** | Program: Computer Programmıng |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 4 | 2 | 0 | 2 | 2 | 4 | Turkish | Elective |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Kürşat ARSLAN | **Mail :**  kursatarslan@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | To ensure that students participate in voluntary activities with the awareness of community service, to develop their social responsibilities and to increase their individual awareness. |
| **Course Learning Outcomes and Competencies** | • Explains the concepts of volunteering and social contribution.• Participates in social responsibility projects as a volunteer.• Takes part as a volunteer in public/private institutions.• Plans, implements and reports the volunteering process.• Makes a presentation of volunteer experiences. |
| **Textbooks and /or Other Required Materials** | Instructor’s notes |
| **Method of delivery of the course**  | Face to face, Online  |
| **Teaching Methods and Techniques** | Explanation, question-answer, presentation, practice, analysis |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** |  |  |
| **Semester Final Exam** | X | **60** |
|  |
| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | The concept and importance of volunteering |
| **2** | Legal and ethical dimensions of volunteering |
| **3** | Examples of social responsibility |
| **4** | Introduction of volunteering areas |
| **5** | Institution matching and task distribution |
| **6** | Preparation for field activities |
| **7** | Conducting volunteering activities |
| **8** | Interim evaluation |
| **9** | Event observations and reporting |
| **10** | Group presentation preparations |
| **11** | Digital volunteering and online contributions |
| **12** | Sharing of project outcomes |
| **13** | Presentations and feedback |
| **14** | General review |
| **15** | Final Exam |

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| **DESCRIPTION FORM OF COURSE** |
| **Course Code and Name: TTB218** **Cyber Security** | Program: Computer Programmıng |
| **Semester**  | **Theory** | **Prac.** | **Total** | **Credits** | **ECTS** | **Language of Course** | **Course Type Compulsory/Elective** |
| 4 | 3 | 0 | 3 | 3 | 6 | Turkish | Elective |
| **Prerequisites of Course** | There are no prerequisites. |
| **Course Instructor** | Lecturer Kemal YAĞCI | **Mail :**  kemalyagci@munzur.edu.tr**Web :** https://www.munzur.edu.tr/birimler/akademik/myo/tmyo/bolumler/bilgisayarTekno/Pages/akadro.aspx |
| **Aims of Course** | The aim is to develop a fundamental understanding of cyber threats that can be encountered in today's digital world. It teaches how cyberattacks occur and what defense mechanisms exist against them. |
| **Course Learning Outcomes and Competencies** | 1. Develops awareness of cybersecurity.2. Analyzes potential attacks on information systems.3. Takes defensive measures against potential attacks on information systems. |
| **Textbooks and /or Other Required Materials** | Books and lecture notes on cybersecurity |
| **Method of delivery of the course**  | Face to face, Online  |
| **Teaching Methods and Techniques** | Explanation, presentation, group work, laboratory work |

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| **Evaluation Criteria**  |  | **If yes, please mark (X)** | **Percentage (%) Contribution to the Overall Average** |
| 1. **Midterm Exam**
 | X | **40** |
| 1. **Midterm Exam**
 |  |  |
| 1. **Midterm Exam**
 |  |  |
| **Oral Exam** |  |  |
| **Practical Exam (Lab, Project etc.)** | X | **60** |
| **Semester Final Exam** |  |  |
|  |
| **Semester Course Plan** |
| **Week** | **Syllabus**  |
| **1** | Basic Concepts |
| **2** | Cybersecurity |
| **3** | Operating Systems |
| **4** | Computer Networks |
| **5** | Cryptology and Encryption |
| **6** | Information Technology Law |
| **7** | Computer Forensics |
| **8** | Midterm Exam |
| **9** | Cyber ​​Attacks |
| **10** | Scanning Processes |
| **11** | Web Security Tools |
| **12** | Wireless Network Security |
| **13** | Penetration Tests |
| **14** | Cybersecurity Tools |
| **15** | Final Exam |