



Centurion
UNIVERSITY

*Shaping Lives...
Empowering Communities...*

Role of Information Technology In Environment and Human Health

Today is an information age and tremendous flow of information is emerging in all fields throughout the world. Information in this competitive era is more precious than life and without information one cannot live at all. India is endowed with rich natural resources while facing the problems of poverty, illiteracy, population growth, environmental degradation etc. It is creating new possibilities to tackle these problems.



Centurion
UNIVERSITY

*Shaping Lives...
Empowering Communities...*

Applications of IT in global environment

One of the important fields of IT for environmental studies is Geometrics. Geometrics is a science and technology for collecting, analyzing, interpreting, distributing and using geographic information. Geometrics involves the following:

- ❖ Surveying and mapping
- ❖ Remote sensing
- ❖ Geographic information system(GIS)
- ❖ Global positioning system(GPS)



Centurion
UNIVERSITY

*Shaping Lives...
Empowering Communities...*

One of the important applications of IT in the study of global environment is the satellite remote sensing technology. Satellite remote sensing technology helps in the evolution of its data and interpretations offer potentially valuable information for assisting human dimensions of global environmental changes are grouped into five major categories:

1. Fossil fuel consumption
2. Biomass consumption
3. Land use change
4. Agricultural activities
5. Halocarbon production and release.



Centurion
UNIVERSITY
*Shaping Lives...
Empowering Communities...*

Role of information technology in human health

Information technology plays a key role in human health. It has changed the human life style completely. Many health organizations are turning to package solution of IT to streamlining service oriented work in an effective manner. The health service technology mainly involves three systems. They are-

- Finance and accounting
- Pathology
- Patient administration-clinical systems



Centurion
UNIVERSITY

Shaping Lives...
Empowering Communities...

Application of IT in health services

- ❖ With the help of IT packages, the data regarding birth and death rates, immunization and sanitation programme are maintained more accurately.
- ❖ It helps the doctor to monitor the health of the people effectively- tools like CT scans ,ultrasound Sonography uses IT for diagnosis.
- ❖ The information regarding the outbreak of epidemic diseases can be conveyed easily.



Centurion
UNIVERSITY

*Shaping Lives...
Empowering Communities...*

Application of IT in heal services

- On-line-help of export doctors can be consulted to provide better treatment and services to the patient-through Video conferencing.
- With central control system the hospital can run effectively- Most of the ICUs are now using computers to monitor the progress and condition of the patient undergoing treatments.
- Drugs and its replacement can be administered effectively.