

MEDICAL EQUIPMENT CLASS PROJECT (YEAR 2004-2005)

DESIGN OF A MEDICAL DEVICE

You are required to complete a class project on the design of a medical device of your choice. The expected outcome of this project is a comprehensive report including all aspects of the project described below. The goal of this project is to let you be more focused, oriented, and familiar with a particular class of medical equipment. Along with the general information you gain through the class, you should be more prepared to compete in the job market after you graduate. This project counts as 15 points in your grade.

Components of the Report

1. Theory of operation. (20%)
2. Functional block diagram. (20%)
3. Example implementation of blocks (e.g., circuit diagrams from a commercial product). (30%)
4. Summary of operation. (10%)
5. A survey of similar devices and their comparison. (10%)
6. Your comments and suggestions. (10%)

Requirements

1. Length of the report should be calculated as 7 pages x the number of students in the group. The minimum length of any project should be 15 pages. This means that a group with 3 students is expected to have a report of 21 pages in length, while a group with a single student has to complete 15 pages. The page counting does not include copies of circuits or any material from commercial products that have to be included.
2. You are NOT required to type the report. Handwriting is just as good as using a color printer.
3. Your project topic must be approved by Eng. Inas Yassine before you start.
4. Your project deadline is March 1, 2003.

Best of Luck