

Project Title

Health Band

By,
Shahbaz Khan (1608231057)



Under the Guidance of

Dr Kshitij Shinghal
(Head of the Department)



Dr Amit Saxena
(Associate Professor)

Department Of Electronics & Communication Engg.
Moradabad Institute Of Technology
Ram Ganga Vihar , Phase -II, Moradabad-244001 (U.P.)
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Health Band

Problem Statement:-The proposed health band developed for monitoring of the patients send to quarantine, or under medical treatment. The novel COVID-19 is created time of pandemic of as, large crowd of people send for either isolation or quarantine centre, Their health monitoring is a challenge for today's medical team as well as patients under observation. This health band is developed, to provide quality monitoring without spreading the virus among the patients and medical staff.

Designed Solution:- The proposed health band is designed by using electronic system the selected majority of components are a microcontroller, temperature sensor, blood oxygen sensor, heart beat rate sensor, display, Wi-Fi module, and a battery. All these components are integrated together and the Electronic system is made which is named as health band.



Fig(1). Health band showing **real time body temperature** of the patient.

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The health band can be given to the patient at the time when he gets admitted into isolation or a Quarantine Centre. All the sensors used in the band will sense the three body parameters (temperature, heart beat and blood oxygen level) from time to time and the data will be monitored. This monitored value that is uploaded to the server with the help of the Wi-Fi module and microcontroller.



Fig (2) Health band showing **real time Heartbeat** of the patient.



Fig(3). Health band showing **reminder to wash hands**.

After all the information about the patient can be upload and recorded in the server, this way the data of every patient are maintained. We can Health Band for Medical Observation. provide a separate band to every patient so that mass information can be collected over the server for every patient. The data of every patient can be monitored and extended to isolation central control room, Based on the data the district health monitoring center, as well as the Ministry of Health can support to hospital, patients as urgent need. The data can be seen live.