

GSM based Electrical Control System for Smart Home Application

**Prof. A. V. Raipure¹, Shreyas Kamble², Prashant Bandal³, Vinayak Raut⁴,
Sahil Nadaf⁵, Farhan Sayyed⁶**

Guide, Department of Electronics and Telecommunication¹

Students, Department of Electronics and Telecommunication^{2,3,4,5}

Head, Department of Electronics and Telecommunication⁶

Pimpri Chinchwad Polytechnic, Pune, Maharashtra, India

Abstract: Home automation systems make the revolutionary changed in the human's comfortability and also make the life easier. In this system person can control all the appliances through the smartphones. There are many technologies through they can control home appliances according to their specific range. Such technologies are ZigBee, Wi-Fi, Bluetooth, En-Ocean and GSM. By Choosing any of technology appliances can be control. This system can save time and unwanted consumption of electricity. The system is based on the embedded system and can acts as a security guard of the home. In this system it can control the temperature, humidity, gas density, water immersion of the house. The purpose of this research paper is to controlled all the home appliances through smart phone.

Keywords: GSM Based, Home Automation, Arduino, Automatic switching.

REFERENCES

- [1]. Chattoraj, S. (2015). Smart Home Automation based on Different Sensors and Arduino as the Master Controller. International Journal of Scientific and Research Publications, 5(10), pp. 1-4. Retrieved from <http://www.ijserp.org>
- [2]. "Smart GSM based Home Automation System" Teymourzadeh, R.; Ahmed, S.A.; Kok WaiChan; MokVeeHoon Systems, Process & Control (ICSPC), 2013 IEEE Conference on Year: 2013
- [3]. Ajah, G, David, N, Abioye, A, Home automation using Arduino, Sch. J. Eng. Tech, 1(3):112-116,2013.
- [4]. David, N., Chima, A., Ugochukwu, A., & Obinna, E. (2015). Design of a Home Automation System Using Arduino. International Journal of Scientific & Engineering Research, 6(6), pp. 795-801. Retrieved from <http://www.ijser.org>
- [5]. Khan, M. N., & Hasan, M. R. (2017). Designing a Home Automation System by Using RF Receivers. International Journal of Advance Research and Innovative Ideas in Education, 3(4), pp. 2318-2323. Retrieved from <http://www.ijariie.com>