

### Phase 3: Final Report – 2021

Date:

Name 1:

Student Number 1:

**Group:**

{This template is only an example of content expected; you can modify to suit your style of writing but still keeping formatting rules as described in the blue book}

#### 1. Power Supply Design

(Brief introduction of the circuit diagram, clear simulation circuit diagram (avoid black/grey background), justification or reasons for the use of components in the circuit diagram and provide analytical calculations to achieve project specification requirements)

#### 2. Simulation Results

(Brief introduction of the simulations, provide simulation results, clear figures (well sized, avoid black background on figures), evidence of achieved expected results, tables if any)

Bad example of a figure (has black background)

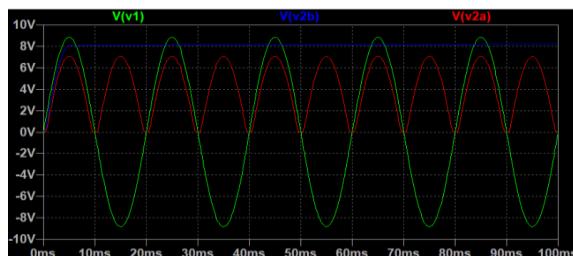


Figure 1: Voltage levels at various points

#### 3. Prototype Power Supply

(Brief introduction of the power supply, clear circuit diagram of the prototype power supply (use any tool of your choice to draw the circuit diagram), clear picture of the prototype (well labelled or clearly labeled components of the power supply),

##### 3.1 Laboratory Results

(Brief introduction of results, , picture or plots of the laboratory experimental results of the prototype (what could be captured), laboratory results that can be compared with the simulation results (use a table to compare simulations vs Laboratory results))

##### 3.2 Power Supply Specifications

(Specifications of the power supply (e.g. input voltage, rated current, rated voltage, switching frequency, rated power, short circuit protection if any, etc), output voltage ripple, this can be presented in a table).

Table 1:...


## 4. Discussion

*(Discuss how the simulation results compared with expectations, discussion on how experimental results compare with the simulation results, does the prototype power supply meet the expected outcome, what are the trade-offs? Critique your own design and results, what can be improved?)*

## 5. Conclusions

*(Short summary of the prototype power supply design)*

References [should start on a new page]  
*(if any)*

Appendix A... [Should start on a new page]

*(Additional supporting material can be added in the appendix A)*

A1. Design requirements

*(Provide details of what were the required design specifications, what you are given to produce, what is needed to achieve the desired outcome and what is your anticipated plan to achieve the design requirements)*

A2. ...

Appendix B [Should start on a new page]

[Provide group contribution, e.g. how the work was divided]

**[This report should be limited to four pages (excluding references and Appendixes), font 11 can be used, singled spacing, make sure figures and tables are clearly labeled, only provide necessary details and information in the report, extra or supporting info can go into the appendix]**