| YEDITEPE UNIVERSITY<br>COURSE DESCRIPTION AND APPLICATION INFORMATION | | | | | |
|---|---|---|---|---|---|
| **Course Title** | *Code* | *Semester* | *T+A+L Hour* | *Credits* | *ECTS* |
| RE-USE IN TERMS OF SUSTAINABILITY | SIS 515 | 1 | 3 + 0 + 0 | 3 | 7 |

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| **Prerequisites** | - |

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| **Language of Instruction** | English |
| **Course Level** | Master's Degree |
| **Course Type** | Department Elective |
| **Course Coordinator** | |
| **Instructors** | |
| **Assistants** | - |
| **Goals** | The aim of the course is to make students understand traditional construction methods and gain the ability to recognize, investigate and evaluate historic structures; searching options for adaptive reuse of historic buildings, questioning the possibilities of these options and informing students about alternative design methods. |
| **Content** | Content of the course includes, measured drawing techniques and surveying techniques to analyse structural condition and deterioration in cultural assets, photography and documentation for architectural survey, analysis of historic buildings to be conserved, preparatory work before restoration, preparation of surveying and restoration projects, reasons of deterioration in historic buildings, restoration techniques and adaptive reuse of historic buildings |

| **Learning Outcomes** | **Program Learning Outcomes** | **Teaching Methods** | **Assessment Methods** |
|---|---|---|---|
| 1) Student gains the ability to understand the interaction between people and the physical environment. | 2,3,4,8,9 | 3,5,6,8,9,11 | A, C, D |
| 2) Student explains the concept of cultural asset. | 4,5,8,9 | 3,5,6,8,9,11 | A, C, D |
| 3) Student understands the characteristics of buildings to be conserved in accordance to the concept of cultural asset. | 4,5,8,9 | 3,5,6,8,9,11 | A, C, D |
| 4) Student gains the ability to relate past and future and to analyse the relation between old and new. | 3,4,5,8 | 3,5,6,8,9,11 | A, C, D |
| 5) Student gains the ability to analyse and evaluate historic buildings and areas. | 1,5,8 | 1,2,3,4,5,9,12,13 | A, C |

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|---|---|---|---|
| 6) Student explains conservation and adaptive re-use approaches in a local and universal scale. | 2,4,8,9 | 3,4,5,6,8,9 | A, C, D |
| 7) Student gets information on up to date techniques used in conservation and restoration and gains the consciousness to follow the developments on the subject. | 1,12 | 1,2,3,4,5,12,13 | A, C |
| 8) Student gains the ability of using techniques and technologies for surveying and restoration practices in developing conservation and adaptive reuse approaches. | 1,5,6,8,9,12 | 1,2,3,4,5,6,9,12,13 | A, C |
| 9) Student gets information on restoration and conservation practices in Turkey. | 1,9,10,12 | 1,2,3,4,5,12,13 | A, C |

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| **Teaching Methods:** | 1: Lecture, 2: Question and Answer, 3: Discussion, 4: Drill and Practice, 5: Field Trip, 6: Team/Group Work, 9: Demonstration, 12: Case Study, 13: Problem Solving |
| **Assessment Methods:** | A: Testing B: Presentation C: Homework |

**COURSE CONTENT**

| Week | Topics | Study Materials / Preperation |
|---|---|---|
| 1 | Explanation of content, aim, method and evaluation criteria of the course. Introduction to conservation and basic principles of restoration | |
| 2 | Explanation of antiquities, vernacular and traditional architecture. Details of traditional construction methods (masonry walls) | |
| 3 | Explanation of vernacular and traditional houses. Details of traditional construction methods (masonry slabs) | |
| 4 | Explanation of vernacular and traditional houses. Details of traditional construction methods (timber structures) | |
| 5 | Explanation of traditional building types. | |
| 6 | Explanation of traditional building types. | |
| 7 | Midterm Exam | |
| 8 | Studying the examples of national and international re-use and modern restorations and discussions about them | |
| 9 | Studying the examples of national and international re-use and modern restorations and discussions about them | |
| 10 | Defining the design problem according to the given scenario, deciding the study groups and distribution of the sample cases | |

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| 11 | Case study presentations | Seminary |
| 12 | Case study presentations | Seminary |
| 13 | Case study presentations<br>Make-Up Exam | Seminary |
| 14 | Case study presentations | Seminary |
| | | |

| **RECOMMENDED SOURCES** | |
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| **Textbook** | 1. AHUNBAY, Z. (1996), " Tarihi Çevre Koruma ve Restorasyon", YEM Yayın, İstanbul. |
| **Additional Resources** | 1. TAYLA, H. (2007), "Geleneksel Türk Mimarisinde Yapı Sistem ve Elemanları (Cilt I – II), TAÇ Vakfı Yayınları, İstanbul<br>2. Van UFFELEN, C. (2010), "Re-Use Architecture", BRAUN<br>3. WONG, L. (2016), "Adaptive Reuse: Extending the Lives of Buildings", Birkhauser.<br>4. BEKTAŞ, C. (2011), "Halk Yapı Sanatı", Literatür<br>5. HASOL, D. (2018) " Türk Ahşap Konut Mimarisi 1.-19. Yüzyıllar", İş Bankası Yayınları<br>6. KÜÇÜKERMAN, Ö (1985) "Turkish House – In search of Spatial Identity" Türkiye Turing ve Otomobil Kurumu |

| **MATERIAL SHARING** | |
|---|---|
| **Documents** | Lecture notes, reference books and visual material |
| **Assignments** | Producing measured drawings for a building or a part of a building in the content of the course and solving a design problem on that area |
| **Exams** | Mid-term and final end of term exams including theoretical background and a scale drawing |

| **ASSESSMENT** | | |
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| **IN-TERM STUDIES** | **NUMBER** | **PERCENTAGE** |
| Mid-term examination | 1 | 100 |
| **Total** | | **100** |
| CONTRIBUTION OF IN-TERM STUDIES TO OVERALL GRADE | | 50 |
| CONTRIBUTION OF FINAL EXAMINATION TO OVERALL GRADE | 1 | 40 |
| Attendance and contribution to the lecture | 1 | 10 |
| **Total** | | **100** |

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| **COURSE CATEGORY** | Expertise/Field Courses |

| **COURSE'S CONTRIBUTION TO PROGRAM** |
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| No | Program Learning Outcomes | Contribution | | | | |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 1 | Ability to have knowledge about sustainable design principles and application methods. | | | | **X** | |
| 2 | Ability to have knowledge of the history and scope of sustainable design. | | | **X** | | |
| 3 | Ability to explain the general principles of ecological design approaches on an architectural scale. | | | | | **X** |
| 4 | Ability to recognize environmental technologies and use them within the scope of architectural design. | | | | **X** | |
| 5 | Ability to critically evaluate the academic and professional studies on sustainable design. | | | | | **X** |
| 6 | Ability to explain the social extent of sustainability and to research, analyze and critically evaluate the sustainability of cultural heritage. | | | **X** | | |
| 7 | The ability to individually maintain a study on sustainability. | | | | **X** | |
| 8 | The ability to convey an individual and/or group study about sustainability in written, verbal and visual forms. | | | | | **X** |
| 9 | The ability to search for information, use databases and other resources, and conduct an original scientific study. | | | | **X** | |
| 10 | The ability to respect social and cultural rights, be sensitive to the conservation of the natural environment and cultural heritage, and the ability to decide and act with a sense of justice. | | | | | **X** |

| **ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION** | | | |
|---|---|---|---|
| Activities | Quantity | Duration (Hour) | Total Workload (Hour) |
| Course Duration (Including the exam week: 14x Total course hours) | 14 | 3 | 42 |
| Hours for off-the-classroom study (Pre-study, practice) | 14 | 6 | 84 |
| Midterm Exam | 1 | 3 | 3 |
| Presentation | 1 | 40 | 40 |
| Final Exam | 1 | 3 | 3 |
| **Total Work Load** | | | **172** |
| **Total Work Load / 25 (h)** | | | 6.88 |
| **ECTS Credit of the Course** | | | **7** |