# Diary

## Student Details

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PS Instructor: Prof. P. Srinivasan, Prof. Arun Kumar Jalan

Week: 3rd (1st June-6th June,2020)

Plan for the Week: (what was your plan for this week in terms of learning and project objectives)

1. Giving seminar presentation for mid-semester.
2. Writing mid-semester report.
3. Coming up with the cost estimate for the hardware.
4. Learning how to write sketches.
5. Watching tutorials to gain further knowledge.

## Learning Outcomes of the Week

### About the PS 1 Station

1. Adani Power is India’s largest private sector thermal power generating company with over 10GW power generating capacities.
2. The Udupi plant was bought by Adani Power Limited from Lanco Infratech in Rs. 6300 Crores.
3. It is the first independent power project which uses 100% of imported coal as fuel in the country.

### About the Project Domain

1. Project uses a lot of sensors actuators and modules. A lot of knowledge and skill is required to make this work.
2. Project seeks to aid in the smooth running and management of powerplant and tries to make a safer working conditions during pandemic such as COVID-19.
3. Project is the “Electronics” domain which makes use of Arduinos, sensors, actuators and Cloud service. It also requires a SIM card and GSM/GPRS module.

## Skills Gained (Technical as well as soft skills)

1. To write an intermediate level sketch to operate Arduino based device.
2. Functions and uses of various sensors, actuators and modules.
3. Presenting and making Power-point presentations effectively.

## Major Learning & Project Milestones

1. Writing Sketches in the programming language called ‘WIRING’
2. How to give presentation to experts like seniors and professors.
3. Use of loops like if-else, for, switch etc. in programming languages.

## Major Challenges

1. I had some problems writing the sketches due to lack of guidance and experience.
2. I faced difficulties in testing the programs I wrote due to unavailability of hardware.
3. I faced some network difficulties during the seminar but thankfully it was after my presentation.

## Work Plan for Next Week

Next week starting 8th June. I must seek guidance from him about how to write sketches for complicated systems. We will also have to get the electronic components for the project. We will also try to learn how to simulate the running of our device online. We also have to submit the mid-semester report next week. So, the next week is basically about starting to build the project and writing the proper sketch required in the project.