

Elec Eng 2E15

Lab 2: Diode circuits

Deliverables and Evaluation

1. Summary

For this lab:

- All tasks are required
- You get most of the marks for doing Tasks 1-3
- You get full marks if, in addition, you complete Task 4

2. Deliverables

Submit a summary report with the following information:

- For each of tasks 1-3:
 - A picture of your physical circuit with your name, student number, and date written and captured in the picture
 - The measurement results described in the lab instructions, including screenshots
 - A brief discussion of the theoretically expected behavior, any differences with measurement, and the reason for the differences
- For task 4:
 - Your schematic for each circuit from the simulation tool used
 - The kind and parameters of the analysis you ran (e.g. transient analysis, initial time 0, final time 2ms)
 - The results, including plots of any waveforms simulated
 - A brief discussion of any discrepancy between simulation, theory, and measurement

Not including the cover page and pictures, the entire report should be 1-2 pages.

3. Evaluation

Evaluation is based on the completeness for each task. The entire evaluation is based on your report. We cannot evaluate you on work not described in the report. The marking scheme for each task is as follows:

- If all the deliverables as described above are clearly given in the report, 100%
- If most of the measurements were done but the report lacks some of the deliverables required above, 80%
- If the circuit was built and some measurements (or, for task 4, simulations) done, 50%
- Less than the previous step, 0%

The weight of each task is 20% of the overall report.

20% is for presentation. This includes a clear structure to the report (section headings, complete sentences, etc.), professional presentation (font clarity, spacing, etc.), and readability (spelling, grammar, clarity of communication, etc.)