

**COMPUTER EDUCATION AND INSTRUCTIONAL TECHNOLOGY**

**First Semester**

| Code         |     | Courses                                 | T         | U        | L        | Y<br>Credit | ECTS      |
|--------------|-----|---|-----------|----------|----------|-------------|-----------|
| CET          | 101 | Information Technologies in Education I | 2         | 0        | 2        | 3           | 10        |
| MATH         | 133 | Basic Mathematics                       | 3         | 0        | 0        | 3           | 5         |
| ED           | 101 | Introduction to Educational Sciences    | 3         | 0        | 0        | 3           | 6         |
| AFE          | 131 | Academic English I                      | 2         | 2        | 0        | 3           | 4         |
| HUM          | 103 | Humanities                              | 2         | 0        | 0        | 2           | 3         |
| TKL          | 201 | Turkish Language I                      | 2         | 0        | 0        | 2           | 2         |
| <b>Total</b> |     |   | <b>14</b> | <b>2</b> | <b>2</b> | <b>16</b>   | <b>30</b> |

**Second Semester**

| Code         |     | Courses                                  | T         | U        | L        | Y<br>Credit | ECTS      |
|--------------|-----|--|-----------|----------|----------|-------------|-----------|
| CET          | 102 | Information Technologies in Education II | 2         | 0        | 2        | 3           | 8         |
| MATH         | 134 | Advanced Mathematics                     | 3         | 0        | 0        | 3           | 5         |
| ED           | 221 | Educational Psychology                   | 3         | 0        | 0        | 3           | 5         |
| AFE          | 132 | Academic English II                      | 2         | 2        | 0        | 3           | 4         |
| CET          | 170 | Use of Social Media in Education         | 3         | 0        | 0        | 3           | 6         |
| TKL          | 202 | Turkish Language II                      | 2         | 0        | 0        | 2           | 2         |
| <b>Total</b> |     |  | <b>15</b> | <b>2</b> | <b>2</b> | <b>17</b>   | <b>30</b> |

**Third Semester**

| Code         |     | Courses                                    | T         | U        | L        | Y<br>Credit | ECTS      |
|--------------|-----|--|-----------|----------|----------|-------------|-----------|
| CET          | 211 | Introduction to Algorithms and Programming | 2         | 0        | 2        | 3           | 5         |
| CET          | 201 | Instructional Materials in Education       | 2         | 0        | 2        | 3           | 4         |
| ED           | 103 | Guidance in Education                      | 3         | 0        | 0        | 3           | 6         |
| CET          | 207 | Computer Hardware                          | 3         | 0        | 0        | 3           | 4         |
| ED           | 340 | Instructional Principles and Methods       | 3         | 0        | 0        | 3           | 6         |
| CET          | XXX | Area Elective I                            | 3         | 0        | 0        | 3           | 5         |
| <b>Total</b> |     |  | <b>16</b> | <b>0</b> | <b>4</b> | <b>18</b>   | <b>30</b> |

**Fourth Semester**

| Code         |     | Courses   | T         | U        | L        | Y<br>Credit | ECTS      |
|--------------|-----|---|-----------|----------|----------|-------------|-----------|
| CET          | 212 | Fundamentals of Object Oriented Programming for Education | 2         | 0        | 2        | 3           | 7         |
| CET          | 215 | Graphics and Visualization in Education                   | 2         | 0        | 2        | 3           | 6         |
| CET          | 205 | Instructional Design                                      | 2         | 0        | 2        | 3           | 6         |
| CET          | 214 | Fundamentals of Computer Ass. Instruction                 | 2         | 0        | 2        | 3           | 6         |
| CET          | XXX | Area Elective II  | 3         | 0        | 0        | 3           | 5         |
| <b>Total</b> |     |   | <b>11</b> | <b>0</b> | <b>8</b> | <b>15</b>   | <b>30</b> |

**Fifth Semester**

| Code         |     | Courses  | T         | U        | L        | Y<br>Credit | ECTS      |
|--------------|-----|--|-----------|----------|----------|-------------|-----------|
| CET          | 343 | Special Teaching Methods in Computer Education I | 2         | 0        | 2        | 3           | 7         |
| CET          | 313 | Computer Networks and Communication              | 2         | 0        | 2        | 3           | 7         |
| CET          | 325 | Principles of Distance Education                 | 3         | 0        | 0        | 3           | 6         |
| ED           | 440 | Measurement and Evaluation                       | 3         | 0        | 0        | 3           | 5         |
| CET          | XXX | Area Elective III                                | 3         | 0        | 0        | 3           | 5         |
| <b>Total</b> |     |  | <b>13</b> | <b>0</b> | <b>4</b> | <b>15</b>   | <b>30</b> |

**Sixth Semester**

| Code |     | Courses   | T | U | L | Y<br>Credit | ECTS |
|------|-----|---|---|---|---|-------------|------|
| CET  | 344 | Special Teaching Methods in Computer Education II | 2 | 0 | 2 | 3           | 7    |
| CET  | 308 | Operating Systems                                 | 2 | 0 | 2 | 3           | 6    |
| CET  | 311 | Multimedia Design and Development                 | 2 | 0 | 2 | 3           | 6    |

|       |     |                             |    |   |   |    |    |
|-------|-----|-----------------------------|----|---|---|----|----|
| CET   | 310 | Database Management Systems | 2  | 0 | 2 | 3  | 6  |
| CET   | XXX | Area Elective IV            | 3  | 0 | 0 | 3  | 5  |
| Total |     |                             | 11 | 0 | 8 | 15 | 30 |

#### Seventh Semester

| Code  |     | Courses                                   | T  | U | L | Y<br>Credit | ECTS |
|-------|-----|---|----|---|---|-------------|------|
| CET   | 406 | School Experience in Computer Education   | 1  | 4 | 0 | 3           | 7    |
| CET   | 472 | Design & Develop. of Educational Software | 2  | 0 | 2 | 3           | 6    |
| CET   | 487 | Authoring Tools in E-learning             | 2  | 0 | 2 | 3           | 6    |
| EDGN  | 200 | Social Awareness                          | 0  | 4 | 0 | 2           | 4    |
| HTR   | 301 | History of Turkish Revolution I           | 2  | 0 | 0 | 2           | 2    |
| ED    | 477 | Classroom Management                      | 3  | 0 | 0 | 3           | 5    |
| Total |     |   | 10 | 8 | 4 | 16          | 30   |

#### Eighth Semester

| Code          |     | Courses                                   | T  | U | L | Y<br>Credit | ECTS |
|---------------|-----|---|----|---|---|-------------|------|
| CET           | 408 | Practice Teaching in Computer Education   | 2  | 4 | 0 | 4           | 12   |
| CET           | 414 | Project Development in Computer Education | 2  | 0 | 2 | 3           | 6    |
| HTR           | 302 | History of Turkish Revolution II          | 2  | 0 | 0 | 2           | 2    |
| CET           | XXX | Free Elective I                           | 3  | 0 | 0 | 3           | 5    |
| CET           | XXX | Free Elective II                          | 3  | 0 | 0 | 3           | 5    |
| Total         |     |   | 12 | 4 | 2 | 15          | 30   |
| General Total |     |   |    |   |   | 127         | 240  |

#### Classes For All Departments

| Code |     | Courses                     | T | U | L | Y<br>Credit | ECTS |
|------|-----|-----------------------------|---|---|---|-------------|------|
| CET  | 110 | Basic Computer Applications | 2 | 0 | 2 | 3           | 5    |

\* The classes are given all semester

#### AREA ELECTIVES

| Code |     | Courses                                      | T | U | L | Y<br>Credit | ECTS |
|------|-----|--|---|---|---|-------------|------|
| CET  | 462 | Content and Learning Management Systems      | 3 | 0 | 0 | 3           | 5    |
| CET  | 491 | Mobile Application Development               | 3 | 0 | 0 | 3           | 5    |
| CET  | 492 | Data Mining and Social Network Analysis      | 3 | 0 | 0 | 3           | 5    |
| CET  | 490 | Advanced Internet Programming and E-Learning | 3 | 0 | 0 | 3           | 5    |
| CET  | 463 | Human-computer Interaction                   | 3 | 0 | 0 | 3           | 5    |
| CET  | 493 | Visual Literacy and Creativity               | 3 | 0 | 0 | 3           | 5    |
| CET  | 301 | Design and Development of Educational Games  | 2 | 0 | 2 | 3           | 5    |