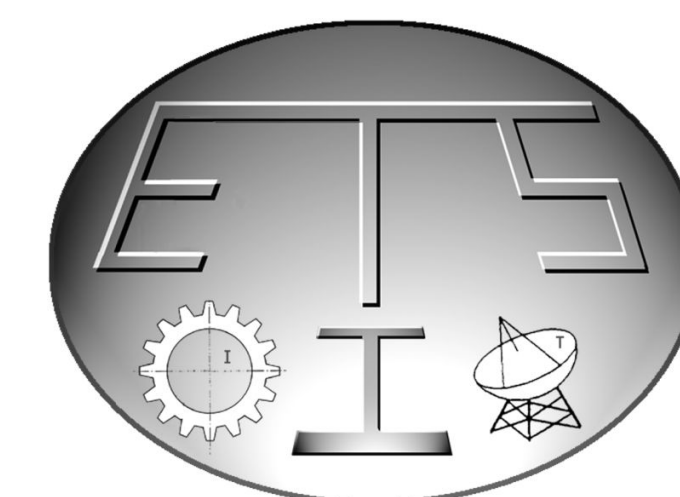


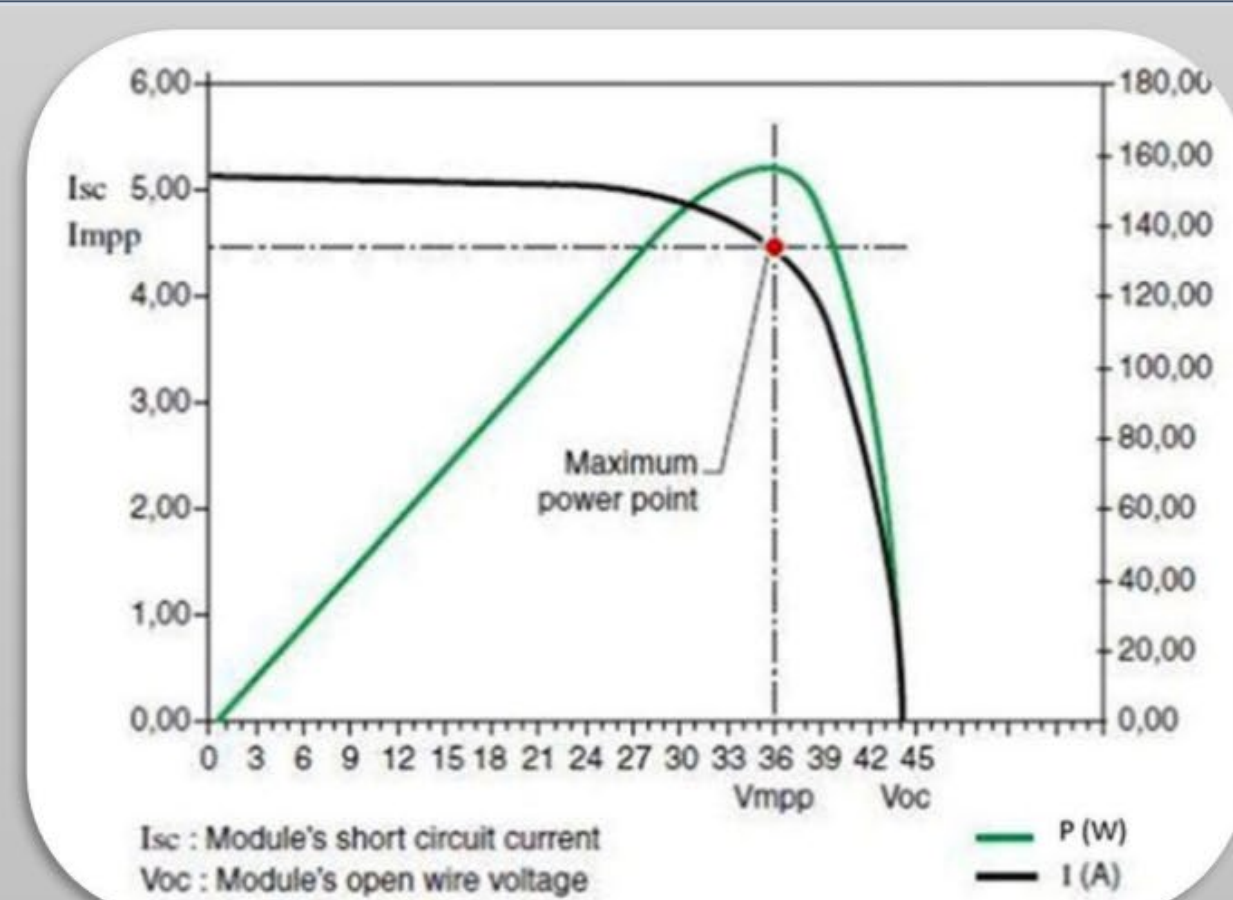


Departamento de Ingeniería Eléctrica, Electrónica y de Comunicación

Pablo Tobalina, Hugo Collantes, Gabriel Cuesta



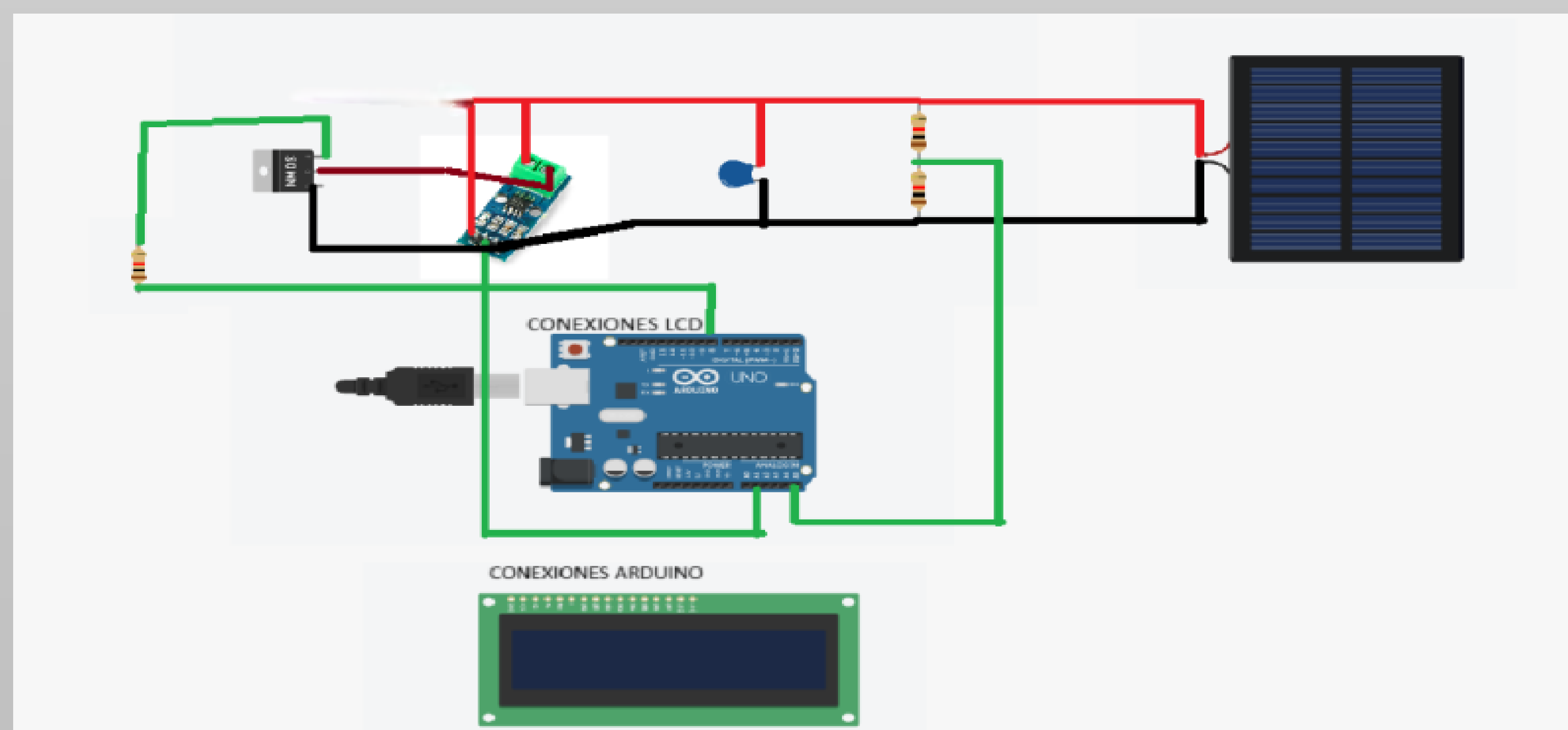
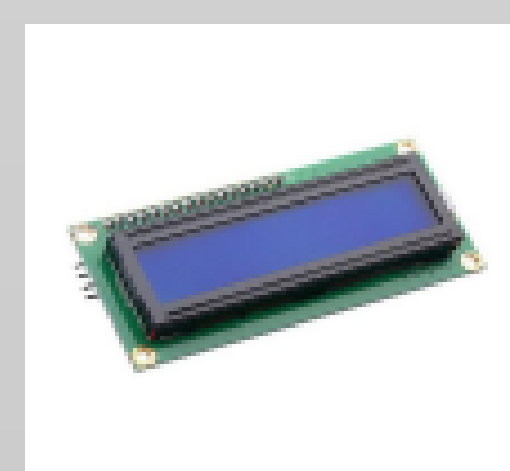
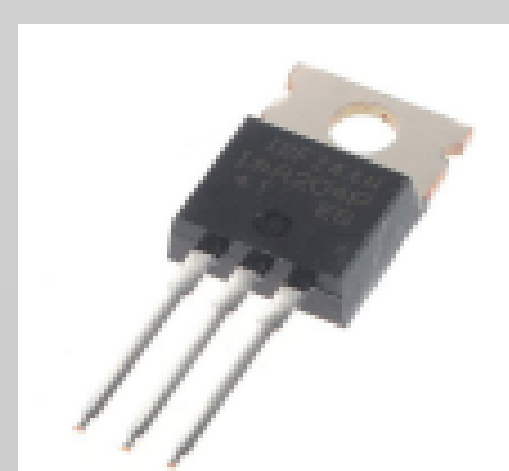
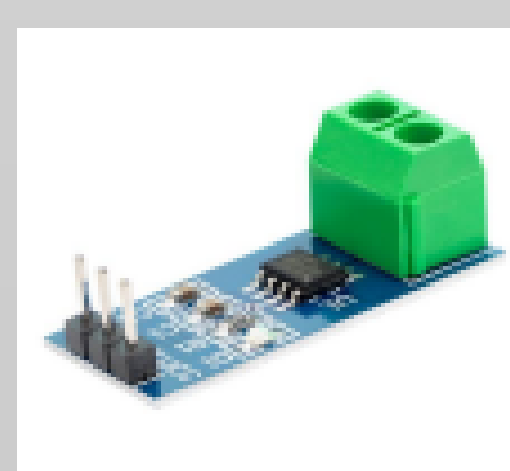
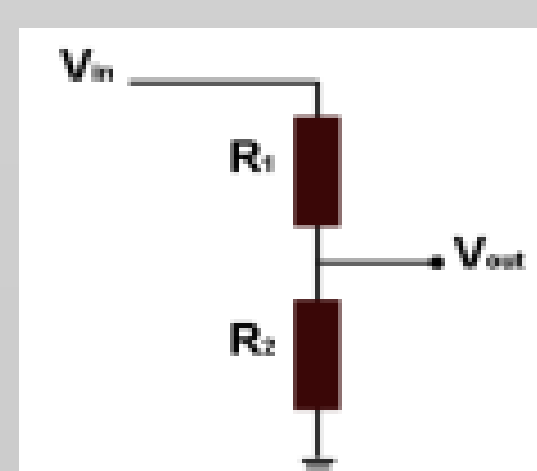
## OBJECTIVES AND SUMMARY



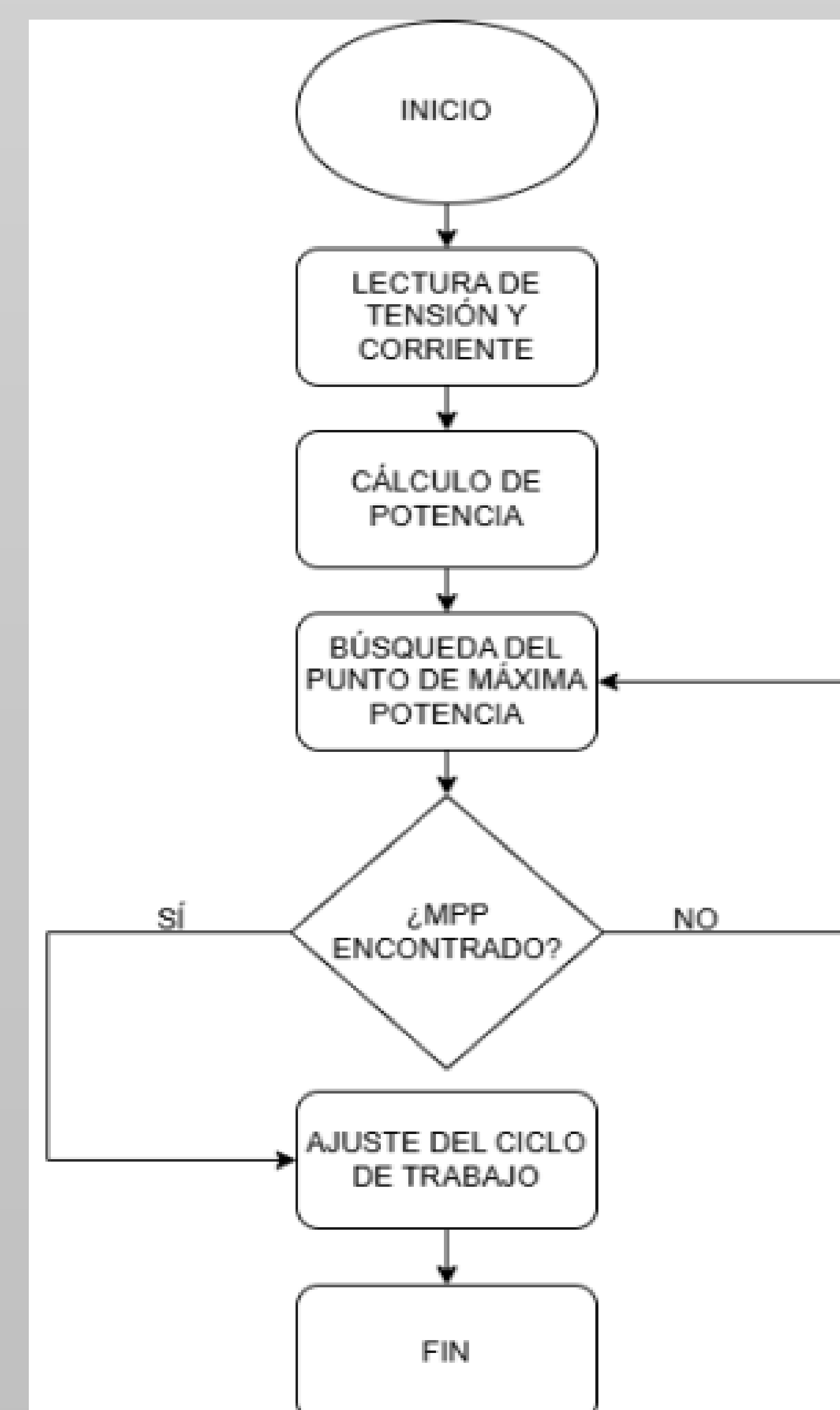
- Real-time Voltage and Current Measurement -> Maximum Power
- Apply Pulse Width Modulation (PWM)
- Validate System Behavior Under Different Light Intensity Levels

## PROJECT DESIGN

### COMPONENTS AND CIRCUIT

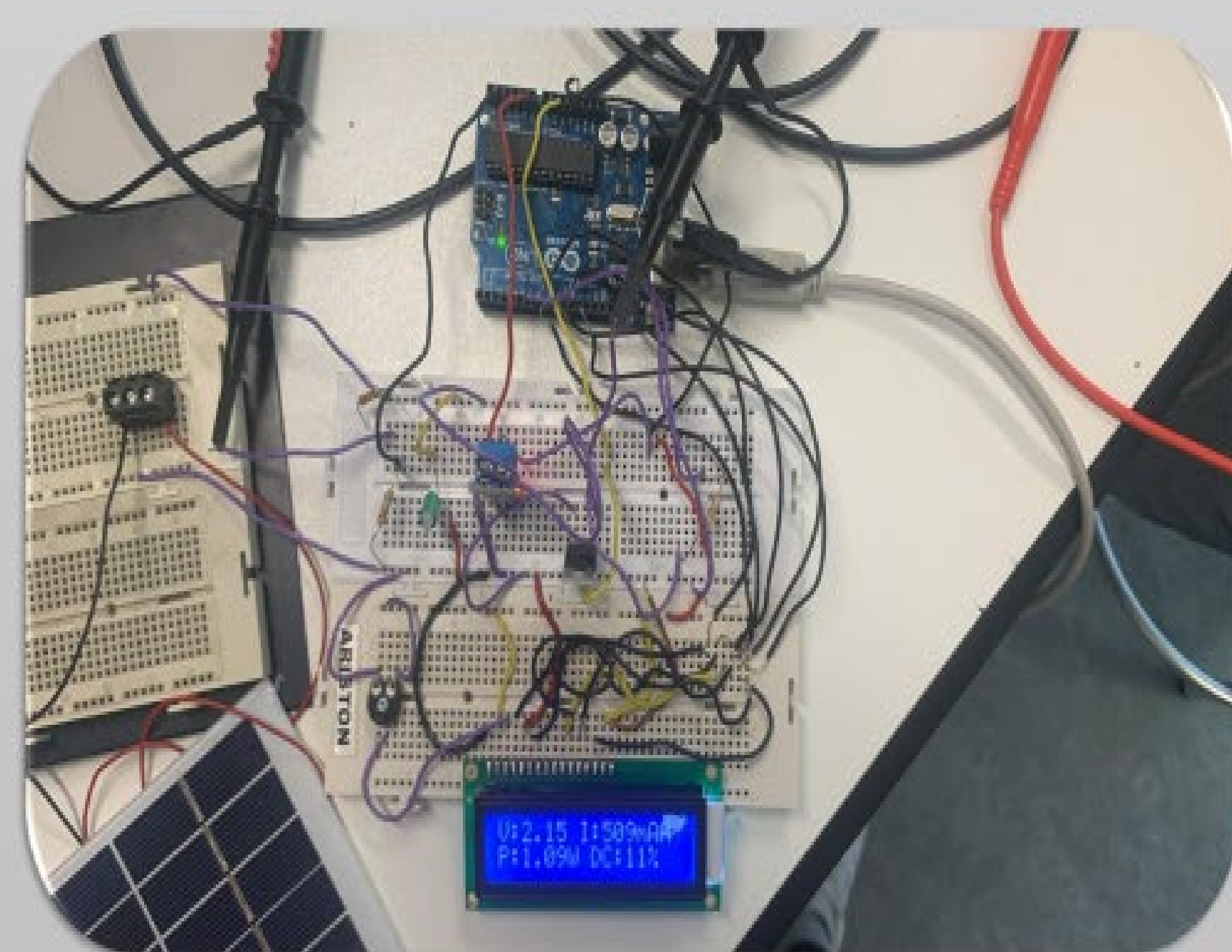


### FLUX DIAGRAM



## RESULTS

Although the 5W cell does not achieve proper operation, we have adapted a voltage source to simulate a higher-power photovoltaic panel. In this way, we verify the correct functioning of the circuit.



## CONCLUSIONES

- Problem with the MOSFET and the photovoltaic panel that hindered the project's progress
- The maximum number of samples limited by Arduino

## REFERENCIAS

- Notes on Renewable Energy
- Arduino Manual