ICT & Society CMT 406

introduction to communication and ict

communication has improved and evolved to facilitate out daily activities

In the 21st century, everything to do with communication utilities technology to disseminate information to a larger audience.

Information can be sent out in many ways such as email, Phones, Radio TV Electronic newspaper

Information refers to knowledge obtained from reading , investigating studying or research

We need information to make decision and predict the future.

Communication is the act of transmitting messages . Its a process whereby information is exchanged between individuals using symbols , signs or verbal interactions

Communication is important to gain knowledge . With knowledge we are more confident in expressing our thoughts and ideas

TECHNOLOGY

Use of scientific knowledge experience and resources to create processes and products that fulfill Human needs

Technology is vital for communication

EVOLUTION OF COMPUTERS

First generation 1940 to 1956

They were huge slow expensive and often unreliable

In 1946 Two Americans by the name of Presper Eckert & William Mauchly Build an electronic numeric iterator and computer which was ENIAC. And it used vacuum tubes in stead of mechanic switches

In 1941 the two gentlemen built the UNIVAC which could calculator at the rate of 1000 additions per second

There were new technologies developed at this stage :

i) Vacuum tube – The vacuum tube was n important advancement

an electronic tube about the size of a light bulb was used for internal computer components and were used in thousands

ii) Punched Card – This was used to store data

iii)Magnetic Tape – This was introduced in 1957 It was faster and more compact method of storing data and their use was more reliable & cost effective

(Floppy Disk)

CHALLENGES

i)Vacuum tubes generated a lot of heat causing many problems in temperature regulation and climate control

ii)The tubes burnt out frequently

Challenge with programming machines

Second Generation 1956 1963

There were three main scientists involved in the second generation John Barden , Walter Houser Brattain & William Shockley

Creation of transistors sparked the production of a second generation computers

Transistors were small devices used to transfer small electronic signals across a resistor

Transistors had many advantages compared to other

Advantages

i)Samaller than the vacuum tubes

Needed no warm up time

ii)Consumed less energy

iii) Generated less heat

iv) Faster and more reliable