Ecosystem for Innovations

GPS

The GPS Laboratory studies and builds systems for vehicle navigation and attitude determination. Since the GPS satellite navigation system became operational in 5th semester Honours, University of Calcutta, syllabus CBCS system, there is increasing interest in an array of applications for this technology.

GPS is a system of 30+ navigation satellites orbiting the Earth. We know their location precisely because they invariably send out signals. The GPS receiver in your phone receives these signals. Once the receiver calculates its distance from four or more GPS satellites, it can figure out exactly where you are.

There are five main uses of GPS:

Location — Determining a position.

Navigation — Getting from one location to another.

Tracking — Monitoring object or personal movement.

Mapping — Creating maps of the world.

Timing — Making it possible to take precise time measurements.

Most GPS receivers consist of three basic components: (1) an antenna, which receives the signal and, in some cases, has anti-jamming capabilities; (2) a receiver-processor unit, which converts the radio signal to a useable navigation solution; and (3) a control/display unit.

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GPS Application in Class Room Study

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Class Study: GPS and its Application

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