

# COMPUTER AIDED DRAWING

|           |                                                         |                                                                                                                                                                                                                       |                                                                                             |
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| <b>1</b>  | Course Title:                                           | COMPUTER AIDED DRAWING                                                                                                                                                                                                |                                                                                             |
| <b>2</b>  | Course Code:                                            | INTZ201                                                                                                                                                                                                               |                                                                                             |
| <b>3</b>  | Type of Course:                                         | Compulsory                                                                                                                                                                                                            |                                                                                             |
| <b>4</b>  | Level of Course:                                        | Short Cycle                                                                                                                                                                                                           |                                                                                             |
| <b>5</b>  | Year of Study:                                          | 2                                                                                                                                                                                                                     |                                                                                             |
| <b>6</b>  | Semester:                                               | 3                                                                                                                                                                                                                     |                                                                                             |
| <b>7</b>  | ECTS Credits Allocated:                                 | 4.00                                                                                                                                                                                                                  |                                                                                             |
| <b>8</b>  | Theoretical (hour/week):                                | 2.00                                                                                                                                                                                                                  |                                                                                             |
| <b>9</b>  | Practice (hour/week):                                   | 0.00                                                                                                                                                                                                                  |                                                                                             |
| <b>10</b> | Laboratory (hour/week):                                 | 2                                                                                                                                                                                                                     |                                                                                             |
| <b>11</b> | Prerequisites:                                          | Basic technical drawing, information about construction profession drawing and ability of computer usage                                                                                                              |                                                                                             |
| <b>12</b> | Language:                                               | Turkish                                                                                                                                                                                                               |                                                                                             |
| <b>13</b> | Mode of Delivery:                                       | Face to face                                                                                                                                                                                                          |                                                                                             |
| <b>14</b> | Course Coordinator:                                     | Öğr.Gör. ALAADDIN BAKIR                                                                                                                                                                                               |                                                                                             |
| <b>15</b> | Course Lecturers:                                       |                                                                                                                                                                                                                       |                                                                                             |
| <b>16</b> | Contact information of the Course Coordinator:          | Öğr.Gör. Zafer YILDIZ                                                                                                                                                                                                 |                                                                                             |
| <b>17</b> | Website:                                                |                                                                                                                                                                                                                       |                                                                                             |
| <b>18</b> | Objective of the Course:                                | Drawing 2D (two dimensional) of architectural and construction project and dimensioning by the help of using the basic cad program, using the ready made objects, Make 3D (three-dimensional) modeling in CAD program |                                                                                             |
| <b>19</b> | Contribution of the Course to Professional Development: |                                                                                                                                                                                                                       |                                                                                             |
| <b>20</b> | Learning Outcomes:                                      |                                                                                                                                                                                                                       |                                                                                             |
|           |                                                         | <b>1</b>                                                                                                                                                                                                              | Set-up the CAD programs                                                                     |
|           |                                                         | <b>2</b>                                                                                                                                                                                                              | Set-up the CAD (AutoCAD) programs                                                           |
|           |                                                         | <b>3</b>                                                                                                                                                                                                              | Being objects by using CAD commands                                                         |
|           |                                                         | <b>4</b>                                                                                                                                                                                                              | Drawing of 2D architectural and construction in Autocad program.                            |
|           |                                                         | <b>5</b>                                                                                                                                                                                                              | Dimensioning of 2D architectural and construction drawing in Autocad program.               |
|           |                                                         | <b>6</b>                                                                                                                                                                                                              | Adding ready-made shapes on the architectural and constructional images in Autocad program. |
|           |                                                         | <b>7</b>                                                                                                                                                                                                              | Taking print out of the drawings from the CAD programs.                                     |
|           |                                                         | <b>8</b>                                                                                                                                                                                                              | Make three-dimensional solid modeling and surface modeling in Autocad program.              |
|           |                                                         | <b>9</b>                                                                                                                                                                                                              | Material assignment to three dimensional drawing and able to render the process.            |
|           |                                                         | <b>10</b>                                                                                                                                                                                                             | Make the calculations of area, volume and quantity in CAD programs.                         |
| <b>21</b> | Course Content:                                         |                                                                                                                                                                                                                       |                                                                                             |
|           |                                                         | <b>Course Content:</b>                                                                                                                                                                                                |                                                                                             |
| Week      | Theoretical                                             | Practice                                                                                                                                                                                                              |                                                                                             |
| <b>1</b>  | Package Program Setup                                   | Autocad programs usage                                                                                                                                                                                                |                                                                                             |
| <b>2</b>  | CAD programs commands                                   | Create layers, measured drawings                                                                                                                                                                                      |                                                                                             |

|    |                                        |                                                                                           |
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| 3  | CAD programs commands                  | Drawing application with Draw commands                                                    |
| 4  | CAD Program Drawing Settings, Toolbars | Drawing application with Draw commands                                                    |
| 5  | Basic Computer Operations              | Draw-Modify komutları ile çizim uygulamaları                                              |
| 6  | Detail Drawing                         | Drawing application with Draw-Modify –Dimension commands.                                 |
| 7  | Detail Drawing                         | Floor plan drawing, dimensioning, furnishing and print out applications                   |
| 8  | Repeating courses and midterm exam     |                                                                                           |
| 9  | Detail Drawing                         | Being quantity application by make calculation of area and volume with analysis commands. |
| 10 | Detail Drawing                         | 3D drawing applications                                                                   |
| 11 | Dimensioning commands                  | 3D drawing applications                                                                   |
| 12 | Furniture and Screening                | Material assignment render the process.                                                   |
| 13 | Last Transactions                      | Design to 3D solid modeling of basic building.                                            |
| 14 | Take Output Transactions from printer  | Being roof with surface modeling                                                          |

|    |                                               |                                                          |
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| 22 | Textbooks, References and/or Other Materials: | AUTOCAD 2004-Zafer YILDIZ<br>Autocad 2007 - AutoCad 2009 |
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| 23 | Assesment |
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| TERM LEARNING ACTIVITIES   | NUMBE | WEIGHT |                 |                        |
|----------------------------|-------|--------|-----------------|------------------------|
| Activites                  |       | Number | Duration (hour) | Total Work Load (hour) |
| Theoretical                |       |        |                 |                        |
| Home work-project          | 1     | 14     | 2.00            | 28.00                  |
| Practicals/Labs            |       | 14     | 2.00            | 28.00                  |
| Self study and preperation | 3     | 13     | 2.00            | 26.00                  |
| Homeworks                  |       | 1      | 30.00           | 30.00                  |
| Success Grade              |       | 0      | 0.00            | 0.00                   |
| Projects                   |       | 0      | 0.00            | 0.00                   |
| Field Studies              |       | 0      | 0.00            | 0.00                   |
| Midterm exams              |       | 1      | 15.00           | 15.00                  |
| Others                     |       | 0      | 0.00            | 0.00                   |
| Course Exams               |       | 1      | 20.00           | 20.00                  |
| Total Work Load            |       |        |                 | 162.00                 |
| Total work load/ 30 hr     |       |        |                 | 4.90                   |
| ECTS Credit of the Course  |       |        |                 | 4.00                   |

| 25  | CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |
|-----|---------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
|     | PQ1                                                           | PQ2 | PQ3 | PQ4 | PQ5 | PQ6 | PQ7 | PQ8 | PQ9 | PQ10 | PQ11 | PQ12 | PQ13 | PQ14 | PQ15 | PQ16 |
| ÖK1 | 0                                                             | 0   | 0   | 5   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| ÖK2 | 0                                                             | 0   | 0   | 5   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| ÖK3 | 0                                                             | 0   | 0   | 5   | 4   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| ÖK4 | 0                                                             | 0   | 0   | 5   | 4   | 0   | 0   | 0   | 0   | 0    | 5    | 0    | 0    | 0    | 0    | 0    |

|                                                       |            |   |   |       |   |   |          |   |   |        |   |   |             |   |   |   |
|-------------------------------------------------------|------------|---|---|-------|---|---|----------|---|---|--------|---|---|-------------|---|---|---|
| ÖK5                                                   | 0          | 0 | 0 | 5     | 4 | 0 | 0        | 0 | 0 | 0      | 5 | 0 | 0           | 0 | 0 | 0 |
| ÖK6                                                   | 0          | 0 | 0 | 5     | 0 | 0 | 0        | 0 | 0 | 0      | 5 | 0 | 0           | 0 | 0 | 0 |
| ÖK7                                                   | 0          | 0 | 0 | 5     | 0 | 0 | 0        | 0 | 0 | 0      | 4 | 0 | 0           | 0 | 0 | 0 |
| ÖK8                                                   | 0          | 0 | 0 | 5     | 0 | 0 | 0        | 0 | 0 | 0      | 3 | 0 | 0           | 0 | 0 | 0 |
| ÖK9                                                   | 0          | 0 | 0 | 5     | 0 | 0 | 0        | 0 | 0 | 0      | 3 | 0 | 0           | 0 | 0 | 0 |
| ÖK10                                                  | 0          | 0 | 0 | 5     | 0 | 0 | 0        | 3 | 0 | 0      | 3 | 0 | 0           | 0 | 0 | 0 |
| LO: Learning Objectives    PQ: Program Qualifications |            |   |   |       |   |   |          |   |   |        |   |   |             |   |   |   |
| Contribution Level:                                   | 1 very low |   |   | 2 low |   |   | 3 Medium |   |   | 4 High |   |   | 5 Very High |   |   |   |