**ELECTRONICS AND COMMUNICATION ENGINEERING**

COURSE CODE : ECC1361

COURSE NAME : INDUSTRIAL ELECTRONICS AND APPLICATIONS

TITLE :

**INDUSTRIAL POWER LINE FAULT DETECTING SYSTEM**

**ABSTRACT**

The Industrial Line Fault Detecting System is designed to monitor and identify faults in power transmission and distribution lines to ensure uninterrupted and safe operation of industrial processes. Electrical faults such as short circuits, line breaks, or ground faults often lead to equipment damage, production downtime, and safety hazards. This system utilizes sensors and microcontroller-based technology to detect abnormal conditions in the power line, analyze the fault location, and generate real-time alerts. By providing immediate detection and indication, it reduces maintenance time, enhances operational reliability, and prevents major failures. The proposed system offers a cost-effective and efficient solution for modern industries, ensuring continuous power supply and improved safety standards.

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