

Introduction to Medical Equipment

Task 01

ECG Data Acquisition and Heart Rate

(February 20,2025)

Statement: You are required to acquire ECG data using an ECG sensor or by simulating the ECG circuit (hardware circuit), calculate the heart rate, determine if the rhythm is regular or irregular, explain the reasoning behind the rhythm analysis, and calculate the error. The ECG signal should be drawn and analyzed.

Deadline: Thursday, 27th of February, 2025

Policy: Group Task (4 or 5 members)

Submission: In Class Submission

Evaluation Criteria:

Item	Grade
Full Functionality	50%
Questions	50%