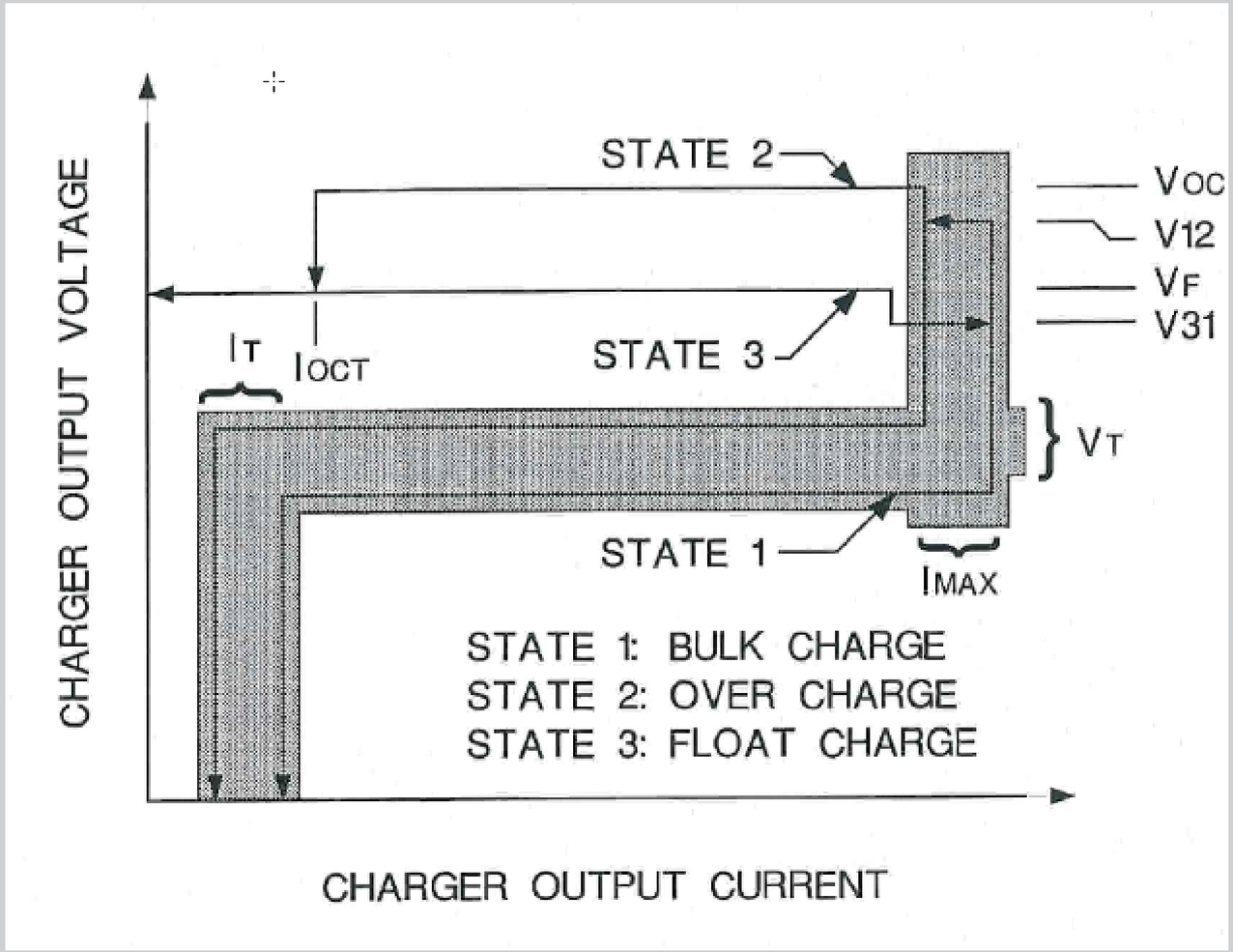
LEAD ACID BATTERY CHARGER

24V 8A

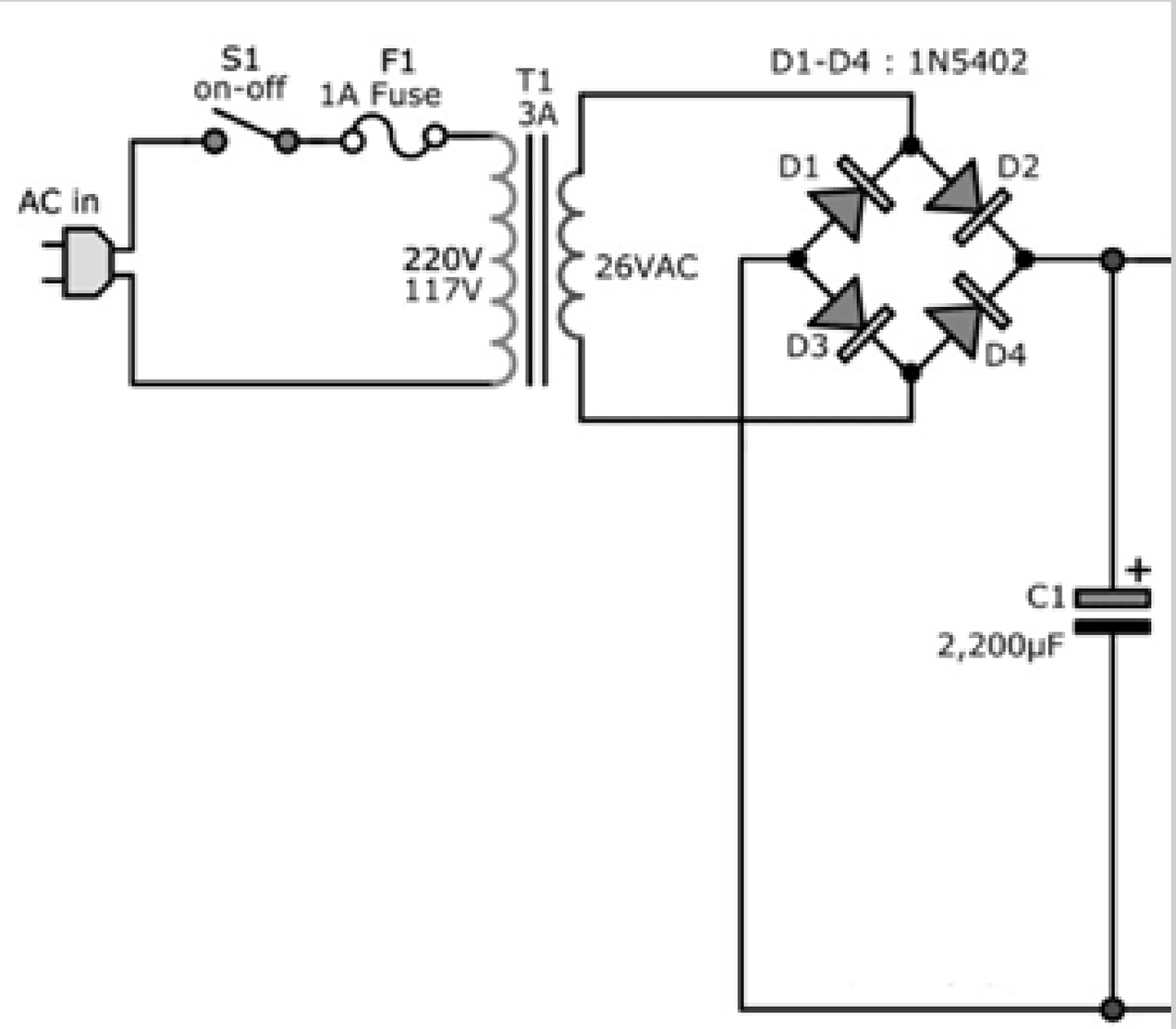
EN2110 Electronics - III Project

Electronic and Telecommunication Engineering
University of Moratuwa



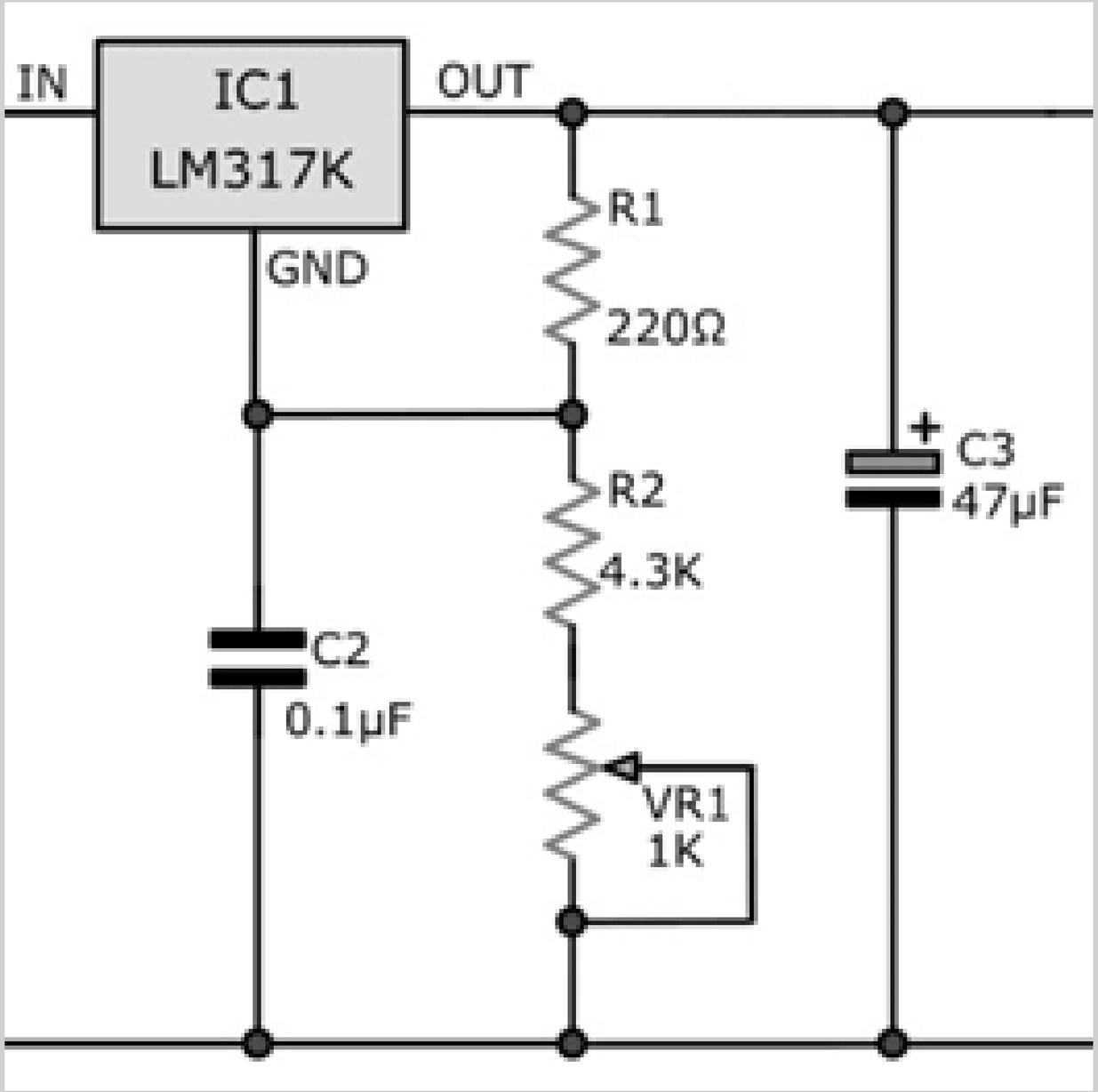
SPECIFICATIONS

- Optimized control for maximum battery capacity and life.
- Internal logic provides three charging states.
- Controls both voltage and current at the output.
- High accuracy achieved in various temperature of the battery.
- Standby supply current can be achieved up to a minimum level



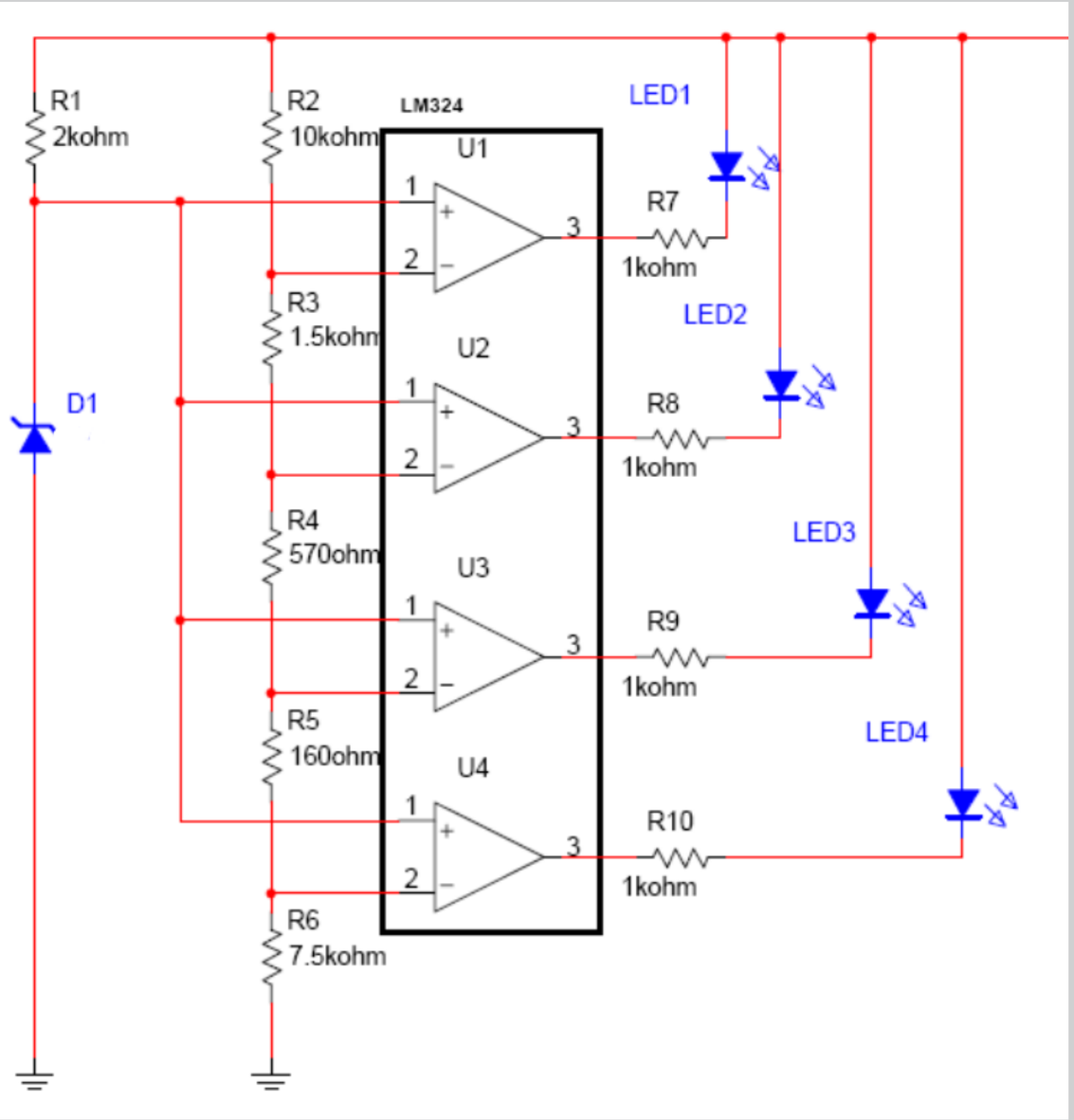
AC TO DC VOLTAGE CONVERTOR

- 230V AC input
- DC output
- Contains transformer bridge rectifier



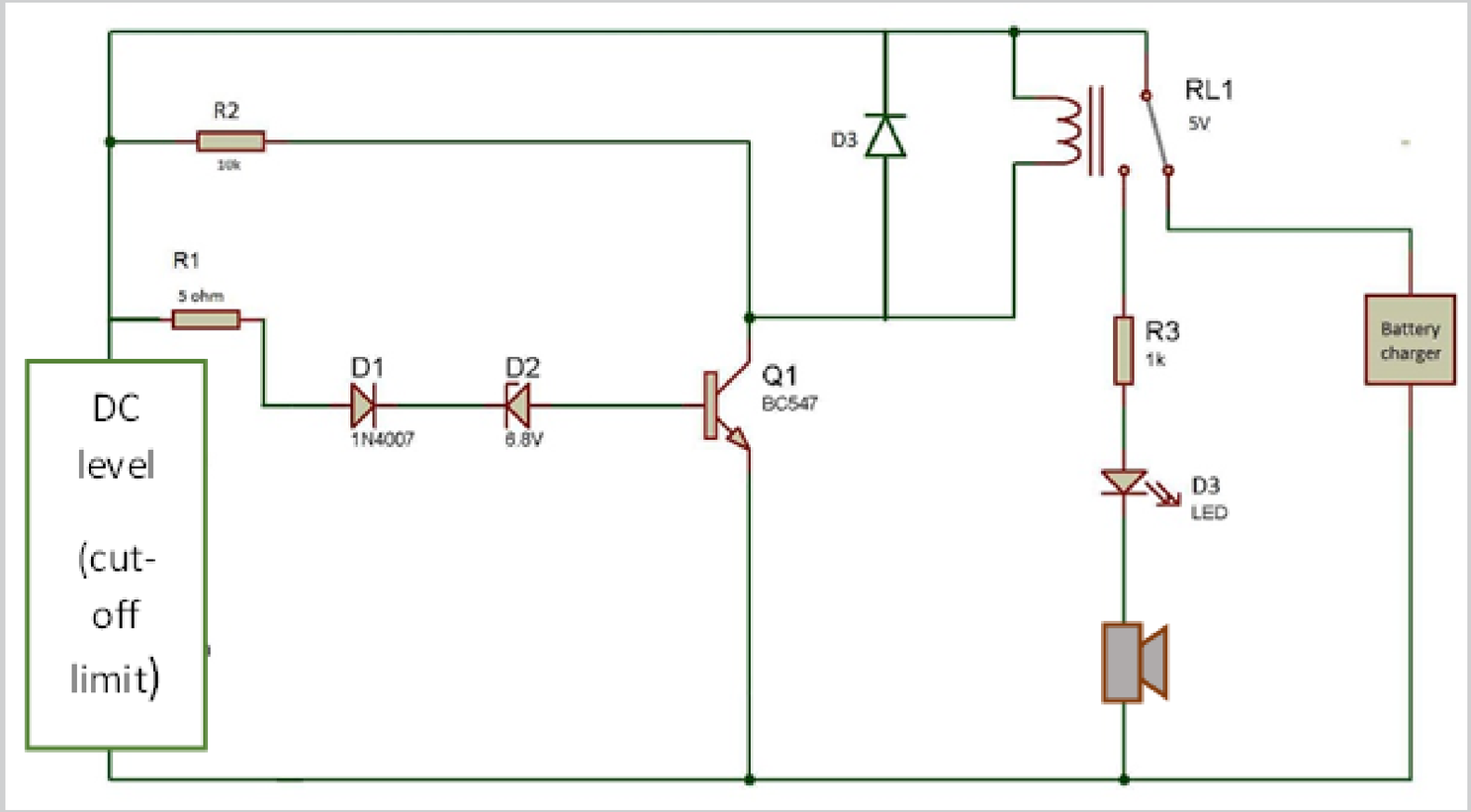
DC VOLTAGE REGULATOR

- Input is from the voltage converter output
- 24V DC regulated output



VOLTAGE LEVEL INDICATOR

- Voltage Level Indicator according to the battery feedback
- 4 - level Indicator



OVERCHARGING INDICATOR

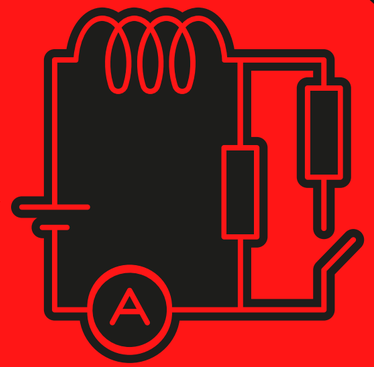
- Detecting cutoff terminal voltage
- Back current protection
- Indication of full charging

TIMELINE

Market Analysis

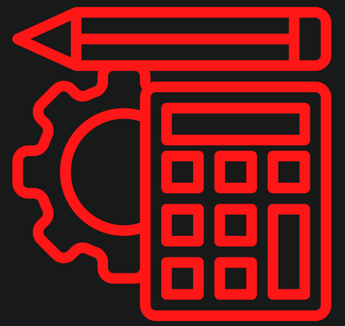
Finished

Basic crcuit design



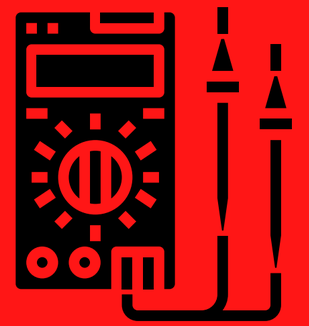
- Block-wise simulation of the entire circuit.
- In-progress
- To be completed by May 15

Calculations for meet the specifications



- Calculate the required values to meet the specified requirements
- May 16 - May 29

Testing and debugging



- The actual implementation of the product with testing and debugging
- May 30 -June 12.

TEAM MEMBERS

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THANK YOU


SUHU
12/24V Fully Intelligent Pulse Repair Charger
MULTIPLE PROTECTION
WINTER AND SUMMER
PLUSE REPAIR
INTELLIGENT DETECTION
MODE SELECTION
Vehicle Mode
AGM/GEL
Motorcycle
Repair Mode