

SPECIAL ISSUE ON

THE THECHNOLOGY ON TIME MACHINE

PROLOGUE

For most of the time technology is always considered to be a boon. If we give a proper thought to this word it is really not a boon to the humanity as it has got a lot of adverse effect on environment which indirectly has got its result on humanity. From the very minute the technology had its birth on this earth it was just viewed to be a machine or a thing that reduces the workman ship and makes the work easier for human.

We had never given a thought that whether it would serve us for a long run or is it only for the moment. Many of the technological solutions that we got for a problem are only for a short period of time. What is the use of this type of technology when it doesn't solve our problem permanently on the other hand creates much harm to the humanity

In this paper I have discussed about the evolution and the phase the technology had in different period of time.

Ms.Priya Prabhakar.



TECHNOLOGY ON TIME MACHINE

INTRODUCTION:

Technology has played a major role in the advancement of society and the geared up the urban settlements of every society. Technology is meant to be the knowledge and the art of using the tools, techniques and crafts. It is also used to refer a system or a method of organization and also for a material product. The technology had its start from the technique of controlling fire by the primitive man.

Technology in many ways reduces the physical effort of human being; from the first technology by man that is controlling of fire till the present technology advancement of internet every technology has reduced the human and animal's effort. Let us now see in detail about the stages of inventions and the advantages and disadvantages of technology. For our discussion let us segregate the technology advancement into the

- PRIMITIVE TECHNOLOGY
- GOTHIC TECHNOLOGY
- CONTEMPORARY TECHNOLOGY





PRIMITIVE TECHNOLOGY:

- The immediate technology which either was a discovery or an evolution by the primitive men constitutes to the primitive technology.
- The first industry of the primitives was the Oldowan industry. The Oldowan industry constituted the earliest method of stone tool making.
- A core hard stone with flint property was struck with hammer stone to make a stone tool. This produced sharp edges on the core and also on the flakes, either of which could be used as tools, primarily in the form of choppers or scrapers.
- These tools were of great help to the hunter-gatherers lifestyle. Butchering carcasses, chopping wood, cracking open nuts, skinning an animal for its hide, and even forming other tools out of soft materials from bone and wood were facilitated by these stone tools.
- Later to the Oldowan industry developed the Acheulean industry. The Acheulean toolmakers followed the flake tool method like the members of Oldowan industry but supplemented it by using bone, antler or wood to shape stone tools.





- This type of hammering facilitated more control over the shape of the finished tools. The tools were worked symmetrically and on both sides indicating greater care in the production of the final tool.
- Next to the Acheulean industry was the Mousterian industry. Levallois technique was followed in the Mousterian industry. Levallois technique involves the striking of flakes from the prepared core. A striking platform was first established, then the edges were trimmed of the core and the desired shape is got, the flaking is done from the outer edge towards the centre to create a slightly domed shape, finally when the desired shape is got the flake is detached from the core.
 - The turning point in the technological evolution of humankind was the discovery and utilization of fire. Fire with wood and charcoal allowed early humans to cook their food to increase its digestibility, improving its nutrient value and broadening the number of foods that could be eaten.
- Following the Old Stone Age or the Paleolithic age was the New Stone Age or Neolithic age. This was the period in the development of human technology.





- The early temple area in the Southern Turkey dates back to this Neolithic age. A least of seven stones circle, covering 25 acres, contain limestone pillars carved with animals, insects and birds. Many hundreds of people would have used the stone tool to create the pillars to support the roofs.
- The Neolithic revolution changed much if the societal setup. The first agriculture revolution is termed as the Neolithic revolution where the transition of hunter-gatherers to agricultural settlements took place.
- During the Neolithic revolution many plants and animals were domesticated. The early Neolithic period is regarded as the true farming period. Wild cereals were harvested and the grains were ground into flour.
- The start of farming technology was first made by figs as it cannot be pollinated by insect and therefore can be reproduced only from the tree cuttings.
- Latter settlements became more permanent with circular house built of stones and mud bricks. The settlement had a surrounding stone wall and a stone tower which served as a protection from nearby groups, floods and to keep animals penned.





- Most clothing appears to be made of animal skins, antler pins and bones were used to fasten leathers.
- Later metals were excavated and the tools were made of metals like bronze, copper and Iron. Light house were built.
- Paper was first got from the beaten strips of papyrus plant. Temples and tombs were built by the pharos in the Egypt. Pyramid construction contributed much to the Ancient Egypt monumental construction.
- Primitive sail ships were based on wind flow and later enhanced to sail even against the direction of wind.
 - Early furniture were developed like the stools, beds, tables, shelves and dressers which were made out of stone and wood. Stone furniture was very common during this period.
- The acupuncture and herbal medicine technique evolved in the field of medicine during the ancient period.
- Shadow clocks, forerunners of the sundial, crossbows, water-powered rotating armillary sphere, water wheel, paddle-driven water lifting wheels,





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compartmented wheel, hydraulic Noria, first seismological detector, compass, gun powder, paper making, printing, abacus, chain pumps, puppet theatre, south pointing chariot and sliding calipers added feathers to the ancient cap of technology.

The ancient period also constituted with Antikythera mechanism, a mechanical device used to calculate the astronomical positions. Pipe organs, diving bells, torsion catapults, showers, pulleys, streets, cartography, rut way, caliper, truss roof, crane, escapement, tumbler lock, gears, plumbing, spiral staircase, urban planning, winch, wheel barrow, showers, central heating, lead sheathing, astrolabe, lighthouse, alarm clock, odometer, chain drive, cannon, double-

action principle, levers, water mill, gimbals, dry docks, air and water pumps, surveying tools, analog computers, fire hose, vending machine, wind wane, clock tower and automatic doors were some other evolutions of technology in the ancient times.



One of the Seven Wonders of the World, "The great wall of china" was built during the ancient period and recognized as a wonder of medieval time. This wall is built in the northern boundaries of China extending from Shanhaiguan in the east to Lop Nur in the west stretching about 8,851.8 Kilometers.

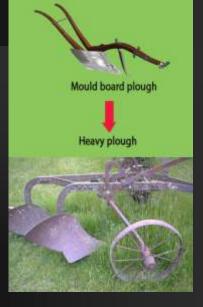




Aviation with kite and proto hot air balloon, the first flying machine constituted the ancient times.

GOTHIC TECHNOLOGY:

- Medieval or the gothic technology is led to a period called "age of exploration" or "age of discoveries".
- The technologies that evolved this time helped the individuals in their travel of finding new trade routes and mapping the planet.
- Heavy plough, hops, horse collar, horseshoes, wine press were some of the technology that evolved in the agriculture arena of the gothic period.
- Heavy plough is nothing but the mould board plough the earlier version of the heavy plough, the depth of the cut is adjusted by lifting against the runner in the furrow, which limited the weight of the plough to what the ploughman could easily lift. The introduction of wheel in place of runner



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allowed the weight of the plough to increase, and in turn allowed the use of much larger mould board faced in metal which eventually led to greater food production and a significant population increase.

- Hop is a female flower cluster which was added to beer as a flavoring and stabilizing agent. It preserved and increased the durability of the usage of beer. It adds a bitter taste and tangy flavor to the beer.
- Horse collar is a part of horse harness device that is used to distribute the load in the neck and shoulder of the horse when it is used for plowing or pulling a wagon.
- Horse shoes are the u shaped thing made out of metal that is used as like the shoes of human to the horse will be nailed to the horse hooves through the insensitive part of the hoof to protect it from the wears and tears.
- Wine press is the machine that is used to extract juice from fruits especially grapes for preparing wine.
- Artesian well, Rib vault, Segmental arch bridge, tread wheel crane, stationary harbor crane, floating crane, mast crane, and wheel barrow were some of the technological invention in the arena of architecture and constructions.





- The natural pumping up of underground water when a rod with hard iron cutting edge is hammered repeatedly against the bore hole.
- Intersection of two or three tunnel vault results in rib vault when they are edged with carved in decorative pattern of amateur piped masonry.
- An arch bridge is an abutments at each end shaped as curve arch. Abutment is nothing but the point where two structure or objects meet.
- Tread wheel crane is a wooden, human powered, hoisting or lowering device that is used to shift building materials in the site.
 - Stationary harbor cranes are the crane machines that were fixed to the harbors which helped in lifting heavy materials from and off the ship.
- Floating cranes are the crane machine which was fixed to the ship for lifting heavy goods in and out of the ship.
- Mast cranes are the crane machine that was specially built in the harbor for mounting the pole to the newly built sailing ship.





- Wheel barrow is a hand-propelled machine with single wheel that is used to move heavy materials from one place to another.
- Oil painting was invented in the arts arena; hourglass, mechanical clocks were invented in the types of clocks, compound crank were invented in the machines arena, blast furnace in metallurgy, paper mill, rolling mill, tidal mills, vertical wind mills, water hammer in the milling arena; dry compass, astronomical compass, stern-mounted rudders in the navigation side; movable type printing press, paper, spectacles, watermark in the arena of paper, printing and reading; Arabic numerals, university in the field of science and learning; functional button, horizontal loom, silk, spinning wheel, in the arena of textiles and garments and chess, forest glass, grindstones, liquor, magnets, and mirrors were some other inventions of this technological period.
- Plate armor, arched saddle, spurs, stirrup, cannon, volley gun, cornered gun powder, supergun, counterweight trebuchet, longbow with massed disciplined archery, steel crossbow, and combined arms tactics were some of the advancements in military technologies.
- A major invention of the gothic technology was constituted by the Islamic people as this period was dominated by the Muslims. They did contribute a vast exploration in fields like Chemical field, food and drink, oil industry, glass





industry, pottery, architecture, industrial millings, cosmetics, institution, mechanical technologies, medical products, military, navigation, scientific instruments, time keeping devices and few other inventions in various fields.

Now let us take a look at particular advancements in these broader fields in a tabulated manner below.

FIELD	INVENTIONS
	 Cocotion, ceration, lavage and mixture. dry distillation purification and oxidization
CHEMICAL PROCESS AND SUBSTANCE	 * steam distillation * water purification * Ethanol. lead carbonatic. medical substances.
	 Ethanol, lead carbonatic, medical substances, carboxylic acid, mineral acids (nitric, sulphuric and hydrochloric acid), organic acids. Arsenic and antimony
FOOD AND DRINK	 * Arsenic and antimony * Coffee * Confectionery * Pure distilled alcohol and ethanol, * Restaurant, three course meal

12





	✤ Sugar refining.
	✤ Silica glass✤ Kerosene
GLASS AND OIL	✤ Refoscile✤ Essential oil
INDUSTRY	 Ø Oil field, petroleum industry, tar, naphtha
	* Petrol
	* Albarello
	* Fritware
	Hispano-Moresque ware
POTTERY	Iznik pottery
FOTIERT	* Lusterware
	* Stone paste ceramic
	* Tin-glazing
	Tin-glazed pottery
	* Kerosene lamp
ARCHITECTURE	* Litter collection facilities
	Surveying instruments
	* Arabesque
	* Central heating through under floor pipes
	* Geared and Hydro powered water supply system
	* Girih tiles, Quasicrystal pattern, and self-similar
	fractal quasicrystalline tiling

13



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VOLUME 2 ISSUE 16

	✤ High- rise roof garden
	* Minaret
	Prefabricated home.
	* Bridge Mill
	* Flywheel-driven Noria
	* Geared and wind-powered gristmills
	* Hulling mill
	* Hydro powered forge and finery forge
INDUSTRIAL MILLING	* mechanical fulling mill
	* Spiral scoop-wheel
	* Underground water mill
	* Vertical-axle windmill
COSMETICS, HYGIENE	* Beauty parlour, cosmetology
AND PURFUMERY	* Chemical depilatory for hair removal
	* Pomade
	* Modern soap
	* Soap bar
	* Tooth paste
	* Perfume industry
	* Perfumes
	* Deodorants, roll-on







	* Ghaliya
MEDICAL	Apothecary, drugstore and Pharmacy
INSTITUTIONS	* Medical School
	* Public Hospital
MECHANICAL	Wind-powered fountain
TECHNOLOGY	Mercury-powered automata
	Programmable analog computer
	# Humanoid robot band, peacock fountain with
	automated humanoid servants.
	* Chain pumps
	* Screw pumps
	* Double-action piston suction pump
	* Six-cylinder "Monobloc" pump
	✤ Weight driven pump
	✤ Wind-powered pump.
	* Fountain pen, gas mask, gate operator, grab,
	spinning wheel, pedal operated room, control
	engineering, trip hammer in paper marking, conical
	valve, boiler with tap, crank-slider mechanism,
	differential pressure, hurricane lamp, float chamber
	etc.
	* Cranked Archimedes screw

15





	* cranked reel
	brace, cranked well-hoist
	st paddle wheel boat powered by crank and connecting
	rod mechanism
	* Rotary grindstone with treadle
	✤ Geared hand-mill.
	Alcohol as an antiseptic
	* Clinical pharmacology, clinical trial, randomized
MEDICAL PRODUCTS AND SURGERICAL INSTRUMENTS	controlled trial, and efficacy test.
	Cough medicine and syrup
	Drugs, herbs, plants and chemical medicines
	* Parasitology
	* Phytotherapy
	* sexual dysfunction and erectile dysfunction drugs
	* Adhesive bandage
	o verte saw
	* Cancer surgery
	* cataract extraction, hypodermic needle, injection
	syringe
	* Catagut suture
	* Fetus extraction
	& General, oral and inhalation anesthesia

Ms.PF





 Ligature Tracheotomy Cartographic Qibla indicators (Cartographic Qibla is a brass instrument that shows the direction in which a Muslim should face during the time of prayer. Cartographic Qibla with sundial and compass Cartographic Qibla with sundial and compass Kamal, Qarib, Rudder with tackle, permanent sternpost-mounted, xebec and polacca Attempt at gliding Equatorium Saphae Zuraqi Fixed-wired knowledge processing machine Mechanical lunisolar calendar computer Mechanical geared astrolabe Linear astrolabe
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 Mechanical lunisolar calendar computer Mechanical geared astrolabe SCIENTIFIC INSTRUMENTS
SCIENTIFIC INSTRUMENTS
SCIENTIFIC
INSTRUMENTS
Programmable analog computer
Mechanical geared astrolabe with calendar computer
Plate conjunctions
* Aerometer
* Conical measure
* Laboratory flask and pycnometer





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VOLUME 2 ISSUE 16

	Refrigerated coil and tube
	* Mural instruments
	🕸 Horary quadrant
	✤ Sine quadrant
	* Almucantar quadrant
	✤ Quadrans Vetus
	✤ Quadrans Novus
	✤ Sextant
	* Observation tube, intromission theory of vision,
	camera obscura, magnifying glass.
	Compendium instrument, framed sextant, seamless
	globe and celestial globe, shadow square.
	* Astronomical alarm clock
	Geared mechanical lunisolar calendar computer
TIME KEEPING DEVICE	Geared mechanical astrolabe
	Monumental water powered astronomical clocks
	Observational clock measured in seconds
	Programmable castle clock
	※ Quadrans vetus
	Weight – driven mercury clock
	Weight- driven water-powered scribe clock
	* Navicula de venetiis

18



	# Jewel box device
	Observational clock, measured in seconds
	* Geared water clock, elephant clock, programmable
	castle clock, weight driven water clock, water
	powered scribe clock and monumental water
	powered alarm clock.
	Airmail system through home pigeons
	* Algebra
	Biographical dictionary
	✤ Check reading
	Cryptanalysis and frequency analysis
	* Diary
	Experimental psychology
OTHERINVENTIONS	* Geomancy
	Persian Carpet
	Scientific method, experimental science and physics
	* Fireproof paper, glow-in-the dark ink, rust-free iron
	and waterproof textile
	Fustian, Jinete, Graph paper
	* Albogue, alboka, hornpipe, clarinets and single-reed
	instrument
	☆ Guitar, lute and oud





* Hurdy gurdy and stringed keyboard instrument
* Mechanical musical instrument, hydraulic organ
Programmable automatic flute player
* Timpani, naker and naqareh
Rebec and rebab.
* Crank and connecting rod
* Printing press
* Parachute
* Mariner's astrolabe
✤ Dry dock

- If we take a look at the above inventions and technologies it clearly explains us that the technology in the medieval period is human oriented.
- This was the period where advanced technologies had its start and there were numerous technologies invented and the society was changing industrial.
- As there were many industries, the atmosphere and the environment started getting polluted.



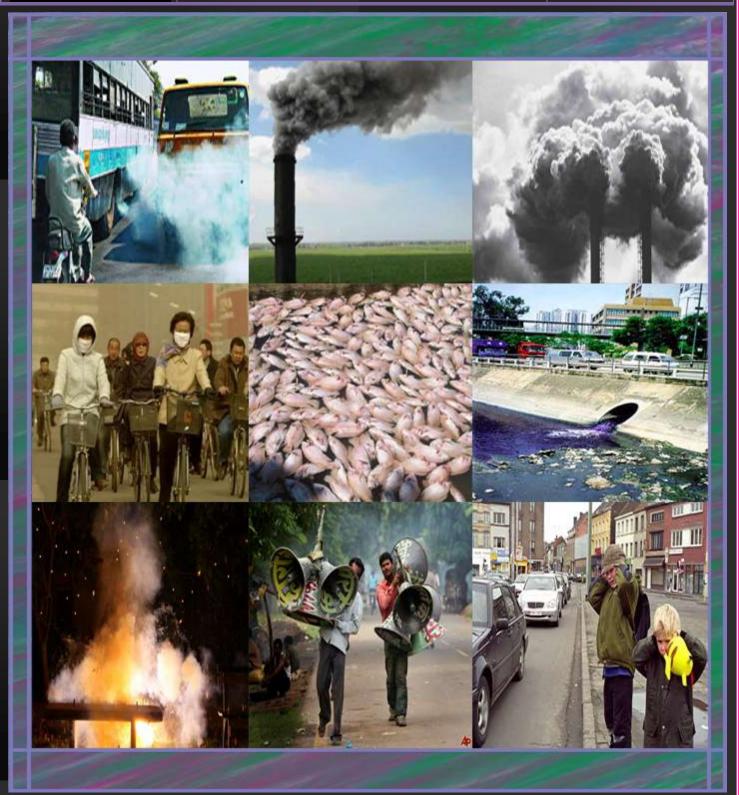


- There prevailed different kind of pollution like the air pollution, noise pollution and water pollution. The natural resources were spoiled and became inconsumable by human.
- Even if it is consumed it results in disastrous result for the humans. They are affected with incurable diseases or die.
- Not only human it also affects many animals, the waste water that gets mixed into the river and sea kills the fish and other water living organisms of that locality. It results in the adequate imbalance of the ecosystem.
- The vast improvement in the technology has made human a sophisticated and a highly lethargic being. Many of the physical exercise of human were reduced by the technology.
- Hence here man tends to take a high and exploits all the available resource where the resource here are to be shared with animals and plants. We even ready to kill our co-resident of our planet for the well sophisticated life of humanity.





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MODERN TECHNOLOGY:

- The technologies of the modern times are the ones following the trend of medieval inventions and it's up gradations.
- If we observe the trend of the medieval inventions and technologies it's focus is on the humanity, and not the globe as a whole which has reached the present pathetic situation of the humanity and the adverse imbalance of the nature.
- The very apt example of this could be the paper that was submitted at our series 1 international conference on progressive global development. The paper was on CFD analysis and experimental investigation of CI engine using hydrogen with diesel
- It was said that hydrogen could be considered as the alternative fuel for the conventional fuel that is being used commonly now. It was also said that along with hydrogen, alcohols (methanol and ethanol), liquefied petroleum gas (LPG), compressed natural gas (CNG) and vegetable oils can be used as alternative fuels.





- In the review process the reviews or the clarifications that were put forth were the ethanol is derived from crushing potatoes, corn, sweet potatoes, sugarcane and other plants. Now due to the population explosion we are converting all agricultural land into commercial plots where after years we could not use this as an alternative fuel. And in the case of methanol, the methane gas in this is not advisable as it is toxic in nature.
- Liquefied Petroleum Gas (LPG) is said to be derived by the synthesis of refining petroleum or WET natural gas, commonly derived from fossil fuels when got during the refining of crude oil which again is the process of petroleum production. Then the same threat got from petroleum is expected as crude oil is depleting. Again if natural gas is taken its primary constituent is methane.
- Again CNG is produced by compressing natural gas whose primary constituent is Methane. Also the vehicles need a large space for storage unlike the space required for liquid fuel.
- Hydrogen has also got the same drawback of being produced from methane and fossil fuel. It can also be produced from atmospheric gases but hydrogen is found in traces. By volume of all gases in the atmosphere it comes in the 9th place. How far this could be replaceable and whether this alternative would be





economical? If H_2 is got from electrolysis of water again water is becoming a threat. It is not found abundant even for the regular usage.

- Can vegetable oil be used as fuel alternatives for petrol engine? All these questions were unanswered and the participant did not want to continue in this and hence withdrew even without prior information.
- All these suggest that he was very much oriented towards the problem and was aiming at a solution which would solve the problem in the present. He was not worried about the ill effects it could cause the negative contribution it has got towards the environment, whether this would be a permanent solution and help the problem get solved in a long run.
- Not only he almost all the researchers and scientist are with this type of mentality. They focus only on rapidity whose results vanish rapidly and not for progress whose result progresses for years.
- We have not only disturbed the balance of nature or humanity but also the animals. We move in their living space and hunt them for their skins and precious items in them like the deer's horn or the elephant's tusk. We acquire





their place for building residence and extending our living area whereby highly disturbing their peace of survival.

- Most of the developed countries think themselves to be smarter by dumping or testing unfriendly environmental activities in their neighboring countries or continents thinking by doing so they can protect their country from pollution. Think is their country or continent somewhere in the outer space or in some other planet? No, Every country and continent here share the same space and are in the same planet. When a part of this planet gets harmed or extinct will it not affect the other part equally? Yes, it will and hence protecting the whole globe from pollution would be a smarter idea than protecting own country.
- As the proverb goes there is enough in the environment for everyone's need but not enough for everyone's greed. Greed is a suicide pill if you have more of greed in you and start exploiting others with this attitude you are killing yourself in a long run and not others.
- Hence the orientation of technology must be changed for a progressive global development which benefits a solution at a long run.





POST- MODERN TECHNOLOGY:

- The evolution of technology has made its adverse effect on nature. The technologies in the medieval period were designed with humanity as its core objective as like to reduce the workmanship and to facilitate easy processing and transfer of heavy objects. The same trend was followed in the modern period till the very minute.
- The very important thing that should be understood is we have reached the ultimate level of sophisticating the technology to favor human and are stuck creating version by upgrading minute changes which is on the other side affecting the nature.
 - Now it's really a high time to give a pause to all the technological advancement done targeting the humanity. It is our turn to change the technology nature friendly and transform all those nature dangerous human friendly technology to nature and human friendly technology.
- This thought is yet to reach in the minds of the researchers and scientists who are still experimenting to advance the developed technology.





- If we are not going to pause this and still continue to disturb the balance of nature then not only the scientist and researchers but the whole humanity should be prepared to face the aggression of the nature which will definitely be disastrous.
- The technology evolving must be invented environment friendly or which serves both environment and humanity, also the evolved technology serving only the humanity must be advanced to serve both human and environment.
- Technology and its advancement must aim only at its purpose and quality but not at money and quantity. The weekly advancements in the technology must be avoided and it is the duty of the government and importantly the public who shouldn't encourage and support so many weekly versions of the same product.
- The craze and the opinion about the electronic at present can be eradicated only by restricting the quick and unwanted version updates of the same product. People are losing and wasting a huge amount of money and their life in this technology and its evolution and definitely not the environment as the nature has got its own power to replenish it also it supports our living and by the disturbance we only destroy ourselves. It is like an "INVISIBLE SUICIDE."





- Just give a thought what are we going to do with more technologies when we the humanity are going to get extinct.
- The very famous phrase of the present that is the world is going to end by 2012 is not true. It is not the world which going to come to an end, it is we the humanity who are going to get finished. World or the earth is eternal and already it has got lot of extinctions happened inside it. So it is "SAVE HUMANITY" and not "SAVE EARTH", Earth is like an humanoid it can be repaired even if it reaches its extreme but humanity is not so.
- The main aim of the technology was to serve humanity and not destroying the humanity. These blind inventions of technology are also because of the system of education we have. We don't analyze which is good and which is bad, if it proves to be good at the moment we do it. Rapidity is the key ingredient in the death of humanity. Nothing can be pleasant like progressiveness, the thought must be at a long run and considering all the aspect of the globe must be the inventions of technologies.
- Don't get into a temporary green technology, when you tend to change the technology going green consider and have a repeated thought whether your change of technology to green is really green permanently or a usual temporary solution.





Hence technology must uplift humanity; its focus must also be in this along with reducing the man power and professionally helping the humanity.

CONCLUSION:

- Technology is something that should evolve the humanity from its current level and not something that should take the humanity a level lower than what they are at the present.
- The technological inventions have created a menace in the imbalance of ecological cycle and human health cycle. It has also polluted the environment on a greater magnitude.
- Now is it that important to have more and more technologies by lessening the quantity and lifetime of humanity or to have proper balance in the human quotient and longer lifetime with advisable amount of technology?
- Never do a work blindly or for a timely pleasure and recognition. Your work must always support humanity for its up gradation as your future generation will be one among the humanity who will enjoy its pleasure.





- With improved technology individuals are made to get stuck within four falls whereby they forget to enjoy the nature. Visiting the places of natural attraction was the vacation favorite of many few years back but now we neither have such a natural attraction as we have already spoiled it nor we have time to make a visit to the places of scenic beauty if we have one.
- Hence enjoy nature, technology and life all together because as whole it make life beautiful and even if you tend to affect one the other will get affected automatically.

