ABSTRACT

A tracking or finding someone's position in the forest is an activity that is rather difficult for humans to do. Especially in the uphill lane with very high trees, so that human visibility will be very limited. Based on these problems, a human tracking system in the forest was created. This system accepts the lattitude and longitude values that are sent by the GPS module on the user's device with communication media, that is, the radio signal uses the APC 220 module. With the coordinate point value, the system can monitor the user location in the application program in real time. By using the theory of calculating the distance of two coordinate points, this system can provide notifications when the user is off track. Based on the results of testing, the application program can carry out monitoring in the form of displaying user movements in real time by delay sending data for 1 second, displaying the direction of the wind, and displaying notifications when the user's coordinate points outside the range of coordinates on the right track.

Key word : tracking, GPS, APC 220, monitoring.