

## **Abstract**

The role of health monitoring structures of public facilities become very important to ensure security for its users. A bridge is one of the public facilities that has very large role in various fields, such as economic, social, and so on. A bridge serves as a link connecting two roads previously not possible to connect because of hinderence by rivers, valleys, lakes, and so forth.

A large number of the existing bridge that still lack the real-time structural health monitoring system becomes an urgent problem to be solved. Therefore, in this final project system prototype and design was made and going to be used as media to monitor bridge condition.

**Keywords:** wsn, monitoring, bridge.