



Faculty of Applied Sciences

FSAB1230 Project in biomedical engineering

[+60h exercises] 6 credits

This course is not taught in 2005-2006

Language: French

Level: First cycle

Aims

The objectives of this project are to initiate engineering students to the application of their theoretical knowledge in biomedical engineering. The project will involve a collaboration between theoretical and experimental approaches (faculty of medicine and faculty of engineering).

Main themes

This project aims at integrating at least two disciplines of biomedical engineering. For instance, the following projects could be proposed to the students:

- conception of a physiological implant
- measure of physiological signals and extraction of physiological noise (EEG, ECG).
- analysis of the neural control of movement (gait, eye movements) based on the measure of parameters and mathematical modelling of the system.

Content and teaching methods

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Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

prerequisite : FSAB 1225 Introduction au génie biomédical.