

HOME AUTOMATION

*A project report submitted in partial fulfillment of the requirements for
the award of the Degree of*

BACHELOR OF TECHNOLOGY

**In
COMPUTER SCIENCE AND ENGINEERING**

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AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi & Permanently affiliated to JNTU Kakinada)

(Accredited by NAAC, UGC & NBA, AICTE)

**MAKAVARAPALEM, NARSIPATNAM,
VISAKHAPATNAM DIST**

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CERTIFICATE

This is to certify that the project entitled "HOME AUTOMATION" in partial fulfillment for the degree of Bachelor of Technology in COMPUTER SCIENCE AND ENGINEERING at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, MAKAVARAPALEM, VISAKHAPATNAM is an bonafied work carried out by BRAMYA (14811A0511), P.SAI RAM CHARAN (14811A0553), G.SWAPNIKA (14811A0523), M.SRIVALLI (14811A0543), G.SIVA PRASAD (14811A0522) under the guidance and supervision during 2017-2018.

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ABSTRACT

Internet of things is a concept that imagines all objects around us as a part of the internet. It covers a very wide range of objects and it is the network of physical devices like smartphones, vehicles, home appliances, sensors. Home Automation using internet of things is a system which changes the life style of everyone by automating the appliances. The main objective of this project is to control basic home functions and features automatically through internet from anywhere around the world by providing security to home appliances. So that it saves time, money, power. The automation system is made by using the tools like Arduino, sensors, and smartphones. When the devices like smart phones, tablets, sensors are connected to each other, they enable more and more smart services and the operation is faster and efficient.

There is a great energy crisis in current situation of our country. Moreover, people have become negligent in proper utilization of the available energy. People often forget to turn off the light sources and other home appliance while staying out from home. Even in those situations, applications of home automation make it possible to control them from a distant place in easy way with our smartphone.

Home automation is a modern technology that modifies your home to perform different sets of tasks automatically. Today, automation technology is gaining more recognition among people not just for home modification but in industrial and business sectors too. Home automation technology is constantly improving its flexibility by incorporating modernized features to satisfy the increasing demands of people. When it comes to home automation, there are a few steps that must be followed in order to implement the home automation technology effectively. First, the automation needs should be planned. Home automation technology is growing drastically and its demand is increasing in a wide range of sectors