



SNS COLLEGE OF TECHNOLOGY

(AN AUTONOMOUS INSTITUTION)

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Recognized by UGC Saravanampatti (post), Coimbatore-641035.



Department of Biomedical Engineering

Course Name: 19BM0302 & WEARABLE TECHNOLOGIES

Topic : Wearable Devices with Global Positioning System
Semester :6

19BM0302/Wearable Devices with GPS /Mr.S.Prince Samuel /AP/BME



INTRODUCTION TO GPS

GPS, which stands for Global Positioning System, is the only system today able to show you your exact position on the Earth anytime, in any weather, anywhere.

The three parts of GPS are:

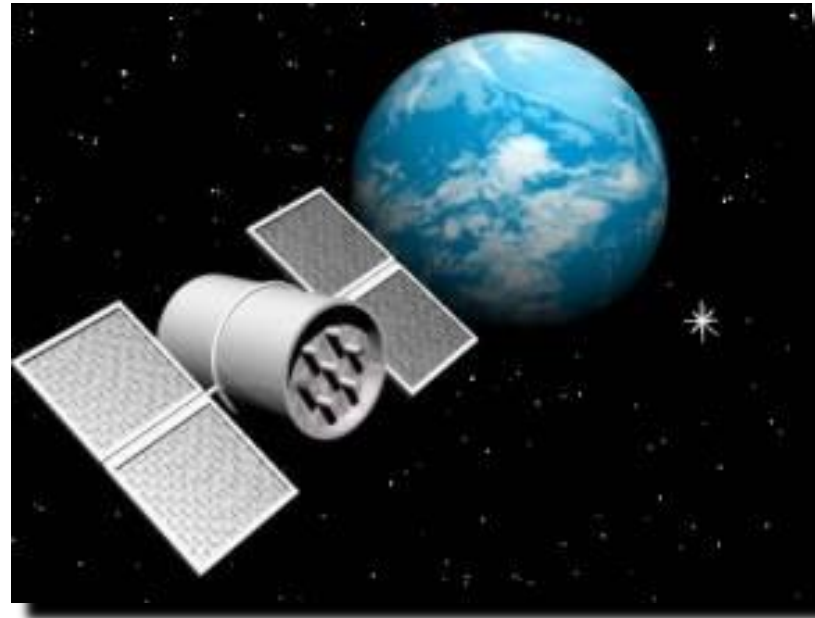
- Satellites
- Receivers
- Software





SATELLITE

- There are quite a number of satellites out there in space. They are used for a wide range of purposes: satellite TV, cellular phones, military purposes and etc. Satellites can also be used by GPS receivers.

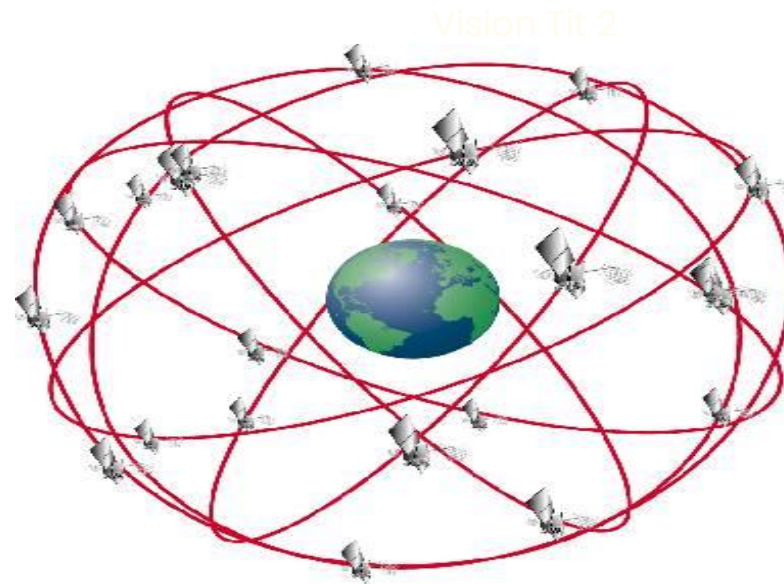


Vision Title 3



OPERATION OF GPS

- The GPS Operational Constellation consists of 24 satellites that orbit the Earth in very precise orbits twice a day. GPS satellites emit continuous navigation signals.

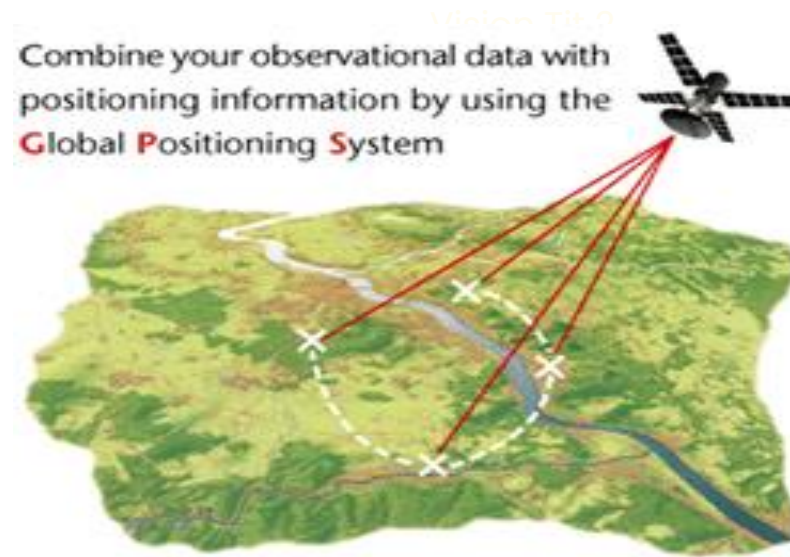




GPS COMMUNICATION



GPS units are made to communicate with GPS satellites (which have a much better view of the Earth) to find out exactly where they are on the global scale of things.

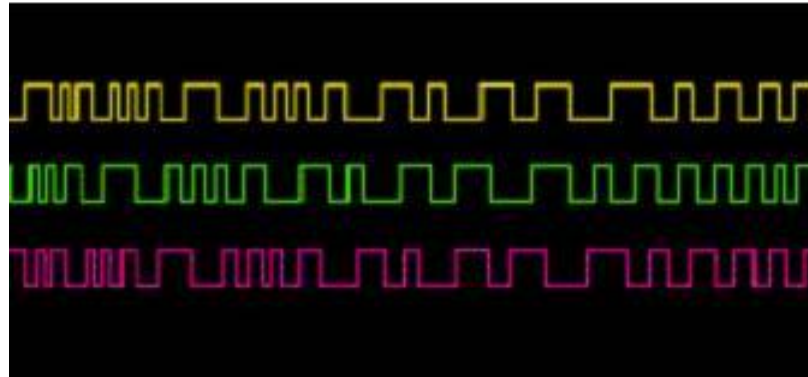


Vision Title 3



IMPORTANCE OF WEARABLE TECHNOLOGY THROUGH GPS

Each GPS satellite transmits data that indicates its location and the current time. All GPS satellites synchronize operations so that these repeating signals are transmitted at the same instant.



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Physically the signal is just a complicated digital code, or in other words, a complicated sequence of “on” and “off” pulses.



HUMAN BODY TRACKER



19BM0302/Wearable Devices with GPS Mr.S.Prince Samuel /AP/BME

A top-down view of a white card with 'Thank you' written in purple glitter calligraphy. The card is on a white marble surface. To the left is a bouquet of purple flowers. To the right is a gift wrapped in white polka-dot paper with a red and white striped ribbon. A black pen with a white polka-dot grip lies next to the card. A spool of red and white striped twine is in the top right corner.

Thank
you