

ABSTRACT FOR ITSP

➤ **Team Name-** Red Devils

➤ **Project Title-**GestureTalk

➤ **Implementation Steps**

Brief Idea- A glove based system that converts gestures into letters which will be displayed on an external screen (laptop).

Rough Timeline

Week 1 - Research and development of glove design.

Week 2 - Arduino Circuit Completion

Week 3 - Gesture Input and Transfer of data to laptop + XBee

Week 4 - XBee + Conversion of data to letters/words. (Processing)

Week 5 - Troubleshooting and if time permits, conversion to speech/voice.

➤ **Components Required:**

Arduino Chip (2), XBee(2) , Glove Design , Touch Switches , USB Cord , FTDI Chip.

➤ **Approximate Budget-** ₹5000

➤ **Learning Expectations-** Arduino Coding, Use of radio modules, Text to Speech Conversion.

