

Task 02

Infant Incubator

(15th of October, 2024)

Statement: You are required to design a model of an infant incubator which provides a display for **temperature, humidity, and heart rate**. The system should trigger an alarm when the temperature drops below the desired level and apply a procedure to reset the temperature to the desired one. A **color sensor** should be installed inside the incubator to help detect symptoms of jaundice.

Bonus

- Mobile application that notifies the user with abnormal conditions
- Add an additional sensor to monitor another important parameter (e.g., oxygen level, CO₂ concentration, or sound level) within the incubator environment.

Deadline: Thursday, 24th of October, 2024

Policy: Group Task (4 or 5 members per team)

Submission: In Class Submission

Evaluation Criteria:

Item	Grade %
Full functionality of the HW	60%
Design	20%
Questions	10%
Attendance	10%