

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A

PROJECT

ABSTRACT

ON

EMBEDDED WEB SERVER ALONG WITH A

PREDICTIVE MAINTENANCE SYSTEM

Submitted by:

1. Rishiraj Kumar – Reg No: 225807062
2. Swaminath B – Reg No : 225807064
3. Sumedh Prabhudesai – Reg No : 225807036
4. Anirudh Nishtala – Reg No : 225807128

PROJECT ABSTRACT:

The integration of embedded web servers with predictive maintenance systems represents a significant advancement in the field of industrial automation and smart manufacturing. This project aims to develop a robust and efficient solution that combines real-time monitoring, data analysis, and predictive maintenance capabilities within an embedded system framework. The core of the system is an embedded web server, which facilitates remote access and control of industrial equipment via a standard web browser. This server collects and transmits data from various sensors and components to a centralized database. The predictive maintenance system analyzes the collected data to identify patterns and predict potential equipment failures before they occur. This project highlights the potential of integrating embedded systems with predictive analytics, offering a scalable approach to modernizing industrial maintenance practices.