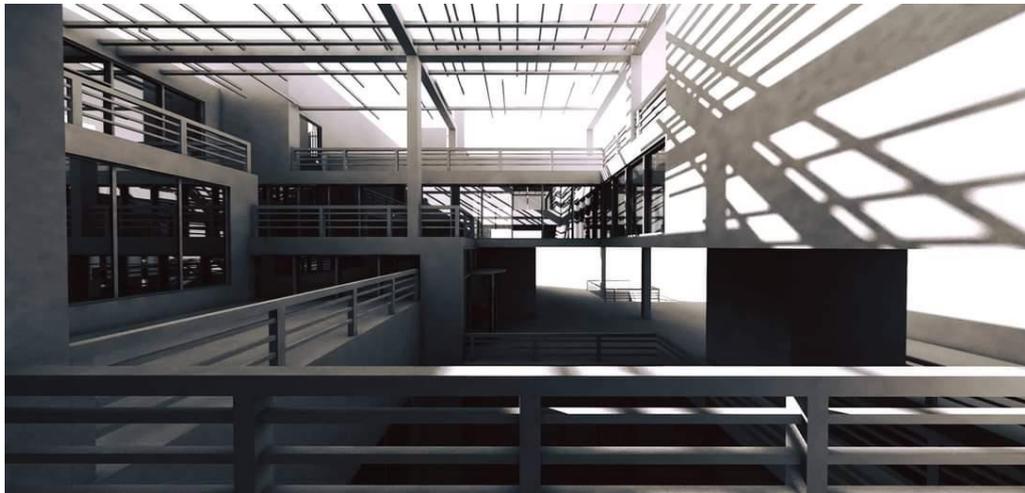


المركز الاول بمسابقة تصاميم ابداعية للمساكن الخضراء JO Green

فاز طلاب جامعة فيلادلفيا بالمركز الاول بمسابقة تصاميم ابداعية للمساكن الخضراء (JO Green) حيث تستهدف المسابقة فئة الشباب من طلبة البكالوريوس في التخصصات الهندسية لتحفيزهم نحو العمل كفرق متكاملة التخصصات لإيجاد حلول مبتكرة للقضايا والتحديات التي يواجهها الأردن في مجال الطاقة والمياه والبيئة والاقتصاد والتغير المناخي والتي ترتبط بتصميم المباني واستخدامها لترسيخ ثقافة المباني الخضراء. شارك قسم هندسة العمارة ممثلاً بالطلاب محمود فواز ومعتز النجار تحت اشراف م.مليكة الظاهر وم.صفاء النعيمي و م.نور القرم وم.هديل القضاة.

حيث فاز بالجائزة الأولى وقيمتها 2000 دينار الفريق المكون من الطلبة معتز راغب النجار / هندسة عمارة من جامعة فيلادلفيا، والطالب محمود فواز أبو قزازه / هندسة عمارة من جامعة فيلادلفيا، والطالب سامي دقماق /هندسة مدنية من جامعة فيلادلفيا والطالب أحمد حجارة / هندسة ميكانيك من جامعة فيلادلفيا.

وقد تم تقييم تصاميم المشاريع المشاركة في المسابقة من قبل فريق تحكيم مستقل من الخبراء ووفقاً لمعايير دليل المباني الخضراء الأردني منها الابتكار والإبداع والاستدامة وتكامل الحلول والجدوى الاقتصادية.



GREEN DEVELOPMENT CENTER

Site Analysis

Location : the site is located in alkhatabyehh village, madaba, Jordan 1780 m from madaba city center. the site can be reached from ...st.
Site area = 1496 m²

Climate Analysis

Temperature, Humidity, Sun hours, Rainfall, Wind Frequency, Wind Speed

Sustainability

Sustainable architecture lays the foundation for a better future. The average consumption of energy has significantly increased since 1990 70% off annual green house gas emissions are accounted to energy sources. Residences Alone are responsible for 10 of That Sustainable Architecture. Employs A series of techniques that seek to minimize our impact on the planet

ECONOMICS **ECOLOGY** **POLITICS** **CULTURE**

CIRCLES OF SUSTAINABILITY

Monthly Wind Roses

Sustainable Approach

Sustainability

Environmental Sustainability
Energy Efficiency, Water, Materials, Green Building

Social Sustainability
Human Comfort, Social Equity, Safety, Accessible Design, Sense of Community

Economic Sustainability
Cost-Effectiveness, Durability & Maintenance, Energy Efficiency, Green Building Certification, Life Cycle Cost

Building Elements

Site and Landscape
Wind
Shade & Shadow Study
Scale Pedestrian Circulation

Modeling

Coupled with the way in which light plays on its surfaces. Daylight by its nature gives meaning and adds our understanding of a shape or space by its directional flow is meaning which is emphasized even further by the addition of direct sunlight.

- 1- Choose the shape because its compact shape to lose minimum amount of energy
- 2- Define a global open court yard, it becomes the context to the highest possible level.
- 3- Wind effect: carving the pure mass model to that shape as the natural vents rise can regulate of gases
- 4- View the view out from the window: direct contact with the world outside it provides the information which for rooms already mentioned, allows us to transcend the time of day, changes in the weather, daylight and seasons.
- 5- Sun light effect: make some variations on masses heights, which breaks in and regulates it with other to make changes in pressure
- 6- Change density: the natural change from day to night, less bright sunlight to dark and cloudy or rainy days. The mass defines and capacity for change, leading to the ability to vary or high response of the day in interior. Change is as the knowledge day lighting, the human body has a capacity for adjustment, particularly in room, and the need to reverse the response.
- 7- Health: to study the qualitative and quantitative aspects of daylight, including daylight rates to guess whether an interior is well-lit. Poor lighting can affect human health, body designed or poorly maintained lighting can cause stress and lead to various form of complaint, eye discomfort, etc. or posture
- 8- Orientation: the aim is to ensure the maximum availability of useful natural light and sunlight to the interior. Select a specific orientation for a particular use of room

