| Reet Shanna | |
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| · 106030 | PAGE NO : |
| F2. EXPERIMENT NO-04. | DATE: / / |
| VARIOUS APPLICATIONS ON GIS & | G GPS IN CIVIL ENGINEERING. |
| | |
| GIS: a Geographical information Suc | Yenn (G75) is a surem designed to |
| GIS: a Geographical information Sys | whise manage and present all |
| stypes of geographical data. | |
| | |
| Applications of GIS: | |
| → Mimeral Mapping | > Remot sensing |
| > Urban development | → Landius site section |
| -> Risk Management | > pollution Munitaring |
| -> Resource Management | - Natural Hazard Assessment. |
| → Isomsportation | → Watershed Analysis |
| | |
| Waterstud Analysis: | A STATE OF THE PARTY OF THE PAR |
| It is a term used to describe the process of implementing land use practice | |
| and water management practices to protect and improve the quality of | |
| water and other matural resources within a watershed by managing | |
| the use of those land and water resources in comprehensive manner. | |
| *Gis: map water resources and link them to database. | |
| * Data: land use & land cover, geology, soil, hydrography and topography | |
| * Stanners/ Engineers link their modelling system to the attribute data. | |
| e de la companya de l | |
| Jransportation: | |
| i) Plumnishg: - involves surveys, review of | |
| = 915: Integralis, manage, analyxe & visualise wide sange 8) sets | |
| Di) Design: +4is: data management tools to manage and show data sho disector | |
| > 7ii) Maintenana: détailed understanding of the Walton of assets for transport | |
| infrastructure. | |
| in Faforemation: -> up to date information system for travellers. | |
| 1 01 1 1 1 1 | by the state of th |

solutions.

GPS: Global Positroning system is a metwork of orbiting satellites that sends precise details of their position in space back to earth pplications of GPS in avil Engineering: Land seismic surveying > Navigation Environmental Monitoring Military. (Deployment of Equipment / machines Surveying Rand seisnec: Many companies in India and abroad uses GPS to locate different paints prints prints of reacts, builder where pricision is essential. This system gives us the accreate geographic position required for land surveying.

For eg: chil engineers have to carry out subsurface geology first to identify perfect spot to drill. Also, marine suisnic surveying can be applied. civil engineers as they seek to study composition of Rocks Deployment of Equipment / Machines. civil engineeris usually incorporates large projects that ruly on The supervisionous use GPS to brack the location of these machines. Olso, they can deploy the equipment to different vites with the help of GPS.