**Maryam Alabdulhadi – Weiam Abed “Collaborated Work”**

**3’rd Main Task in Mechanical department.**

**Build a robot on Cinema 4D and design the eyes:**

**Morphological analysis**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Main elements** | **Sections** | | | |
| **Number of eyes** | 1 eye | 2 eyes | 3 eyes | jointed |
| **Type of eye** | Realistic | Animated | robotic | Dots |
| **material** | Plastic | Fiberglass” Screen” | Hard Paper “Painter | LED |
| **Eye Color** | Green | Blue | Rainbow “Changed” | Red |
| **Shape of eyes** | Circle | Oval | rectangle | Mix of shapes |
| **Movement of eyes** | Open all the time | Open and close every 10 seconds | Open and close by choice(command) | Open and closed depend on the robot responses |

**Our choice is the following:**

**Number of eyes** : 2 jointed eyes

**Type of eye:** Animated

**Material:** Fiberglass” Screen”

**Eye Color:** Rainbow “Changed”

**Shape of eyes:** Mix of shapes “ Circle and rectangle combined”

**Movement of eyes:** Open and close every 10 seconds + Open and closed depend on the robot responses

Reason: We chose the animated screen for the robot eyes to make it more fun and futuristic, also the screen will change the shape of the robot’s eyes to show more emotions depending on the event, this will allow the robot to connect with the viewer in a fun and emotional level and deliver the best quality and achieve its goal of communication.

Note: we designed the robot eye to give you a better idea of what we imagined, please check the attached photos ☺.

Thank you.