

# **Task 1**

## **Project Sheet**

### **Faris Alzahrani**

# **Project Plan**

## **Project Description:**

The main purpose for the project is to design Robot Arm that can be controlled remotely via internet to use it in robot-wrestling.

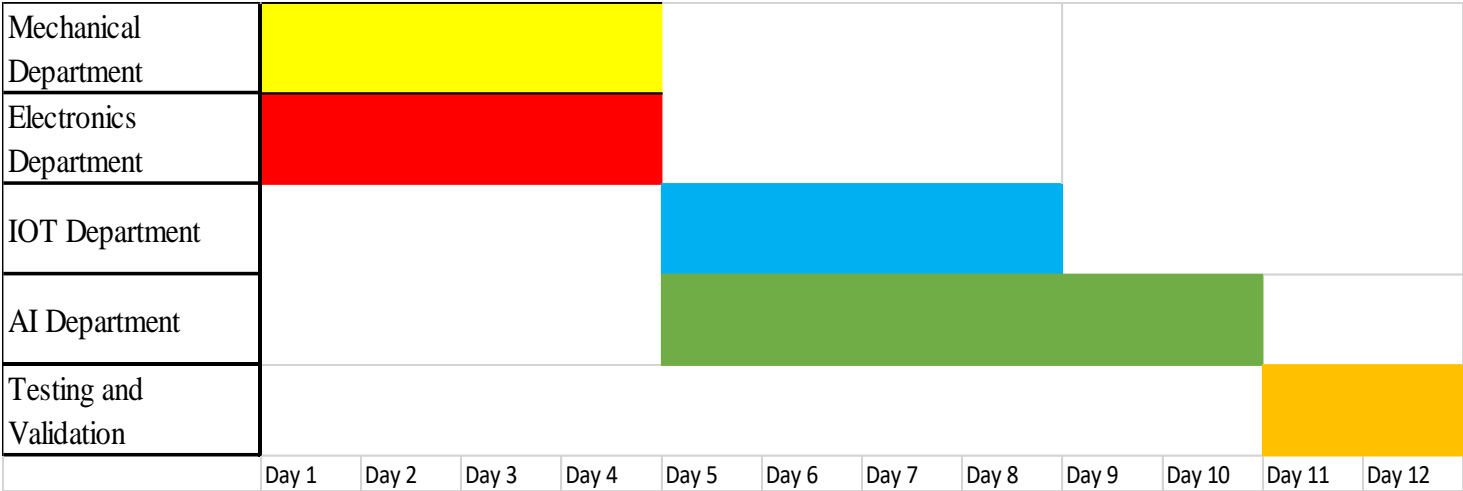
## **Robot Arm Details:**

The arm will have a base, three joints, links, and sharp end effectors. Moreover, there will be five motors to move the arm at specific rotation angle.

## Distribution of Tasks

Mechanical Department	1- Parts assembly. 2- Design end effectors. 3- Add degree of freedom.
Electronics Department	1- Design an electronic circuit to control five servomotors. 2- Program the electronic circuit so that all motors are at 90 degrees.
IOT Department	1- Design user interface to control the arm. 2- Build up database for the arm. 3- connect the user interface to the database. 4- Build up PHP pages to connect the database to the hardware.
AI Department	1- Install the arm packages on ROS system. 2- Connect ROS System to control board. 3- Write the codes using C++ or Python.

# Project Timeline



# Production Line

