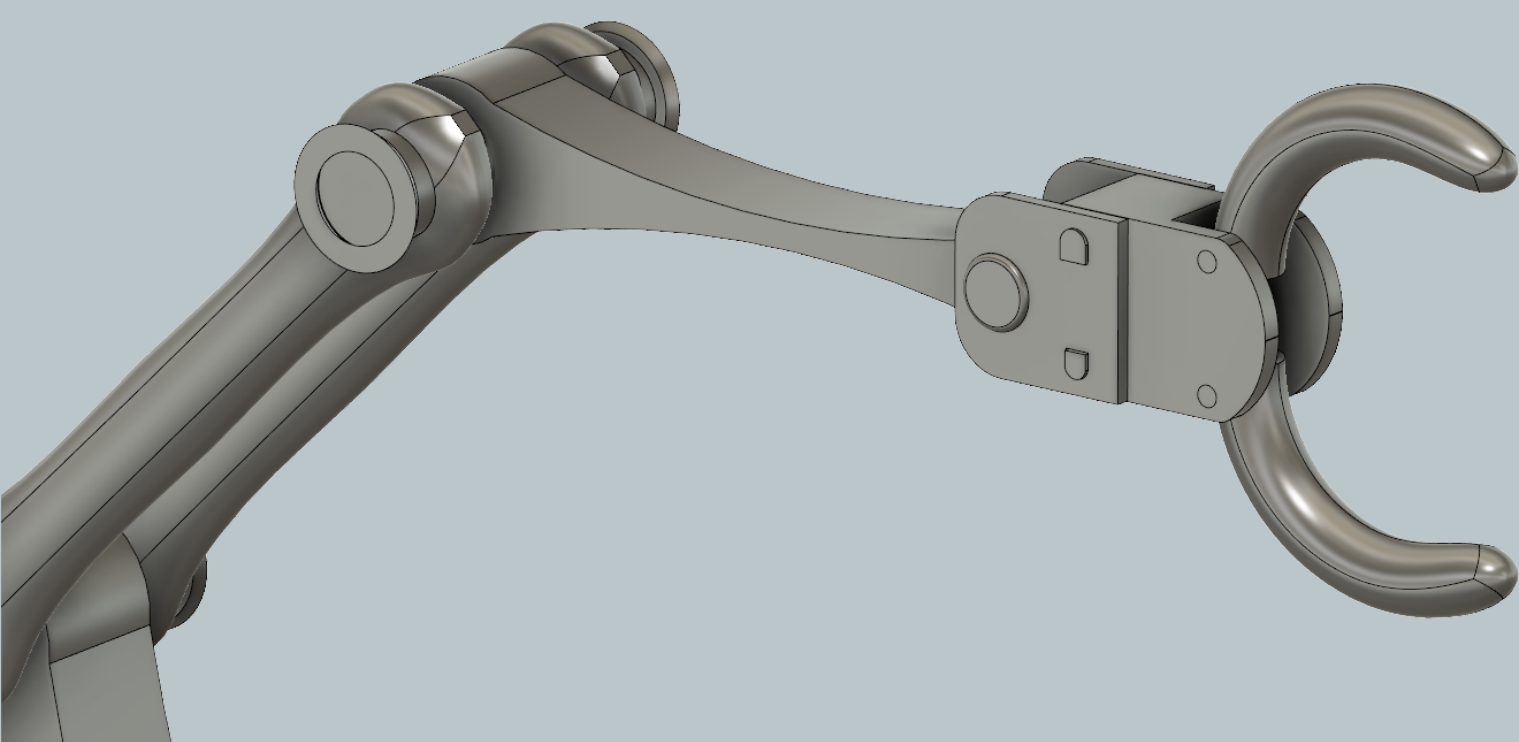


ROBOT ARM PROJECT

For Smart Methodes Copmany



Prepared by : Wesam Al-jurish

PROJECT IDEA

Design a Robotic Arm and programmed it to participate in the Robotic Arms competition.

The competition is starts by putting two Robotic Arms in the ring with a balloon behind each one, then they try to destroy the balloon of the other Arm.



GROUP ORGANIZATIONAL STRUCTURE

INDUSTRIAL AND SYSTEM ENGINEERING
DEPARTMENT (Group Leader)

ELECTRONICS AND
POWER DEPARTMENT

INTERNET OF THINGS
DEPARTMENT

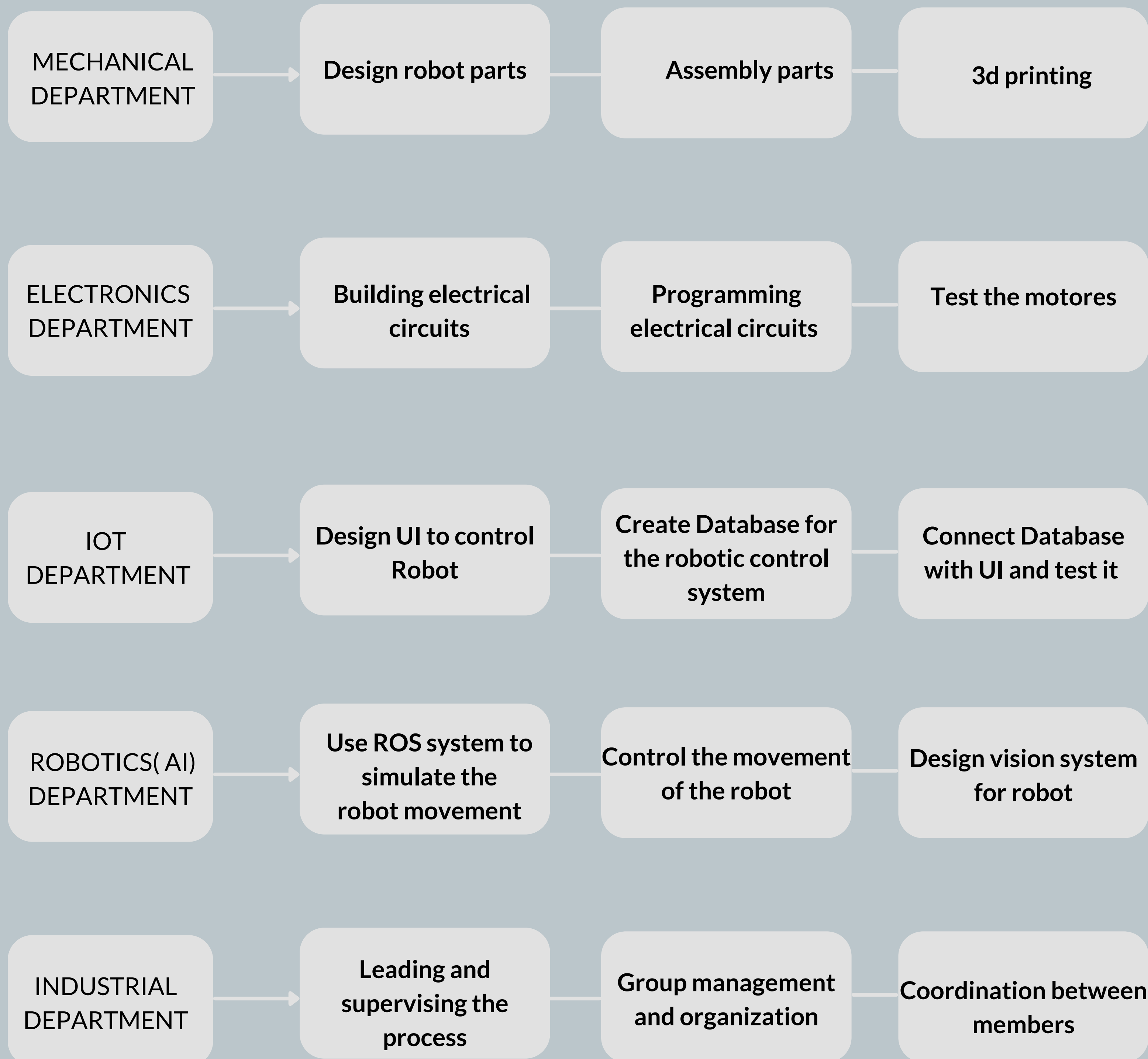
MECHANICAL
DEPARTMENT

ROBOTICS
AND AI DEPARTMENT

PROJECT PLAN

- 1.Planning for the project by gathering all the team members and discussing the mechanism of the project.
- 2.Divide tasks between team members and define deadline to complete the project's tasks
- 3.Choose all the required electrical (electric circuits) and mechanical (materials) parts
- 4.Starts the mental visualization of structure, the drawing and way of implementation it on real-life.
- 5.Start printing the robot parts, design convenient electric circuits, develop the web page controller and combine robot with AI to make it smarter

DISTRIBUTION OF TASKS



TIMELINE

	Mon	Tues	Wed	Thurs	Fri
MECHANICAL DEPARTMENT	Design robot parts		Assembly parts	3d printing	
ELECTRONICS DEPARTMENT	Building electrical circuits		Programming electrical circuits		Test the motores
IOT DEPARTMENT	Design UI to control Robot			Create Database for the robotic control system	Connect Database with UI and test it
ROBOTICS(AI) DEPARTMENT	Use ROS system to simulate the robot movement	Control the movement of the robot		Design vision system for robot	

PRODUCTION LINE.

