

Data	
<b>What is Data?</b>	The numbers, words, images and symbols which do not bear a meaning, when standing alone are called data.
<b>Two types of Data</b>	<p><b>Quantitative Data</b> - Measurable Data. (Ex: Age, Price, Height, Weight etc.)</p> <p><b>Qualitative Data</b> - Data that cannot be measured. (Name, Telephone Number, Address etc.)</p>

Processing	
<b>What is Processing?</b>	Converting Data into something meaningful (Information)
<b>Two types of Processing</b>	<p>1. Manual Processing</p> <p>2. Electronic Processing</p>

Information	
<b>What is Information?</b>	The Processed Data.
<b>Qualities of Information</b>	<p>1. Relevant</p> <p>2. Complete</p> <p>3. Accurate</p> <p>4. Timeliness</p> <p>5. Cost Effective</p>

Components of a Computer System	
<pre> graph LR     Input[Input: Submitting Data] --&gt; Processing[Processing: Process and Storage of Data]     Processing --&gt; Output[Output: Giving out the required Information]             </pre>	
<p><b>Example: Finding the average of 9 subjects.</b></p> <ol style="list-style-type: none"> <li><b>Input</b> - Data (Marks of 9 subjects)</li> <li><b>Process</b> - According to the user need. (Get the sum and divide by 9)</li> <li><b>Output</b> - Information (Average)</li> </ol>	

Computer Generations History				Applications of ICT (cont)	
Generation	Major Hardware Technology	Software Used	Characteristic	Health ICT in diagnosis	
1st Generation	Vacuum Tubes	Machine Language	High Heat		CAT Machine - to make 3D images of different parts of body.
2nd Generation	Transistors	High-Level Programming Language	Smaller in Size		MRI Machine - creates digitalized images of internal organs of the body by using strong magnetic fields and radio waves
3rd Generation	Integrated Circuits (IC)	Operating Systems (OS)	Faster Processing		ECG Machine - Uses to monitor heart beat.
4th Generation	Large Scale IC (LSIC)	OS with Graphical User Interface (GUI)	Portable		Cardiac Screening Machine - displays the physiology and the movements inside the heart.
5th Generation	Ultra Large Scale Integration (ULSI)	Internet	Easy Operation		EEG - record the activities of the brain.
Applications of ICT				<b>Telemedicine</b>	The use of ICT to examine and provide healthcare to a patient who is far away from the hospital is called Telemedicine.
				<b>Telesurgery (Remote Surgery)</b>	the ability of a doctor to perform surgery on a patient in consultation with a specialist who is far away, using ICT.
				<b>Medical Teletraining</b>	Specialists' consultation and training using ICT

e-Gove- rnmment	<i>Government to Citizen (G2C)</i>	Ex: Payment of Utility Bills
	<i>Government to Government (G2G)</i>	Ex: Diplomatic & VISA inform- ation
	<i>Government to Business (G2B)</i>	Ex: Payment Services
	<i>Government to Employees (G2E)</i>	Ex: Gazettes, Circulars
Education	<i>In the classroom</i>	Ex: Presentat- ions, Experi- mental Videos, Online Inform- ation collection etc.
	<i>Serves as a teaching aid</i>	Ex: Making presentations, organize lessons using a computer etc.
	<i>Learning Management System (LMS)</i>	Ex: Online Assignments (for students), Online lessons (for teachers)
	<i>Distance Learning</i>	Ex: Digital Library Facility, Web Based Teaching etc.



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Published 24th March, 2022.

Last updated 24th March, 2022.

Page 1 of 3.

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### Applications of ICT - 2

Agricultural Industry	Meteorological Devices
	Automated Insect Control Device
	Field conditions measuring devices
Manufacturing Industry & Business	Crop harvesting using Robots
	<b>Using Robots</b> - 24 hour service, Never get tired, Efficiency, Accuracy, Hygiene
	Video Conferencing
e-Banking System	Human Resource Management (HRM)
	ability to withdraw cash anytime using ATMs
	inter banking or transactional activities.
Online Shopping	pay utility bills, inter-banking transactions, or checking the account balance using mobile phones.
	Open 24 hours a day

### Applications of ICT - 2 (cont)

	able to see things and order at one's convenient place.
	ability to pay using the electronic payment methods
	home delivery of goods. (Saving Transport cost and time)
Entertainment	Digital Photography
	Social Network
	Watching Movies
	e-news & e-books

### Demerits of ICT

Addiction
Building unsuitable friendships through social media
Computers could become infected by virus due to improper use of internet.
Negative effects on psychology of a person by visiting improper websites.
Publishing of edited photographs and videos of individuals affecting their personal lives.

### Evolution of the Computer

Blaise Pascal	The Adding Machine
Charles Babbage	Analytical Engine
Ada Lovelace	First Programmer
Howard Aiken	MARK I



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