

KJSIEIT

(INFORMATION TECHNOLOGY DEPARTMENT)

- Project Title** : SMART BAND
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- Project Description** : Smart Band, an IOT based Healthcare band which monitors user's activity and provide results accordingly. The band will be connected to phone with wireless technology called Bluetooth and with the help of this technology band will be able to send and receive data to and from phone and which in turn will connected to server. Smart Band also has an Android Application which will show all the stats of activity performed by the user like Steps, Distance, Calories, Heart rate, User Tracking, etc.
With the help of Gyroscope sensor, Band will be able to understand the gestures and actual motion of an individual by Behavior Analysis and those gestures will be useful to perform any action. This band has an functionality to sense users temperature through which various Home appliances like Fan, Air Conditioner will be operated like if the users temperature is high then Air Conditioner will be turned on and visa-versa. Thus this will help users to overcome their health issues and also automate his daily life.
- Software Required** : Android Programming, Java, Python, C
- Hardware Required** : Arduino, Motors, Heart Rate Sensor, Gyroscope Sensor, LED Display, Motion Tracking Sensor, Bluetooth Chip
- Estimated Cost** : 2000/-