ANTALYA BİLİM ÜNİVERSİTESİ

DEPARTMENT OF INTERIOR ARCHITECTURE AND ENVIRONMENTAL DESIGN

Course Code	Course Name	Year/Semester	Theory	Practice	Credits	ECTS
IAED 3359	ECOLOGICAL AND BIOCLIMATIC INTERIORS	2023-2024 / SPRING	3	0	3	3

Level of Course: Undergraduate
Course Type: Elective Course
Language of Instruction: English
Course time: Monday, 09.00– 12.00
Course classroom: BB-04
Mode of Delivery: One o one critique, Class Teaching, Presentation, Classwork
Prerequisites and Co-requisites: -
Course Coordinator:

Name of Lecturer(s): Lec. Dr. Setenay UÇAR
Course Teaching Assistant:

Course Objectives: The general objective of the semester course is to strengthen the knowledge and sensitivity towards ecological and sustainable interior design.

Course Description: The course analyses discuss and research the ecosystem, wind orientation, solar energy, thermal systems, cooling/heating loads in interior space, ecological construction methods, bioclimatic design, environmental problems and pollution including air pollution, water pollution, solid wastes and noise pollution. Additionally, the course guides towards an investigation of ecological principles in human relationships, and the interaction with the environment.

Learning Outcomes: **Upon successful completion of the course, students will be able to:**

1. Students will be able to recognize ecological and bioclimatic design concepts and attitudes
2. Students will be able to develop sensitivity towards a need of ecological behavior in our society
3. Students will be able to propose ecological solutions for interior design projects
4. Students will be able to identify research opportunities in this field

Language:

The studio classes and discussions will be in English. Developing your verbal language skills will be very important in acquiring the disciplinary terminology as well as daily communication at the class.

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Text Books: --

Recommended Text Books:

1. 'Bioclimatic design, Springer. Donald Watson, FAIA Trumbull CT, USA
2. Integrated Sustainable Design, Jobs Kristinsson.

For the terminology:

3. Francis D. K. Ching, 2005. *"Interior Design Illustrated,* John Wiley&Sons.
4. Interior Design by Jenny Gibbs
5. Philosophy of Interior Design by Abercrombie, S.

Reading Text books:

6. Bioclimatic Approaches in Urban and Building Design, Springer, Giacomo Chiesa
7. Effective Thermal Insulation: The Operative Factor of a Passive Building Model, Amjad Almusaed
8. "Green from the Ground up, Sustainable, Healty, and EnergyEfficient Home Construction" by David Johnston & Scott Gibson, The Taunton Press, 2008
9. "The New Ecological Home, A Complete Guide to Green Building Options" by Daniel D. Chiras, Chelesa Green publishing Company, 2004

Planned Learning Activities and Teaching Method:

Learning/Teaching Method: This is an elective course and students learn about ecological information by engaging in classwork and presentations. The studio practice is supported by verbal lectures at the beginning of the course and later individual hand-on exercises in the classroom.

Classworks: A series of assignments will be given to students. Students will start doing the assignments in the classroom and continue the assignment at home.

Classwork Development: At the end of each classwork the outcome will be evaluated in the class.

Class Participation: Regular attendance of all enrolled classes is expected. For this course **minimum 70% attendance is expected.** At the end of the Semester, your attendance will be reported on UBS system. Attendance is compulsory and in case of **absenteeism of more than 30%, the system will automatically grade you "FX".** If you miss a class, it is your responsibility to 'make up' all work, including items discussed in class. Class contribution will be measured in terms of quality not quantity.

Academic integrity & plagiarism: Academic integrity is the pursuit of scholarly activity based on the values of: honesty, trust, fairness, respect and responsibility. Practicing academic integrity means never plagiarizing or cheating, never misrepresenting yourself, never falsifying information, never deceiving or compromising the work of others. Basically this means, either intentionally or unintentionally, using the words or ideas of someone else without giving credit, it's strictly forbidden.

Course Text books: There is no specific textbook for this course. Students are required to study the recommended reading text books and also do researches on the variety of architectural presentation techniques.

Key Works: In this studio course assignments mainly focuses on clear and creative ecological and sustainability of design ideas.

Specific Rules:

1. **Be punctual. Punctuality is a sign of respect toward yourself and the others.**
2. Show respect for all the people and property around you.
3. Be responsible for your actions and meet all expectations.
4. Follow directions the first time they are given.
5. Students should use the Internet at school for academic purposes only.
6. It is forbidden to record classes with any type of device.
7. Bringing necessary materials to work in the classroom is obligatory.

Communication: Students are encouraged to visit the professor during their Office Hours. If you cannot make it to announced office hours, please make individual arrangements via e-mail. However, do not expect the professor and the research assistant to respond at length via e-mail to questions of content, definition of terms, grading questions etc. If you have a question that requires a substantive response, please set up an appointment to speak with one of us.

Course Contents*: (Weekly Lecture Plan)

Date	Week	Chapter Topic	Take-home exercise	
12.02.2024	**1**	**-Introduction and general overview and aim of the course**	-	
19.02.2024	**2**	**-Definitions of important concepts (Green Building, Sustainability, Ecology, bioclimatic, sustainable home etc.)**	Presentation Preparation	
26.03.2024	**3**	**-Passive and Smart Bioclimatic Design -wind breaks, thermal envelope, window/walls, sun shading, natural vantilation**	Presentation Preparation	
04.03.2024	**4**	**-Green Interior Design (lighting, furniture, fabric, indoor landscape, finishes etc.) -Indoor air quality, environmental quality**	Presentation Preparation	
11.03.2024	**5**	**-Certification system and buildings (BREEAM, LEED etc.)**	Presentation Preparation	
18.03.2024	**6**	**-Student presentations, -critique**	Midterm Report Preparation	
25.04.2024	**7**	**-Student presentations, -critique**	Midterm Report Preparation	

	8	**MIDTERM**	
08.04.2024	**9**	**NATIONAL HOLIDAY**	
15.04.2024	**10**	**-Case Study** **-Classwork**	Continue with CW
22.04.2024	**11**	**NATIONAL HOLIDAY**	(The make-up lesson will be announced later)
29.04.2024	**12**	**-Case Study** **-Classwork**	Continue with CW
06.05.2024	**13**	**-Classwork** **-Final submission announcement**	Final Poster Preparation
13.05.2024	**14**	**-Final Critiques**	Final Poster Preparation
	FINAL EXAM		

* PLEASE NOTE: Details of the syllabus and course schedule are subject to minor changes that will be announced in class.

Grading: Midterm and final exam projects will be evaluated based on the requirements that will be announced in the classroom. Assignments will be evaluated based on the quality of presentation. Students' progress also will be evaluated throughout the semester based on their performance in classroom. Students with the Final Grade below C- (50) are required to repeat the course.

Assessment Methods and Criteria :	**METHODS**	**EFFECTS ON GRADING**		
	Presentation	20 %		
	Midterm	20 %		
	Classworks	10 %		
	Final	50 %		
ECTS Workload Table :	**ACTIVITIES**	**NUMBER**	**HOUR**	**WORKLOAD**
	Course Teaching Hours	**13**	**3**	**39**
	Presentation	**2**	**3**	**6**
	Classwork	**4**	**3**	**12**
	Midterm Preparation	**1**	**8**	**8**
	Final Preparation	**1**	**10**	**10**

Total Workload	**0**	**0**	**75**
Total workload/25			**75/25**
ECTS			**3**

GRADING AND EVALUATION

Students' grades point lower **than 50** will be considered as failed

Grade Scale:

GRADE	MARKS	VALUE
A+		
A	95-100	4.00
A-	85-94	3.70
B+	80-84	3.30
B	75-79	3.00
B-	65-74	2.70

GRADE	MARKS	VALUE
C+	60-64	2.40
C	55-59	2.20
C-	50-54	2.00
D+	45-49	1.70
D	40-44	1.50
F	0-39	0.00