**Analog Power Supply Unit**

**Project outline**

**Group 6**

Rectifying and regulating an alternative voltage to a predefined DC voltage to drive a specific load and for a circuit as input voltage. We plan to handle a maximum current of 10A. We also provide a datasheet in accordance with power supply. For the external safety of the power supply we use a cooling system and an enclosure.

**Specification of Analog Power Supply Unit:**

* Maximum Current – 10A
* Input voltage – 12V-25V
* Output voltage – 10V
* Maximum power – 100W

**Group members:**

170150A – D.M.A.I.Divisekara

170168K – W.S.D.Fernando

170170J – G.Gajanan

170173V – P.K.G.Gamage

**Weekly plan:**

week1

week2

week3

week4

week5

week6

week7

week8

concept research and circuit simulation

Preliminary Circuit design

Circuit design finalizing

PCB design and Printing

Soldering and assembly of components

Testing and debugging

Circuit finalizing and Documenting

Enclosure design and Finishing

Datasheet preparation

PROJECT TIMELINE

April

March

**Basic circuit:**

