

# K. D. K. COLLEGE OF ENGINEERING, NAGPUR DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING TITLE OF PROJECT: "Development of Wireless Assistant System for Monitoring in Healthcare Industry"



NAME OF STUDENTS: 1) ANUSHRI KATEKHAYE, 2) PAYAL BISANE, 3) HIMANSHU DHONE NAME OF GUIDE: Prof. S. A. BAGAL

**SESSION: 2024-2025** 

ABSTRACT: The development of a wireless assistant system for the monitoring in healthcare industry is revolutionizing patient care, emphasizing accessibility, efficiency, and proactive health management. This system integrates wireless sensors, wearable devices, and technology to provide real-time monitoring of vital signs such as heart rate, blood pressure, and oxygen levels. Data from patients are transmitted to healthcare professionals via a secure network, enabling remote monitoring and timely intervention in emergencies. The system leverages artificial intelligence and data analytics to detect anomalies and predict potential health risks. Automated alerts are sent to both healthcare providers and patients, allowing for faster responses and personalized treatment plans. This not only enhances patient outcomes but also optimizes the workflow for healthcare professionals, reducing the need for frequent hospital visits. By providing continuous monitoring and predictive insights, wireless assistant systems contribute to preventive healthcare, lowering healthcare costs, and improving the quality of life for patients with chronic conditions.

KEYWORDS: Real Time Monitoring, Wireless Technology, Sensors.

**INTRODUCTION:** In recent years, the healthcare industry has witnessed a significant transformation driven by advancements in technology. Among these innovations, Development of Wireless Assistant System for Monitoring in Healthcare Industry has emerged as a promising solution for enhancing patient monitoring and care. These systems leverage wireless communication technologies to facilitate real-time health data collection, analysis, and transmission, thereby enabling healthcare providers to deliver timely and effective care. The need for Assistant monitoring systems has become increasingly critical due to the growing population of aging individuals and the rise of chronic diseases. Traditional healthcare monitoring methods often involve manual processes that are timeconsuming and prone to human error. Wireless assistant systems address these challenges by automating data collection and providing continuous monitoring capabilities, allowing healthcare professionals to make informed decisions swiftly.

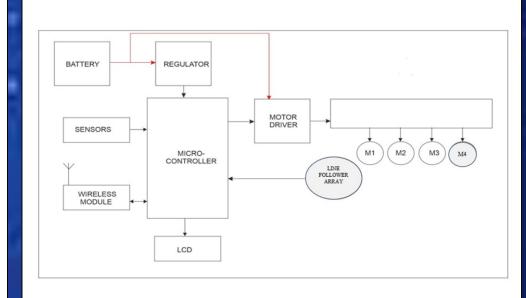
#### AIM:

Development of Wireless Assistant System for Monitoring in Healthcare Industry.

## **OBJECTIVES:**

- To study the difference types of existing wireless assistance system.
- To develop the wireless Assistance system that will able to reach to patient to provide them drugs and monitoring on them in a healthcare industry.
- To verify and validate the system performance of wireless Assistant system.

# **BLOCK DIAGRAM:**



#### **PROJECT SETUP:**





#### \$100, \$200, \$100, \$400 \$100, \$400, \$400, \$400 \$100, \$400, \$400, \$400 \$100, \$400, \$400, \$400 \$100, \$400, \$400,

### **CONCLUSION:**

After a brief study of the existing assistant systems used in the healthcare sector, the limitations of these systems are identified. The gaps identified which are speed limitations, load carrying, error in data handling etc. Therefore, it became clear that there is a significant need for an advanced and tailored solution like a Wireless Assistant System (WAS) to improve the efficiency of the wireless Assistant System and make it effective. The monitoring proposed capabilities WAS within is healthcare designed settings.

### **REFERENCE:**

Hazilah Mad Kaid, Mohd Azri Mohd Izhar, Rudzidatul Akmam Dziyauddin, Nur Ezzati Shaiful, And Robiah Ahmad, "A Comprehensive Review on Wireless Healthcare Monitoring: System Components" publication 16 February 2024 in IEEE, VOLUME 12,

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Name & Signs of Students Name and Sign of Guide

Anushri Katekhaye (02)

Payal Bisane (09)

Himanshu Dhone (60)

Prof. S. A. Bagal