

Department of Computer Science and Engineering

***Project Proposal***

Course Code: CSE 442

Course Title: Microprocessor and Microcontroller

Section: 02

Semester: Spring’17

Group No : 08

Group Name and ID’s:

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*Submitted To*

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Associate Professor, Dept. of CSE

Submission Date: 23 January, 2017

Project Name:

IR (Infrared) Remote Control with Microcontroller for Home Appliances.

Description:

In this project, we are using IR based wireless communication for controlling home appliances. In this project, Arduino is used for controlling whole the process. We send some commands to the controlling system by using IR TV/DVD/MP3 remote for controlling AC home appliances. After receiving signal from IR remote, Arduino sends related signal to relays which are responsible for switching ON or OFF of the home appliances through a relay driver.

Components:

1. *Arduino UNO*
2. *TSOP1738*
3. *IR TV/DVD Remote*
4. *ULN2003*
5. *Relays 5 volt*
6. *Bulb with holder*
7. *Connecting wires*
8. *Bread board*
9. *16x2 LCD*
10. *Power supply*
11. *PVT*
12. *IC 7805*

*Benefits:*

By using this project we can control our A/C, Television, Light, Fan etc only press a single button.