EVALUATING THE INCORPORATION OF ECOLOGICAL CONSCIOUS BUILDING DESIGN METHODS IN ARCHITECTURAL EDUCATION

This part will be asked simultaneously from the active students and lecturers of the Faculty of Architecture and Fine Arts. The survey is designed to make an Analytical Hierarchy Model aiming to evaluate the effectiveness of an "Ecological Conscious Building Design" course in enhancing architectural design education and promoting ecological consciousness among future architecture practitioners.

The questions will be answered after reading and voluntary acceptance of the consent form.

1. Which design studio did you have during the current semester?

INTRODUCTORY DESIGN STUDIO-I	ARCHITECTURAL DESIGN STUDIO-I	ARCHITECTURAL DESIGN STUDIO-III	ARCHITECTURAL DESIGN STUDIO-V
INTRODUCTORY DESIGN STUDIO-II	ARCHITECTURAL DESIGN STUDIO-II	ARCHITECTURAL DESIGN STUDIO-IV	GRADUATION PROJECT

Gender

1-Female	2- Male	3- Prefer not to say

Age

	Prefer not to say

Status

Lecturer	Student	Other

Information and instructions about the survey:

To build the multi-criteria evaluation model, you are asked to compare criteria and alternatives against one another. The research examines the alignment between the course curriculum and the Leadership in Energy and Environmental Design (LEED) certification system criteria, assessing the following criteria:

1. Location and Transportation
2. Sustainable Sites
3. Water Efficiency
4. Energy and Atmosphere
5. Materials and Resources
6. Indoor Environmental Quality
7. Innovation
8. Regional Priority

Accordingly, this study attempts to evaluate the effectiveness of the course in enhancing architectural design education and promoting ecological consciousness among future architecture practitioners. In

order to do this, we kindly ask you as a professional lecturer or as upper-level students to compare these alternatives/criteria together. In each section, you are presented with two options, please compare them according to the example provided below:

In your opinion if: Numeric Values

Option A and Option B are equally important: Mark 1

Option A is moderately more important than Option B: Mark 3

Option A is strongly more important than Option B: Mark 5

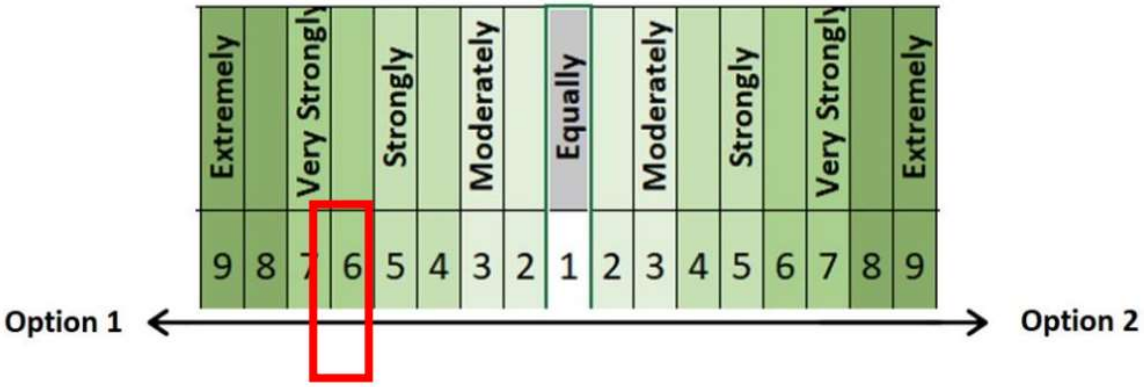
Option A is very strongly more important than Option B: Mark 7

Option A is extremely more important than Option B: Mark 9

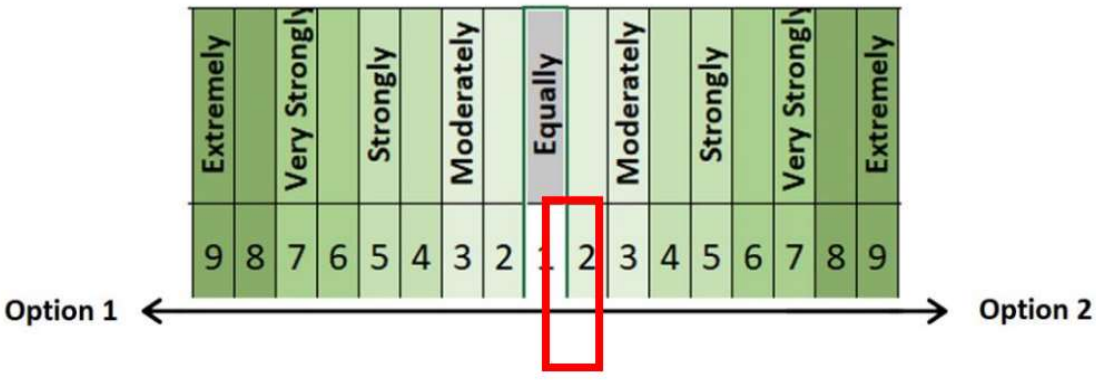
Use even numbers for intermediate judgements Mark 2, 4, 6, 8

Example:

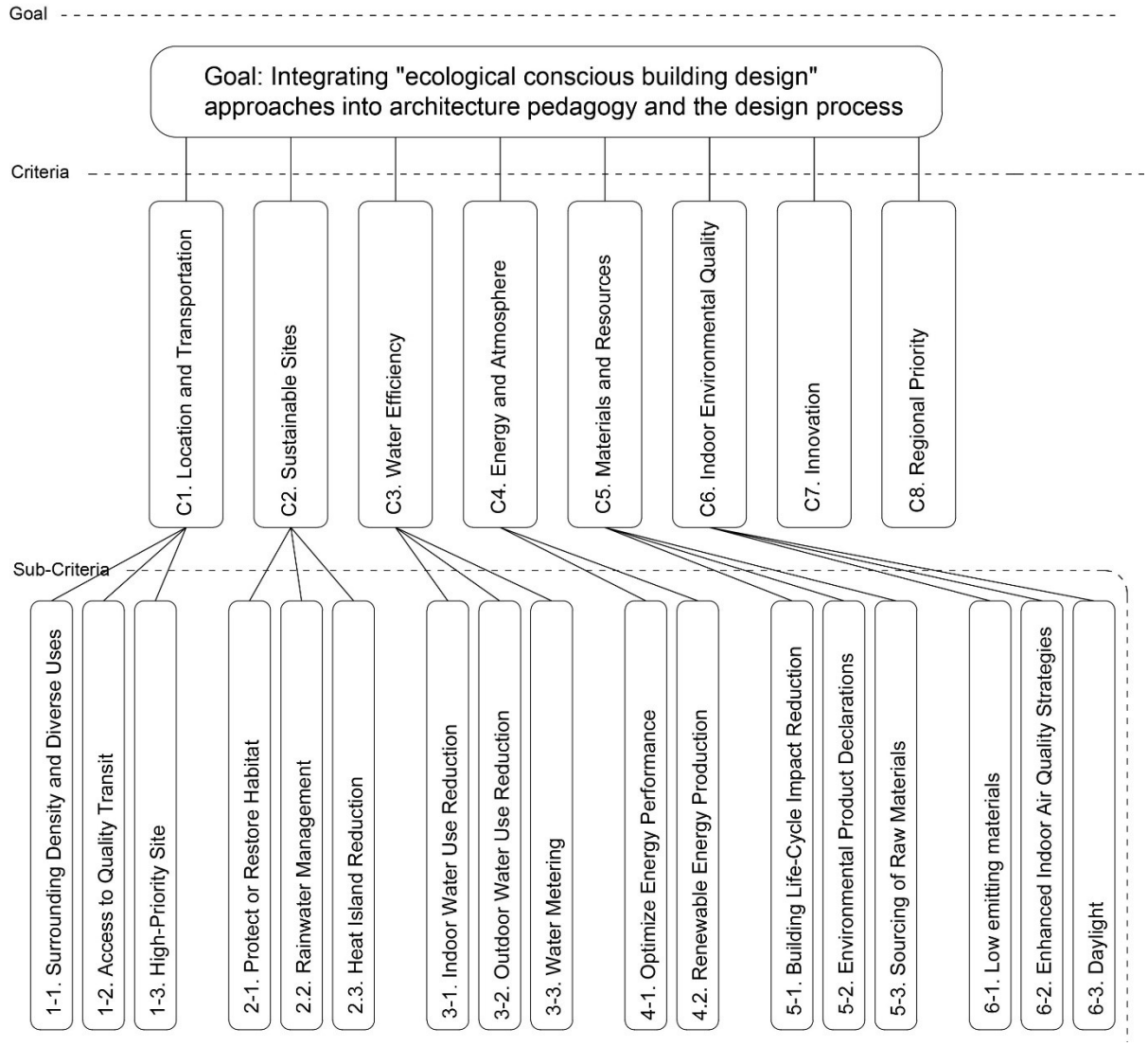
If presented option 1 is very strongly more important than Option 2, mark 7 closest to Option 1



If presented option 1 and option 2 are equally important in your opinion mark 1



This scale conducts a pair comparison between all the criteria and alternatives presented in the following diagram:



Thank you very much for your participation.

1.When aiming to integrate "Ecological Conscious Building Design" approaches into your design, how do you assess the importance of the following criteria in comparison to one another?																			
	Option 1	Extremely		Very Strongly		Strongly		Moderately		Equally		Moderately		Strongly		Very Strongly		Extremely	**Option 2**
C	**1. Location and Transportation**	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	2. Sustainable Sites
C	**1. Location and Transportation**	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	3. Water Efficiency
C	**1. Location and Transportation**	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	4. Energy and Atmosphere
C	**1. Location and Transportation**	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	5. Materials and Resources
C	**1. Location and Transportation**	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	6. Indoor Environmental Quality
C	**1. Location and Transportation**	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	7. Innovation
C	**1. Location and Transportation**	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	8. Regional Priority
C	2. Sustainable Sites	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	3. Water Efficiency
C	2. Sustainable Sites	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	4. Energy and Atmosphere
C	2. Sustainable Sites	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	5. Materials and Resources
C	2. Sustainable Sites	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	6. Indoor Environmental Quality
C	2. Sustainable Sites	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	7. Innovation
C	2. Sustainable Sites	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	8. Regional Priority
C	3. Water Efficiency	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	4. Energy and Atmosphere
C	3. Water Efficiency	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	5. Materials and Resources
C	3. Water Efficiency	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	6. Indoor Environmental Quality
C	3. Water Efficiency	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	7. Innovation
C	3. Water Efficiency	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	8. Regional Priority
C	4. Energy and Atmosphere	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	5. Materials and Resources
C	4. Energy and Atmosphere	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	6. Indoor Environmental Quality
C	4. Energy and Atmosphere	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	7. Innovation
C	4. Energy and Atmosphere	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	8. Regional Priority
C	5. Materials and Resources	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	6. Indoor Environmental Quality
C	5. Materials and Resources	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	7. Innovation
C	5. Materials and Resources	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	8. Regional Priority
C	6. Indoor Environmental Quality	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	7. Innovation
C	6. Indoor Environmental Quality	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	8. Regional Priority
C	7. Innovation	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	8. Regional Priority

C1-SUB. When aiming to integrate "Ecological Conscious Building Design" approaches into your design, which sub-criteria of **"Location and Transportation"** do you believe is more important than the others?																			
	Option 1	Extremely		Very Strongly		Strongly		Moderately		Equally		Moderately		Strongly		Very Strongly		Extremely	**Option 2**
C1	1-1. Surrounding Density and Diverse Uses	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	1-2. Access to Quality Transit
C1	1-1. Surrounding Density and Diver	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	1-3. High-Priority Site
C1	1-2. Access to Quality Transit	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	1-3. High-Priority Site

C2-SUB. When aiming to integrate "Ecological Conscious Building Design" approaches into your design, which sub-criteria of **"Sustainable Sites"** do you believe is more important than the others?

	Option 1	Extremely		Very Strongly		Strongly		Moderately		Equally		Moderately		Strongly		Very Strongly		Extremely	Option 2	
C2	2-1. Protect or Restore Habitat	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	2.2. Rainwater Management	C2
C2	2-1. Protect or Restore Habitat	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	2.3. Heat Island Reduction	C2
C2	2.2. Rainwater Management	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	2.3. Heat Island Reduction	C2

C3-SUB. When aiming to integrate "Ecological Conscious Building Design" approaches into your design, which sub-criteria of "**Water Efficiency**" do you believe is more important than the others?

	Option 1	Extremely		Very Strongly		Strongly		Moderately		Equally		Moderately		Strongly		Very Strongly		Extremely	Option 2	
C3	3-1. indoor Water Use Reduction	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	3-2. Outdoor Water Use Reduction	C3
C3	3-1. indoor Water Use Reduction	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	3-3. Water Metering	C3
C3	3-2. Outdoor Water Use Reduction	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	3-3. Water Metering	C3

C4-SUB. When aiming to integrate "Ecological Conscious Building Design" approaches into your design, which sub-criteria of "**Energy and Atmosphere**" do you believe is more important than the others?

	Option 1	Extremely		Very Strongly		Strongly		Moderately		Equally		Moderately		Strongly		Very Strongly		Extremely	Option 2	
C4	4-1. Optimize Energy Performance	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	4.2. Renewable Energy Production	C4

C5-SUB. When aiming to integrate "Ecological Conscious Building Design" approaches into your design, which sub-criteria of "**Materials and Resources**" do you believe is more important than the others?

	Option 1	Extremely		Very Strongly		Strongly		Moderately		Equally		Moderately		Strongly		Very Strongly		Extremely	Option 2	
C5	5-1. Building Life-Cycle Impact Red	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	5-2. Environmental Product Declarati	C5
C5	5-1. Building Life-Cycle Impact Red	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	5-3. Sourcing of Raw Materials	C5
C5	5-2. Environmental Product Declar	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	5-3. Sourcing of Raw Materials	C5

C6-SUB. When aiming to integrate "Ecological Conscious Building Design" approaches into your design, which sub-criteria of "**Indoor Environmental Quality**" do you believe is more important than the others?

	Option 1	Extremely		Very Strongly		Strongly		Moderately		Equally		Moderately		Strongly		Very Strongly		Extremely	Option 2	
C6	6-1. Low emitting materials	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	6-2. Enhanced Indoor Air Quality Stra	C6
C6	6-1. Low emitting materials	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	6-3. Daylight	C6
C6	6-2. Enhanced Indoor Air Quality St	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	6-3. Daylight	C6

C7-SUB. When aiming to integrate "Ecological Conscious Building Design" approaches into your design, which sub-criteria of "**Innovation**" do you believe is more important than the others?																			
	Option 1	Extremely		Very Strongly		Strongly		Moderately		Equally		Moderately		Strongly		Very Strongly		Extremely	**Option 2**	
C7	7-1. Originality	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	7-2. Practicality	C7
C7	7-1. Originality	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	7-3. Uniqueness	C7
C7	7-1. Originality	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	7-4. Feasibility	C7
C7	7-1. Originality	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	7-5. Adaptability	C7
C7	7-2. Practicality	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	7-3. Uniqueness	C7
C7	7-2. Practicality	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	7-4. Feasibility	C7
C7	7-2. Practicality	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	7-5. Adaptability	C7
C7	7-3. Uniqueness	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	7-4. Feasibility	C7
C7	7-3. Uniqueness	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	7-5. Adaptability	C7
C7	7-4. Feasibility	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	7-5. Adaptability	C7