# Diary

## Student Details

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

Week: 1st (18th May-23rd May,2020)

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

1. General Orientation (Getting to know Professors and Industrial Mentors)
2. Getting to know the Power plants and Power Industry as a whole.
3. Virtual Tour of Power plant.
4. Discussion on project.

## Learning Outcomes of the Week

### About the PS 1 Station

1. Adani power a subsidiary of Adani group is India’s largest private sector thermal power producer. It produces over 12.5 GW of energy. It has also started a 40 MW solar powerplant in Gujrat to promote sustainability.
2. Adani Power has research and training institutes called APTRI all over India to train students about the industry.
3. It has thermal power plants all over India, many of which are operational on Super critical technology. Many new projects based on Ultra Super critical technology are also coming up.

### About the Project Domain

1. Still not much is known about my project, but my industry mentor said he is working on it.
2. As per our conversation, project will be under C&I department of APTRI, Udupi.
3. It will be based on Instrumentation of Powerplants.

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

1. Powerplant Economics.
2. Working principles of Thermal, Solar and Nuclear Powerplants
3. Communication skills (How to behave and communicate in presence of Senior Industrial Experts.)

## Major Learning & Project Milestones

1. I came to know about the history, current scenario and future prospects of Thermal Power.
2. I came to know about the detailed economics of powerplants (like costs per unit and profits).
3. I came to know about the working principles of thermal powerplants and its various components.
4. I also gained a lot of knowledge about solar power and nuclear power and their challenges.

## Major Challenges

1. Since no information was provided about the projects, it was difficult to read and prepare for them in advance.
2. No topics or study material was provided.
3. During a lecture, my doubt got unintentionally ignored and sessions ended just after that.

## Work Plan for Next Week

Next week starting 25th May, there will be a meeting with our industry mentor about our projects. On finalizing the projects, he might tell us what we must read or try to gain theoretical knowledge about the project and the working principles etc. He might give some advice to watch some lectures or arrange some lectures on his own for our benefit. So, the next week is basically about starting the project and gaining some prior knowledge in that field.