



## **Project (2): Contemporary Techniques for Furniture design & Manufacture**

### **Participated Students:**

- 1- Noha Elsayed Mohamed
- 2- Norhan Alaa Abd allah
- 3- Mina Somouel
- 4- Mohamed Adel Madkour
- 5- Mahmoud Mohamed Moussa
- 6- Mina Reda Zaki
- 7- Essam Magdy Taha
- 8- Randa Ahmed Mohamed
- 9- Hatem Khaled Hamoda
- 10- Ahmed Mohamed Mokhtar

### **Project Summary:**

#### **Project Description :**

The main concept is based on creating an innovative indoor and out door furniture unit

Characterized by aesthetic shape and functional aspects concerning the study of light and shade, balance and Material ..... etc.

#### **Project's design phases :-**

- 1- Analysis for the idea and choosing the concept .
- 2- Prototype phase with the appropriate scale.
- 3- Prototypes' evaluation and choosing the most convenient projects with regard to constructional issues (Making groups at least 5 students in each group ).
- 4- Choosing the appropriate material for the constructional unit
- 5- Studying the suitable joints for each connection
- 6- Light and shade studies
- 7- Computer Aided Design (CAD) , Computer Aided Manufacturing (CAM) for form generation and fabrication
- 8- Final fabrication phases
- 9- Digital Fabrication procedures within specialized machines
- 10- Final assembly phase, scale 1:1



### **Project's Objectives**

- 1- Studying the integration between the specific course curriculum and contemporary design strategies and techniques through the third year students' projects, Interior design and furniture department
- 2- Designing the interior spaces for the Arts and Design building at Pharos University, in addition to designing innovative indoor and outdoor furniture units
- 3- Raising the aesthetics and civilized standards through designing indoor and outdoor furniture units based on innovative strategies within digital fabrication technologies
- 4- Applying the functional and aesthetics criteria concerning the indoor and outdoor units
- 5- Helping students to acquire the required knowledge for using the Computer Aided Design and Computer Aided Manufacturing strategies for developing contemporary design and fabrication approaches
- 6- Encouraging the students to make use of their studied course curriculum in order to address social and environmental issues