

# ***SMART LIGHTING WITH PIR AND LDR SENSOR FOR ENERGY SAVING HOME***

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## ***ABSTRACT***

*Internet of Things (IoT) is a device that is installed using sensors, software and other technologies with the aim of being able to connect and exchange data between devices and other systems that use the internet. One of the devices that can do IoT innovations that can facilitate daily human activities is a lamp. In everyday life the lights can only be controlled by pressing the button on the switch, but in practice the switch is only limited to a certain space and area. Smart Lighting using PIR and LDR sensors has been successfully implemented and is in accordance with the expected goals. Based on the test results show that the performance of the lamp can be controlled properly using the Telegram Bot as expected.*

*Keywords: Internet Of Things, NodeMCU, Energy Saving House, Automation and Light Control, LDR sensor and PIR sensor.*