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| http://www.murat-kaplan.com/images/liste/Antalya%20Bilim%20%C3%83%C5%93niversitesi%20Logo.jpg | | | **ECTS Course Description Form** | | | | | |
| **PART I ( Senate Approval)** | | | | | | | | |
| **Offering School** | **Faculty of Fine Arts and Architecture** | | | | | | | |
| **Offering Department** | **Department of Architecture** | | | | | | | |
| **Program(s) Offered to** | **Architecture** | | | | | **Area Elective** | | |
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|  | | | | |  | | |
| **Course Code** | **Arc 4503** | | | | | | | |
| **Course Name** | **Green (Sustainable) Urban Design** | | | | | | | |
| **Language of Instruction** | **English** | | | | | | | |
| **Type of Course** |  | | | | | | | |
| **Level of Course** | **Undergraduate** | | | | | | | |
| **Hours per Week** | **Lecture: 3** | | **Laboratory:** | **Recitation:** | **Practical:** | | **Studio:** | **Other:** |
| **ECTS Credit** | **3** | | | | | | | |
| **Grading Mode** | **Letter grades** | | | | | | | |
| **Pre-requisites** |  | | | | | | | |
| **Co-requisites** |  | | | | | | | |
| **Registration Restriction** | Only students of Architecture can take the course | | | | | | | |
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| **Educational Objective:**  The course aims to: | **EO1** | Introduce students to understand what is sustainability and its components and principles | | | | | | |
| **EO2** | Bring students to understand urban design elements and principles | | | | | | |
| **EO3** | Help students construct Green/Sustainable urban design framework from the integration between sustainability principles and urban design principles | | | | | | |
| **EO4** | Enhance students skills to analyze existing urban settings based on the above green urban design framework | | | | | | |
| **EO5** | Enhance students ability to foresee and predict green urban polices for the production of more sustainable urban environment. | | | | | | |
| **Course Description** | Introduction to sustainability and its components and principles as the main source for the green dimension in the built environment. Principles of Urban Design as a main tool for the formation, guidance, development and design of urban form. An account for Green/Sustainable urban design framework from the integration between sustainability principles and urban design principles. Analysis for the contemporary green theories and practices of green urban design and their future trends | | | | | | | |

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| **Learning Outcomes (LO’s)**  students who complete this course will demonstrate understanding and ability in the following areas | 1. **Critical Thinking and Representation** | **LO1**  Communication Skills | *Ability to* read, write, speak and listen effectively. |
| **LO2**  Visual Communication Skills | *Ability to* use appropriate representational media, such as traditional graphic and digital technology skills, to convey essential formal elements |
| **LO3**  Technical Documentation | *Ability* to make technically clear drawings, write outline specifications, and prepare models illustrating and identifying the assembly of materials, systems, and components appropriate for a green urban design. |
| **LO4**  Investigative Skills | *Ability to* gather, assess, record, apply, and comparatively evaluate relevant information within green urban design coursework |
| **LO5**  Use of Precedents | Ability to examine and comprehend the fundamental  principles present in relevant precedents and to make choices regarding the incorporation of such principles into green urban design projects. |
|  | **LO6**  Cultural Diversity | Understanding of diverse needs, values, behavioral  norms, physical abilities, and social and spatial patterns that characterize different cultures and individuals and the implication of this diversity on the societal roles and responsibilities of urban designers; |
| 1. **Integrated Building Practices, Technical Skills, and Knowledge** | **LO7**  Sustainability | *Ability* to design projects that optimize, conserve, or reuse natural and built resources, provide healthful environments for occupants/users, and reduce the environmental impacts of building construction and operations on future generations through means such as carbon-neutral design, bioclimatic design, and energy efficiency. |
| 1. **Leadership and Practice** | **LO8**  Collaboration | *Ability* to work in collaboration with others and in multidisciplinary teams to successfully complete design projects. |
| 1. **LO9** 2. **Human Behavior** | *Understanding* of the relationship between human behavior, the natural environment, and the design of the built environment. |
| **LO10**  Community and Social Responsibility | *Understanding* of the architect’s responsibility to work in the public interest and to improve the quality of life for local and global neighbors. |

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| **PART II ( Faculty Board Approval)** | | | |
| **Program Outcomes (PO’s) and Corresponding (LO’s)** | | | |
| **University-wide** | **PO1** | **Ability** to communicate effectively and write and present in English. | **LO1, LO2, LO3** |
| **PO2** | **Ability** to work individually, and in intra-disciplinary and multi-disciplinary teams. | **LO8** |
| **PO3** | **Recognition** of the need for life-long learning and **ability** to access information , follow developments in science and technology, and continually reinvent oneself. | **LO10** |
| **PO4** | **Knowledge** of sustainable development. | **LO4, LO5, LO6** |
| **PO5** | **Awareness** of sectors and **ability** to prepare a business plan. | **LO7, LO8, LO9, LO10** |
| **Faculty Specific** | **PO6** | **Ability** to generate more interdisciplinary approach within courses of faculty | **LO11** |
| **Department Specific** | **PO7** | **Ability** to integrate the students’ knowledge with the professional experience and academic activities. | **LO1, LO2, LO3, LO4, LO5, LO6, LO7, LO8, LO9, LO10** |

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| **PART III ( Department Board Approval)** | | | | | | | | | | | | |
| **Course Subjects (with corresponding LO’s)** |  | | **Week** | **Subjects** | | | **Details** | | | | **LO’s** | |
| **S1** | | **1** | Sustainability | | | What is sustainability  Elements and principles of sustainability | | | |  | |
| **S2** | | **2** |
| **S3** | | **3** | Urban Design | | | What is urban design  Components of urban design  Principles of urban design | | | |  | |
| **S4** | | **4** |
| **S5** | | **5** | Green dimension in urban design | | | Interconnection between urban design and sustainability: components and elements | | | |  | |
| **6** |
|  | | **7** | Midterm Exam | | |  | | | |  | |
| **S6** | | **8** | Green urban design today | | | Contemporary green theories and practices of green urban design | | | |  | |
| **S7** | | **9** | Future trends | | | future trends in green urban design | | | |  | |
| **S8** | | **10** | Sustainability Impact Assessment | | | Sustainability assessment of urban areas | | | |  | |
| **S9** | | **11** | **Launch of semester project** | | | Project Brief;  Selected Sites;  Definition of Work Groups; | | | |  | |
| **S10** | | **12** | **Site visit** | | |  | | | |  | |
| **S10** | | **13** | **Follow up of semester project** | | | | | | |  | |
| **S11** | | **14** | **Presentation of semester project** | | | | | | |  | |
|  | | **14** | Final Exam | | | | | | |  | |
|  | | | | | | | | | | | | |
| **Assessment Methods, Weight in Course Grade, Implementation and Make-Up Rules** | **No.** | | **Type** | | | **Weight** | **Implementation Rule** | **Make-Up Rule** | | | | |
| **A1** | | **Exam** | | |  |  |  | | | | |
| **A2** | | **Quiz** | | |  |  |  | | | | |
| **A3** | | **Homework** | | |  |  |  | | | | |
| **A4** | | **Report** | | |  |  |  | | | | |
| **A5** | | **Midterm Exam** | | | 25% |  |  | | | | |
| **A6** | | **Final** | | | **35**% |  |  | | | | |
| **A7** | | **Attendance/ Interaction** | | | 15% |  |  | | | | |
| **A8** | | **Semester project** | | | 30% |  |  | | | | |
| **TOTAL** | | | | | **100%** | | | | | | |
| **Evidence of Achievement of Learning Outcomes** | Students will demonstrate learning outcomes through class activities and debates, midterm and final exams. The semester project will examine the understanding of the practical and analytical aspects of urban design and urban form | | | | | | | | | | | |
| **Method for Determining Letter Grade** | Upon successful completion of all assessment methods, the total scores will be averaged and converted into a final  letter grade using the following percentages and grading criteria. | | | | | | | | LETTER GRADE | | | MARKS |
| A+ | | |  |
| A | | | 95-100 |
| A- | | | 85-94 |
| B+ | | | 80-84 |
| B | | | 75-79 |
| B- | | | 65-74 |
| C+ | | | 60-64 |
| C | | | 55-59 |
| C- | | | 50-54 |
| D+ | | | 45-49 |
| D | | | 40-44 |
| F | | | 0-39 |
| **Teaching Methods, Student Work Load** | **No** | **Method** | | | **Explanation** | | | | | **Hours** | | |
| **Time applied by instructor** | | | | | | | | | | | |
| **1** | **Lecture** | | | Lecturing and utilizing whiteboard and slides | | | | | 3hrs per week (10 weeks=30hrs) | | |
| **2** | **Interactive Lecture** | | |  | | | | |  | | |
| **3** | **Recitation** | | |  | | | | |  | | |
| **4** | **Laboratory** | | |  | | | | |  | | |
| **5** | **Practical** | | |  | | | | |  | | |
| **6** | **Field Work** | | |  | | | | | 10hrs | | |
| **Time expected to be allocated by student** | | | | | | | | | | | |
| **7** | **Project** | | | A semester project is assigned in the second half of semester, when the theoretical section related to the chosen material is introduced and weekly tested in the scheduled submissions | | | | | 3hour per week (3weeks=9hrs) | | |
| **8** | **Homework** | | |  | | | | |  | | |
| **9** | **Pre-class Learning of Course Material** | | |  | | | | | 3 hour per week (14weeks= 42hrs) | | |
| **10** | **Review of Course Material** | | |  | | | | |  | | |
| **11** | **Studio** | | |  | | | | |  | | |
| **12** | **Office Hour** | | |  | | | | | 2hour per week (14weeks= 28hrs) | | |
| **TOTAL** | | | | Estimated 119 working hours, 4 ECTS credits | | | | | | | |

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| **PART IV** | | |
| **Instructor** | **Name** | Abdurrahman Mohammed |
| **E-mail** | Abdurrahman.mohammed@antalya.edu.tr |
| **Phone Number** | *05551644602* |
| **Office Number** | *AG48* |
| **Office Hours** |  |
| **Course Materials** | **Mandatory** | llewelyn davies yeang. 2000. Urban design compendium (1&2). Homes and communities agency  T o w n o f c o l l i n g w o o d urban design manual. 2010  LaGro Jr, James A. 2007. Site Analysis: A Contextual Approach to Sustainable Land Planning and Site Design. Wiley |
| **Recommended** | CRISTOPHER, A. (1974). “Notes on the Synthesis of Form”. Harvard University Press;  JACOBS, J. (1961). “The Death and Life of Great American Cities”. NY: Random House;  HABRAKEN, N.J. (2000). “The Structure of the Ordinary”. MIT Press;  KOSTOF, S. (1999) “The City Shaped”. London: Thames & Hudson;  KOSTOF, S. (1999) “The City Assembled”. London: Thames & Hudson;  LYNCH, K. (1984). “Good City Form”. Cambridge: MIT Press;  LYNCH, K. (1960). “The Image of the City”. Cambridge: MIT Press;  HEDMAN, R. (1985). “Fundamentals of Urban Design”. APA Planners Press;  MUMFORD, L. (1968). “The City in History”. Harcourt Brace International;  SCHENK, L. (2013). “Designing Cities”. Basel: Birkhauser;  URBAN DESIGN ASSOCIATES (2003). “The Urban Design Handbook”. NY: W.W. Norton & Company, Inc. |
| **Other** | **Scholastic Honesty** | *Violations of scholastic honesty include, but are not limited to cheating, plagiarizing, fabricating information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. Any of scholastic dishonesty is a serious academic violation and will result in a disciplinary action.* |
| **Students with Disabilities** | *Reasonable accommodations will be made for students with verifiable disabilities.* |
| **Safety Issues** |  |
| **Flexibility** | *Circumstances may arise during the course that prevents the instructor from fulfilling each and every component of this syllabus; therefore, the syllabus is subject to change.  Students will be notified prior to any changes.* |