**Engineering College**



**ACE**

**(An AUTONOMOUS Institution)**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (INTERNET OF THINGS)

**III B. Tech-II Semester CSE(IoT)**

**Project Abstract**

**Submitted**

**for**

**Mini Project**

**Title of The Project**

**“Smart Cradle System”**

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**ABSTRACT**

**With the rapid advancement of smart technology, the Internet of Things (IoT) has revolutionized various domains, including infant care. The IoT-based Smart Cradle System is an intelligent, automated solution designed to enhance the comfort, safety, and well-being of infants while reducing the stress and workload of caregivers. This system integrates multiple sensors to monitor key environmental factors such as temperature, humidity, and sound levels, ensuring an optimal sleeping environment for the baby. It also features a cry detection mechanism that automatically activates a gentle rocking motion and plays soothing lullabies when the baby cries, helping to calm the infant without requiring immediate parental intervention. Additionally, a real-time monitoring system allows parents or guardians to remotely track the baby’s condition via a dedicated mobile application. The app provides instant alerts in case of unusual activity, such as excessive crying, abnormal temperature fluctuations, or prolonged inactivity, ensuring quick parental response. The system may also include video surveillance, enhancing security and allowing caregivers to monitor the baby from anywhere.**

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