

# ECOLOGY AND ARCHITECTURE

|      |                                                         |                                                                                                                                                                                                                 |                                                                                                                                                                   |
|------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Course Title:                                           | ECOLOGY AND ARCHITECTURE                                                                                                                                                                                        |                                                                                                                                                                   |
| 2    | Course Code:                                            | MIM2012                                                                                                                                                                                                         |                                                                                                                                                                   |
| 3    | Type of Course:                                         | Optional                                                                                                                                                                                                        |                                                                                                                                                                   |
| 4    | Level of Course:                                        | First Cycle                                                                                                                                                                                                     |                                                                                                                                                                   |
| 5    | Year of Study:                                          | 2                                                                                                                                                                                                               |                                                                                                                                                                   |
| 6    | Semester:                                               | 4                                                                                                                                                                                                               |                                                                                                                                                                   |
| 7    | ECTS Credits Allocated:                                 | 3.00                                                                                                                                                                                                            |                                                                                                                                                                   |
| 8    | Theoretical (hour/week):                                | 2.00                                                                                                                                                                                                            |                                                                                                                                                                   |
| 9    | Practice (hour/week):                                   | 0.00                                                                                                                                                                                                            |                                                                                                                                                                   |
| 10   | Laboratory (hour/week):                                 | 0                                                                                                                                                                                                               |                                                                                                                                                                   |
| 11   | Prerequisites:                                          | -                                                                                                                                                                                                               |                                                                                                                                                                   |
| 12   | Language:                                               | Turkish                                                                                                                                                                                                         |                                                                                                                                                                   |
| 13   | Mode of Delivery:                                       | Face to face                                                                                                                                                                                                    |                                                                                                                                                                   |
| 14   | Course Coordinator:                                     | Öğr.Gör.Dr. Çiğdem YÜCEL                                                                                                                                                                                        |                                                                                                                                                                   |
| 15   | Course Lecturers:                                       | Öğ. Gör. Çiğdem YÜCEL                                                                                                                                                                                           |                                                                                                                                                                   |
| 16   | Contact information of the Course Coordinator:          | E-posta: cyucel@uludag.edu.tr, Tel: 0. 224. 2942143 Uludağ Üniversitesi Müh.- Mim. Fak. Mimarlık Bölümü                                                                                                         |                                                                                                                                                                   |
| 17   | Website:                                                |                                                                                                                                                                                                                 |                                                                                                                                                                   |
| 18   | Objective of the Course:                                | During searching for solutions for intensively existing environmental problems in the world , to comprehend the criterias of imaginations which can supply the needs of healthy & qualified future generations. |                                                                                                                                                                   |
| 19   | Contribution of the Course to Professional Development: |                                                                                                                                                                                                                 |                                                                                                                                                                   |
| 20   | Learning Outcomes:                                      |                                                                                                                                                                                                                 |                                                                                                                                                                   |
|      |                                                         | 1                                                                                                                                                                                                               | Sustainable using of resources in design and in relation to the environmental topics, realizing basic principles about ecology and architectural responsibilities |
|      |                                                         | 2                                                                                                                                                                                                               | Acquiring information about environmental problems in architectural design and using this knowledge in architectural practice                                     |
|      |                                                         | 3                                                                                                                                                                                                               | Gaining the ability of designing sensitive to ecological environment                                                                                              |
|      |                                                         | 4                                                                                                                                                                                                               | Considering sustainability notion in design in a holistic manner                                                                                                  |
|      |                                                         | 5                                                                                                                                                                                                               | Gaining the ability of researching, analyzing, producing information, criticizing and presenting                                                                  |
|      |                                                         | 6                                                                                                                                                                                                               |                                                                                                                                                                   |
|      |                                                         | 7                                                                                                                                                                                                               |                                                                                                                                                                   |
|      |                                                         | 8                                                                                                                                                                                                               |                                                                                                                                                                   |
|      |                                                         | 9                                                                                                                                                                                                               |                                                                                                                                                                   |
|      |                                                         | 10                                                                                                                                                                                                              |                                                                                                                                                                   |
| 21   | Course Content:                                         |                                                                                                                                                                                                                 |                                                                                                                                                                   |
|      |                                                         | <b>Course Content:</b>                                                                                                                                                                                          |                                                                                                                                                                   |
| Week | Theoretical                                             | Practice                                                                                                                                                                                                        |                                                                                                                                                                   |
| 1    | Environment & ecology concept                           |                                                                                                                                                                                                                 |                                                                                                                                                                   |

|                                                                  |                                                          |        |                 |                        |
|------------------------------------------------------------------|----------------------------------------------------------|--------|-----------------|------------------------|
| 2                                                                | Basic principles of ecology                              |        |                 |                        |
| 3                                                                | Environmental pollution                                  |        |                 |                        |
| 4                                                                | Concept of sustainable                                   |        |                 |                        |
| 5                                                                | Legal managerial processes to the concept of sustainable |        |                 |                        |
| 6                                                                | Continuation in traditional construction                 |        |                 |                        |
| 7                                                                | Repeating courses and midterm exam                       |        |                 |                        |
| 8                                                                | Ecology in construction                                  |        |                 |                        |
| 9                                                                | Ecological Architectural Descriptions                    |        |                 |                        |
| 10                                                               | Concept of regenaretable energy                          |        |                 |                        |
| 11                                                               | Energy of sun                                            |        |                 |                        |
| 12                                                               | Energy of wind                                           |        |                 |                        |
| 13                                                               | Homework Presentation                                    |        |                 |                        |
| 14                                                               | Homework Presentation                                    |        |                 |                        |
| Activites                                                        |                                                          | Number | Duration (hour) | Total Work Load (hour) |
| Theoretical                                                      |                                                          | 14     | 2.00            | 28.00                  |
| Practicals/Labs                                                  |                                                          | 0      | 0.00            | 0.00                   |
| Self study and preperation                                       |                                                          | 13     | 2.00            | 26.00                  |
| Homeworks                                                        |                                                          | 1      | 10.00           | 10.00                  |
| Projects                                                         |                                                          | 0      | 0.00            | 0.00                   |
| Field Studies                                                    |                                                          | 0      | 0.00            | 0.00                   |
| Midterm exams                                                    |                                                          | 1      | 12.00           | 12.00                  |
| Others                                                           |                                                          | 0      | 0.00            | 0.00                   |
| TERM LEARNING ACTIVITIES                                         |                                                          | NUMBER | WEIGHT          |                        |
| Final Exams                                                      |                                                          | 1      | 16.00           | 16.00                  |
| Total Work Load                                                  |                                                          |        |                 | 92.00                  |
| Total work load/ 30 hr                                           |                                                          | 0      | 0.00            | 3.07                   |
| Quiz                                                             |                                                          |        |                 |                        |
| ECTS Credit of the Course                                        |                                                          |        |                 | 3.00                   |
| Final Exam                                                       |                                                          | 1      | 50.00           |                        |
| Total                                                            |                                                          | 3      | 100.00          |                        |
| Contribution of Term (Year) Learning Activities to Success Grade |                                                          | 50.00  |                 |                        |
| Contribution of Final Exam to Success Grade                      |                                                          | 50.00  |                 |                        |
| Total                                                            |                                                          | 100.00 |                 |                        |
| Measurement and Evaluation Techniques Used in the Course         |                                                          |        |                 |                        |
| 24                                                               | ECTS / WORK LOAD TABLE                                   |        |                 |                        |

| 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                                                   | 4                                                             | 3   | 3   | 3     | 2   | 3   | 3        | 3   | 3   | 3      | 2    | 0    | 0           | 0    | 0    | 0    |
| ÖK2                                                   | 4                                                             | 3   | 3   | 1     | 3   | 3   | 3        | 3   | 3   | 3      | 1    | 0    | 0           | 0    | 0    | 0    |
| ÖK3                                                   | 4                                                             | 3   | 3   | 2     | 3   | 3   | 3        | 3   | 3   | 3      | 1    | 0    | 0           | 0    | 0    | 0    |
| ÖK4                                                   | 3                                                             | 3   | 4   | 2     | 4   | 3   | 3        | 3   | 3   | 3      | 1    | 0    | 0           | 0    | 0    | 0    |
| ÖK5                                                   | 4                                                             | 3   | 3   | 3     | 3   | 2   | 3        | 3   | 3   | 3      | 2    | 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 |      |      |      |