DEPARTMENT OF INTERIOR ARCHITECTURE AND ENVIRONMENTAL DESIGN

Course Code	Course Name	Year/Semester	Theory	Practice	Credits	ECTS
IAED 4353	High-tech and Smart Interiors	2020-2021/Spring	3	0	3	4

Level of Course: Undergraduate

Course Type: Elective Course

Language of Instruction: English

Course time: Tuesday, 09.00 – 11.50

Office Hours: You can request an appointment

Course classroom:

Mode of Delivery: One o one critique, Class Teaching, Presentation, Assignments, Technical trips

Prerequisites and Co-requisites: Prerequisites: None

Course Coordinator:

Name of Lecturer(s): Course Teaching Assistant: Assoc. Prof. Dr. Mustafa Küçüktüvek

Course Objectives:
To understand high-tech and smart interiors
To know high-tech style architects and constructivism
To research different high-tech spaces
To discover smart technology, material, and design
To know high tech equipment

Course Description: This course covers high-tech and smart interiors. High-tech is an architectural design style that emerged in the Late Modernism period in the 1970s and has been widely used in the 1980s. This style originated in the industrial premises' design, where all the elements are functional. Different elements of industrial aesthetics were used in the living accommodations, where they have been developed into a mixture of high technology and constructivism. The Smart interior illustrates how technology is changing interiors. This course looks at three areas:

- ¬ Smart Technology, which examines five aspects of technology and how it's being integrated specific spaces, lighting design and window treatments; audio and video entertainment; voice and data management; security and access; and environmental controls and energy management.
- ¬ Smart Materials, which shows new building materials such as titanium, electronic glass that can become transparent or opaque at the flick of a switch, polycarbonate materials, laser-perforated metals, all of which are changing the way homes are built and how we use and perceive spaces within these structures.
- ¬ Smart Design looks at more extravagant innovations such as swimming pools cantilevered in mid-air, windows that recreate digital views at night, interior spaces whose functions are transformed through architectural sleight of hand and computer-aided design, all of which point to new ways of thinking about how we live and how we use space in this increasingly space-challenged world.

Learning Outcomes:	**Upon successful completion of the course, students will be able to:** 1. Engage in high-tech and smart interior design practice. 2. Use an investigative approach to design. 3. Compose concepts, scenarios, and user profiles with lifestyle and consistent design ideas, through techniques. 4. Use basic techniques of surveying the context. 5. Apply their conceptual approach to the design.
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.
Text Books:	1. Eco-Tech Sustainable Architecture And High Technology, Catherine Slessor, publisher: Thames & Hudson 2. The Smart House, James Grayson Trulove, Publisher: Harper Design
Recommended Text Books:	3. Ching, F. D. K. Interior Design Illustrated. 4. Miller, S.F. 1995. Design Process: A Primer for Architectural and Interior Design, Wiley London. 5. Jamie G. (2017). New Bathroom Idea Book 6. Mitton M., Nystuen C. (2016). Residential Interior Design: A Guide to Planning Spaces
For the terminology:	
Reading Textbooks:	7. Francis D. K. Ching, 2005. "Interior Design Illustrated, John Wiley&Sons. 8. Interior Design by Jenny Gibbs 9. Philosophy of Interior Design by Abercrombie, S.
Timeline of Architecture and Art history:	10. The Fundamentals of Interior Architecture by John Coles and Naomi House. 11. The Handbook of Interior Architecture and Design edited by Graeme Brooker and Lois Weinthal.
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Planned Learning Activities and Teaching Method:	**Learning/Teaching Method:** This is a design course and students learn about the design process by getting directly involved in the process. The design practice is supported by lectures, case studies, research projects, and group/one-on-one critique sessions. The main teaching medium in the studio is individual critiques. **Project Development:** A series of assignments with an emphasis on the main topic will be offered in this course. In the first half of the semester, assignments will mainly include case studies and midterm project exercises. The second half of the semester will be followed by a high-tech and smart interior design project. For developing the projects **minimum of 80% critiques are expected**. The development of the project will be evaluated by following the project improvement during the critique sessions. **Class Participation:** Regular attendance of all enrolled classes is expected. Do not be late for the class. **Attendance will be taken the first quarter of the class; if you come later you will be**

considered half-attended. At the end of the Semester, your attendance will be reported on the UBS system. Attendance is compulsory and in case of absenteeism of more than 3**0%,** 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. The 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 underline plagiarizing or cheating, never misrepresenting yourself, never falsifying information, never deceiving or compromising the work of others. This means, either intentionally or unintentionally, using the words or ideas of someone else without giving credit, it's strictly forbidden.

Course Textbooks: Students are required to study recommended reading textbooks and also do researches on a variety of architectural presentation techniques.

Key Works: In this design course lectures and assignments mainly focus on user requirements, critical thinking, elements of design, and the awareness of basic concepts, factors, functions, and materials in designing a space.

Specific Rules:

1. Be punctual. Punctuality is a sign of respect toward yourself and 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. No candies or gums are allowed during classes.
6. Students should raise their hands to signal a question or to answer a question.
7. Students should use the Internet at school for academic purposes only.
8. It is forbidden to record classes with any type of device.
9. Each student has a different learning style. Please create your strategy to learn the topics mentioned in Syllabus.
10. If you request, the instructor may repeat a lecture in the class or during office hours and explain the subjects that you do not understand.
11. Students will be prepared for market conditions and their professional life during the education period. Everyone will be treated equally and fairly. Please do not expect privileged or special treatment from your instructor.
12. Please send your requests about the course to the instructor without delay. When the training process is completed, it is not possible to fulfill any demand.

Communication:

If you have any questions about the syllabus, your responsibilities in the course, and assessment procedures please ask your instructor without any delay.

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, the

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
04.03.2021	1	- Course introduction	
11.03.2021	2	- The principles of high-tech and smart interiors	Assignment 1
18.03.2021	3	-Smart technology	Assignment 2
25.03.2021	4	-Smart materials	Assignment 3
01.04.2021	5	-Smart design ideas	Assignment 4
08.04.2021	6	-Smart design ideas	Assignment 5
15.04.2021	7	-Smart design ideas	Assignment 6
	8	- MIDTERM submission	
29.04.2021	9	**Design project** Design survey and preparing the client brief	
06.05.2021	10	**Design project** Preparing 1/20 scale plan	
13.05.2021	11	**Design project** Shaping concept and scenario	
20.05.2021	12	**Design project** Preparation of high-tech equipment list	
27.05.2021	13	**Design project** High-tech materials	
03.06.2021	14	**Design project**	
		Final Submission	

* 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 responses will be evaluated for accuracy, thoughtfulness, and clarity. Assignments will be evaluated for content, quality of ideas, and clarity of presentation (including all necessary materials).

Assessment Methods and Criteria :

METHODS	EFFECTS ON GRADING

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Participation, Critiques, and Project Developments	20%
Midterm submission	30%
Final Submission	50%

ECTS Workload Table :

ACTIVITIES	NUMBER	HOUR	WORKLOAD
Course Teaching Hours	14	3	42
Assignments	6	6	36
Project Developments	1	16	16
Midterm submission	1	3	3
Final Submission	1	3	3
Total Workload			**100**
Total workload/25			**100/25**
ECTS			**4**

GRADING AND EVALUATION

The students' progress will be evaluated throughout the semester.
Grade Scale:

GRADE	MARKS	VALUE
A+	100	4.00
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	2.30
C	55-59	2.00
C-	50-54	1.70
D+	45-49	1.30
D	40-44	1.00
F	0-39	0.00