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A.G. TEACHERS COLLEGE, AHMEDABAD

The AGian Eco-Post



Year 2019-20

Issue 1/4

Australia Bushfire: After Amazon, it's Kangaroo Island that's burning

Inside this issue:

Climate Change

Greta Thunberg 2-3

Goals of SDG

Sustainable City

E-waste

Eco-Pledge

Fun Time

2020 Resolution

After the world witnessed the devastation of the Amazon rainforest wildfire, it's the Kangaroo Island which is burning. This is the worst wildfire that Australia has experienced in decades.

Bushfires are slow moving fires that have a high heat output which usually pass in 2 -5 minutes and oftenly

triggered by natural sources such as lightning strikes but it can also result because of electric arcing or even arson. Sometimes a combination of conditions such as severe drought and heat waves turn the flora into tender and strong winds adds to the severity. The wind not only add O₂ to fuel the intensity of the fire but it also influences the direction in which it travels.

An estimated of 60,000 km² of land has burned and half a billion of plants and animal are believed to have perished in the fire including 30% of al Australian koalas - becoming a threatened species. This fire









thunderstorm. However, the rain from the storm evaporates from the heat before it can reach the ground. So, rain from PY-







has done 4 times more damage than Amazon fire.

The smoke produced is more than 5,500,000 km². Power and intensity of these bushfires are causing their own weather phenomena called -"PYROCUMULONIMBUS THUNDERSTORMS" or as NASA describes it as "A firebreathing dragon of clouds". It is a very complex process in which the smoke from extremely powerful fire is propelled in the atmosphere from an intense updraft where it becomes a part of the clouds. The faster this happens, it is most likely that it will spark lightning which produces a

ROCUMULONIMBUS

won't put out fires but will spark lightning causing even more fire.

Experts believe that climate change is amplifying the conditions necessary for fire-storms to form.

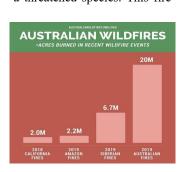
Researchers have predicted that by 2060 they could begin to happen in spring as well as summer.

Source: http://youtu.be/Kl4jmMNGHN4

- Nabila A. Khan

Special points of interest:

- Person of the Year 2019.
- Ways of making every day an Earth day.
- Know about the 17 SDG.
- How to make more smart and Eco city?
- How to recycle the Ewaste?





SAVE AUSTRALIA





Climate change in INDIA

India is the 13th most vulnerable country to climate change. Since more than 60 per cent of its agriculture is rain fed and it hosts 33 per cent of the world's poor, climate change will have significant impacts on the food and nutritional security. Here is a series of maps that capture climate change impacts on the country.

IMPACT AND VULNERABILITIES IN INDIA:

⇒ The coast and islands: The 7,517 km Indian coast can be divided into the west coast, the eastern coastal plain and the biodiversity-rich Indian islands. The region is already witnessing climate change impacts like frequent, severe cyclones and sea ingression due to sea level rise.

A one-metre rise in sea level will displace 7.1 million people in India

• Gujarat: Junagadh and Porbandar districts to witness increased intensity and frequency of cyclones Rainfall to increase by 6-8% in the western coast by the 2030s.

 Maharashtra: Sea level rise of one meter will inundate 0.18 per cent of the state Thane has the highest vulnerability to climate change.

Kerala: Coconut yields are projected to increase by 30%. No. of rainy days to decrease; intensity
of rainfall to rise by 1-4 mm/day.

 Karnataka: In Dakshina Kannada and Udupi, 28% coast has reported erosion. 10-15% decline in rice yield by 2050.

 Tamil Nadu: Sea water intrusion will impact drinking water sources; 13 districts already affected -Six coastal districts to witness intense cyclones.

Andhra Pradesh: Reduction of fish catch in coastal areas. Temperature fluctuation will negatively
impact winter crop. Coconut production to increase by 10%.

⇒ <u>The desert region</u>: The Thar desert, covering 10 per cent of the total geographic area of India, is the seventh largest desert in the world. Thar is also the world's most thickly populated desert. The region has witnessed unheard of floods

Rajasthan is the

Gujarat: There will be heat stress and water shortages in the state.
 Luni and the West-flowing rivers of Kutch and Saurashtra to experience acute water shortage. The severity of drought for the Mahi and Sabarmati rivers will increase between 5% and 20% by 2050.

in the recent past.

Jammu and Kashmir where the greatest number of cold waves have occurred.

 Rajasthan: Western Rajasthan will witness severe and very severe droughts. The share of water for agriculture is set to reduce from 83% to 70% by 2050. ⇒ The Indian Himalayan region: The Himalayas, which represent

16.2 per cent of the total area of the country, are not only a key watershed of India but also play a crucial role in the monsoon system. Climate change impacts on the mountain range can affect the entire sub-continent.

The mean temperature of the Himalayas has gone up by 0.6°C in the past 30 years; the frequency of warmer days is also increasing

about

CLIMATE CHANGE PROJECTIONS AND IMPACTS:

Flash flood due to glacial lake outbursts may lead to landslides and affect large-scale food security. Himalayan glaciers melting faster than others elsewhere in the world. Productivity of apple has decreased by 2-3% over the past few years; this will go down further. Project increase in intensity of rainy days is 2-12% in the Himalayan region.

Source: <u>cdn.downtoearth.org.in</u> - Athira P.Kumar

10 ways to make everyday Earth Day

- Go outside more
- Get reusable bags
- Recycle
- Buy organic food and products
- Stop eating meat
- Start composting
- Start gardening
- Use glass bottle over plastic
- Make your own cleaning products
- Plant a tree



Source: theecologycenter.org

-Athira P. Kumar

Earth Day

Earth Day is a special day, Bringing great awareness, Learn what you can do to help, Show that you are not careless.

Recycling is an easy thing,
Placing items in a special bin,
Some things you don't throw away,
Paper, glass and tin.

Conserve resources and find new ways,

To get you where you're going,

Take a walk or ride a bike,

Keep air pollution from growing.

Don't forget about Arbor Day, Plant a tree that will thrive, Grow a vegetable garden, Help our Earth remain alive!

-Musharrat Ikkiswala

1.4 million pupils participate.

WE ARE THE VOICELESS FUTURE OF HUMANITY.

WE WILL NO LONGER

ACCEPT THIS INJUSTICE.

Students from more than 1,800 cities in 110 countries protested against the escalating climate crisis.



2019



I AM 16 YEARS OLD, I COME FROM SWEDEN AND I WANT YOU TO PANIC. 2

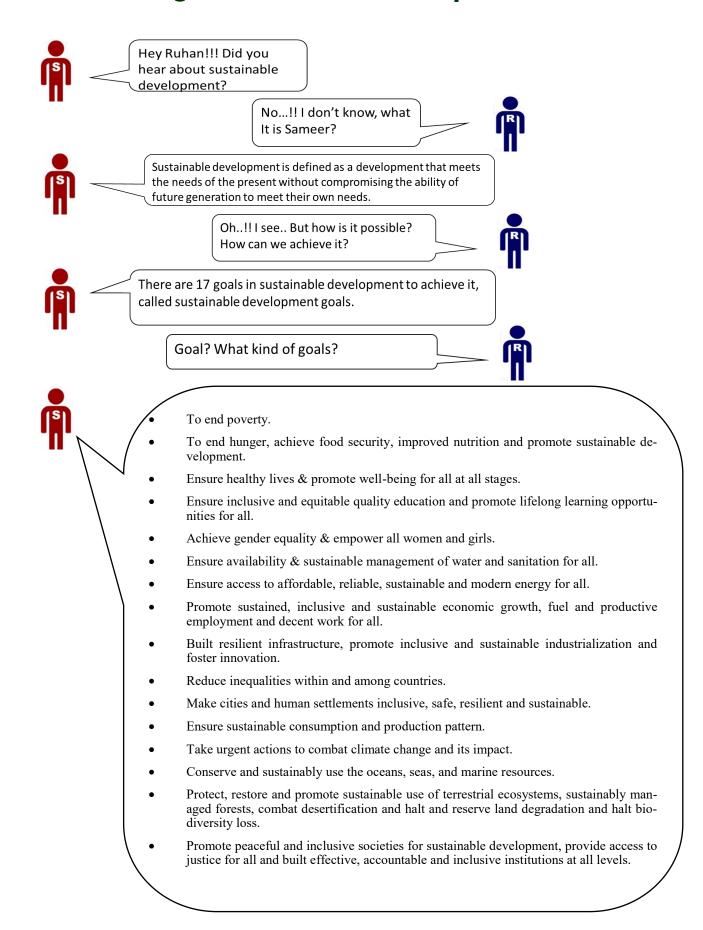
Became Person of the year 2019

Source: blog.kickresume.com

-Nabila A.Khan



Knowing Sustainable Development Goals



Making smarter, more sustainable city

♦ Concept:

Sustainable city is a city designed with consideration for social, economic, environmental impact without compromising the ability of future generations to experience the same. This city will be inhabit by people whom will be dedicate towards minimization of require input of energy, water, food, waste, output of heat, air pollution-Co₂, methane and water pollution.

♦ Key Features:

- Wherever possible, renewable resources will be used instead of conventional resources.
- 2. New homes will be energy efficient and affordable.
- 3. Number of trees will be more than total population of city.
- 4. All electricity of the city will be produce by renewable energy sources.
- 5. All education and health management societies will be digitalized.
- Public transport will be seen as a viable alternative to cars.



- 7. Public transport will be safe and reliable.
- 8. Walking and Cycling will be safe.
- Traffic lights, Municipal and all government offices will be connect by smart sensors.
- 10. Water and Drainage system will be recycle.
- 11. Waste will be seen as resources and will be recycling wherever possible.
- 12. City will be cover by CCTV and Wifi.
- 13. Optimal building density to make public transport viable but avoiding the creation of Urban heat islands.
- 14. City will have more and more Ecoindustrial park and Green building.

♦ Current Facts:

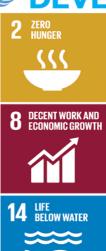
- 1.Denmark running on 100% renewable energy for the year 2050.
- 2.Copenhagen is a city where over 50% of the population get around on bicycle.

Source: http://www.bbc.co.uk/ bitesize/guides/zqvxdmn/revision/1

-Rajput Parth

















e-waste, Ξ Šo chemicals found Lead blood, nervous system with the body parts that they affect. & kidneys of the toxic body lungs Cadmium Chromium PVC Mercury a few Just Weight in MT 2023 2021

tonnes (MT) = 1000 Kg

2017

2015

2013

2011

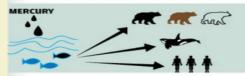
2007

Growth of E-waste in India

Electronic waste: an overview

Lead tends to accumulate in the environment and has high acute and chronic effects on plants, animals and microrganisms.





When inorganic mercury spreads out in the water, it is transformed to methylated mercury, which percolates through the food chain, particularly via fish.

Chromium VI can cause damage to DNA and is extremely toxic in the environment.



Electronic waste or E-waste

It describes discarded electrical or electronic devices. Used electronics which are destined for refurbishment, reuse, resale, salvage recycling through material recovery, or disposal are also considered e-waste. Informal processing of e-waste in developing countries can lead to adverse human health effects and environmental pollution.

WAYS TO REDUCE E-WASTE AND ITS HAZARD :

The Following are the ways to curb these environmental hazards, reduce electronic waste, and save our planet.

- Sell/Donate old Electronics.
- Recycle and Dispose of E-Waste Properly.
- Maintain your Electronics.
- Repurpose old electronics.
- Store Data Online.
- Buy Energy Star Rated Electronics.
- Rent Electronic Equipment instead of Buying.

Source : https://get-green-now.com/reduce-ewate-hazards/

-Yasmin Bano

HOW E-WASTE IS PROCESSED? CONSUMPTION COLLECTION TRANSPORT SECONDARY PROCESSING DISPOLLUTING DISMANTLING LANDFILL Generation & Stockpiling Collection Treatment Output

प्रतिज्ञा

पर्यावरण को बचाना हमारा ध्येय हो,
सबके पास इसके लिए समय हो ,
पर्यावरण अगर नहीं रहेगा सुरक्षित ,
हो जायेगा सब कुछ दूषित,
भले ही आप पेड़ लगाये एक ,
पूरी तरह करे उसकी देखभाल ,
सौर ऊर्जा का करे सब उपयोग ,
कम करे ताप विधुत का उपभोग,
रासायनिक खाद का कम करे छिड़काव ,
भूमि को दूषित होने से बचाव ,
कचरों का समुचित रीती से करो निपटारा,
फैक्ट्रियो मे जब सौर यन्त्र लगे जाएगी,
वायु प्रदूषण मे अपने आप कमी आएगी ,
तब जाकर पर्यावण प्रदूषण मे कमी आएगी,
आधी बीमारियों अपने आप चली जाएगी

कविता

अपने हित के खातिर देते है मौत को बुलावा
गुस्से मे यू तद्कती उगले धरती लावा
रोक सको तो रोक लो क्योकि है धरती विनाश पर
अब नहीं पानी बरसाते बादल है अवकाश पर
पेड़ कटते है लेकिन दोष नहीं कुल्हाड़ी का
हर जगह गड्डे है नाम निशान नहीं पहाड़ी का
जो पालती हमको हम फिर उसको क्यों खत्म कर रहे है
फाड़ के सीना इसका अस्थियो में क्या खोज रहे है
आज खेत सूनसान पड़ा और दिखते नहीं पेड़ है
कोई बता दो कहां खो गया इमली का पेड़ है
पेड़ कटे जंगल बट्टे और बंदर छत की शान है
जंगल का राजा सड़क पर और जंगल मे इन्सान है
- उन्नति व्यास

-उन्नति व्यास



MARKET FUNTIME HARRISTANDE

ENVIRONMENTAL JUMBLE

| SR NO. | DEFINITION | JUMBLED WORDS | ANSWERS |
|--------|--|------------------|---------|
| 1 | Air surrounding the earth. | OSHETMAPRE | |
| 2 | Natural fertilizer. | OCTOMPS | |
| 3 | A way to reduce waste. | CELGRYICN | |
| 4 | Consume carbon dioxide and produce oxygen. | ESRTE | |
| 5 | Global warming is changing this. | MECILAT | |
| 6 | Energy from the sun. | ALOSR GYNREE | |
| 7 | Burning fossil fuels is a main cause. | AOLBGL MGIRWNA | |
| 8 | Provides a non-polluting form of transport. | CIBELYC | |
| 9 | Describes foods produced without chemicals. | ANIGROC | |
| 10 | Illness caused by pollution. | MAHATS | |
| 11 | Energy that nature can provide continuously. | WEBENLRAE REGYNE | |
| 12 | Group of living organisms and their environment. | TYEOCSMSE | |
| 13 | Most common greenhouse gas. | BANORC OXDDIEI | |
| 14 | Gas that traps heat from the sun. | NOSGEEHRUE SGA | |
| 15 | Impact of a human being on earth. | NAOCBR RONFPITNO | |
| 16 | Part of the earth's atmosphere | OENOZ YREAL | |
| 17 | Toxic gas found on farms and landfills. | NHEMTAE | |
| 18 | The cleanest fossil fuel | LRAAUTN SAG | |
| 19 | Place where trash sent or collected. | LDFAILNL | |
| 20 | International treaty | TOKYO OCLOTROP | |

-Musharrat Ikkiswala

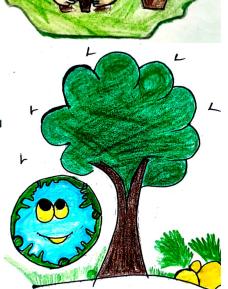
WORD SEARCH

WASTE PREVENTION CONSERVATION CARBACE **HAZARDOUS** FOOD YARD **DEBRIS** BIODEGRADABLE ENVIRONMENT RESTORATION PRESERVATION **PROTECTION** NATURAL RESOURCES SUSTAINABLE RENEWABLE **GREENHOUSE EFFECT** POLLUTION CLIMATE **GLACIER** MELTING

| w | Ε | E | м | w | ı | L | D | L | ı | F | E | E | N | D | Α | N | G | E | R | E | D | Р | н | т | Π |
|---|---|---|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|---|---|
| F | Н | s | s | м | E | Н | Ε | 0 | z | 0 | N | E | ι | A | s | 0 | P | s | ı | D | w | , | T | G | Ī |
| Z | A | U | В | Ε | P | Y | S | P | K | N | Z | c | F | Н | F | 0 | 0 | Т | P | R | ı | N | Т | U | Ī |
| L | z | 0 | Z | L | Α | N | E | Q | 0 | Α | L | G | N | ı | М | R | A | w | N | 0 | В | R | Α | C | |
| A | A | Н | D | Т | D | w | R | ı | С | D | Ε | Y | L | D | N | E | ı | R | F | 0 | С | Ε | K | w | |
| R | R | N | R | 1 | Z | Н | T | P | υ | N | ٧ | S | C | Ε | L | В | A | S | 0 | P | S | ١ | D | W | |
| U | D | E | A | N | R | A | ı | н | L | 1 | Ε | P | R | E | S | E | R | ٧ | A | Т | 1 | 0 | Z | С | |
| T | 0 | E | Y | G | R | E | F | Q | ٧ | w | L | Ε | N | ٧ | ı | R | 0 | N | М | E | N | Т | P | 1 | |
| A | U | R | H | 0 | N | 0 | ı | T | A | N | ı | M | A | T | N | 0 | C | F | U | E | L | S | L | Z | |
| N | S | G | T | В | М | Y | C | N | D | Z | S | J | C | H | E | М | ı | C | A | ι | S | A | Н | В | |
| G | A | S | 0 | ι | F | ı | A | E | X | T | ı | N | c | T | 1 | 0 | N | R | N | A | E | L | С | E | |
| 0 | E | F | \$ | ¢ | ¢ | E | T | A | M | 1 | L | c | c | P | F | Y | Ģ | E | R | w | 1 | \$ | L | N | |
| R | Т | T | F | С | Ε | X | 1 | G | ٧ | s | Ε | L | В | A | N | 1 | A | т | S | U | s | В | Т | 0 | |
| A | Ε | 0 | s | 0 | 0 | A | 0 | D | 0 | Р | R | Ε | ٧ | Ε | N | т | 1 | 0 | N | R | Α | c | N | 1 | |
| G | N | L | 0 | Ε | R | N | N | м | P | м | G | L | A | c | 1 | E | R | R | 0 | D | E | 0 | x | T | Ц |
| N | E | 0 | В | R | R | E | S | L | T | 0 | S | G | A | R | В | A | G | E | A | F | E | X | R | A | Ц |
| S | 0 | c | 1 | A | E | 0 | S | E | N | P | L | N | U | c | L | E | A | R | F | F | c | P | A | T | Ц |
| L | ı | ı | 0 | S | w | S | F | T | R | S | Ε | L | A | Ε | 0 | D | G | Ε | Ε | Α | 0 | R | D | S | Ц |
| 1 | S | R | T | L | 0 | E | 0 | N | A | ٧ | E | M | U | С | T | E | K | S | N | L | S | Ε | 1 | E | Ц |
| s | Ε | U | В | c | 0 | R | N | U | 1 | T | A | ' | G | T | D | s | X | R | E | Α | Y | ٧ | A | R | Ц |
| s | Α | В | F | Ε | E | G | Ε | E | R | A | 1 | т | c | 0 | 1 | D | A | E | R | В | s | Α | T | 0 | Ц |
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| F | U | 1 | A | P | т | U | 0 | s | U | L | Ε | В | N | Ě | P | | N | 0 | Y | L | E | В | 0 | E | Ц |
| c | Н | S | F | L | 0 | 0 | D | R | T | Q | Y | s | Ε | 1 | N | s | F | P | F | G | М | s | N | D | H |
| D | X | Н | L | G | R | E | E | N | P | N | K | X | P | E | S | T | ı | C | ı | D | E | Š | М | R | |

OCEAN RAINFOREST OZONE LAYER GLOBAL WARMING **ECOSYSTEM AFFORESTATION** WILDLIFE DISPOSABLE **ECOLOGIST DEFORESTATION ECOFRIENDLY** CONTAMINATION ENDANGERED SPECIES DISPOSAL GREEN **POWER**

DESERTIFICATION



YASMIN BANO

FOSSIL

FUELS

ENERGY



New Year Resolution 2020



| | _ |
|--|---|
| 🚁 કું બિનજરૂરી ગાડીનો हોન વગાડીશ નહીં. | - Twinkle Patel |
| ુ દુ વીજળીનો જરૂરરીયાત મુજબ વપરાશ કરીશ. | - Priya Yadav |
| ૄ બને ત્યાં સુધી પ્લાસ્ટિકની બેગ નો ઉપયોગ નહી કરૂ, અને જરૂરી થાય તેવી બેગ વાપરીશ. | શેય ત્યાં ફરીથી ઉપયોગ - Avni Gadhe |
| ૄ મારી આસપાસ સ્વચ્છતા રાખીશ, કચરો કરીશ નહી. | -Hetal Patel |
| ૄ હું ભૂખ હોય તેટલું જ જમવાનું થાળીમાં લઈશ અને અન્નનો બગાડ કરીશ | . નહીં. -Kumudshree Pancholi |
| હું કંમેશા <i>વૃક્ષારોપણ</i> કરીશ અને આસપાસ ના <i>વૃક્ષો નુ</i> જતન કરીશ. | - Rahul Chavda |
| હું હમેશા પર્યાવરણ માટે મારા શ્રેષ્ઠ પ્રયાસો કરીશ અને હમેશા પ્રાણીઓને મ | દદ કરીશ. - Rahul Sharma |
| હું પાણીનો બિન જરૂરી ઉપયોગ નહીં કરું. | - Urvashi Rathod |
| ું નજીકના સ્થળે જવા માટે જાહેર બસનો ઉપયોગ કરીશ. | - Rukhsar Shaikh |
| 🚺 ઊર્જાનો ઓછામાં ઓછો ઉપયોગ કરીશ અને પર્યોવરણ ને નુકસાન ન થાય તે | નુ ધ્યાન રાખીશ. - Leena Panchal |
| 🕑 હુ ફેશન ને નકારી પોતાની જરૂરીયાત મુજબ વસ્તુ ની ખરીદી કરીશ. | - Tausif Raza Pathan |
| ું અશ્મિભૂત ઇંધણના ઉપયોગ ઘટાડવા અને શુધ્ધ ઇંધણ પર સંપૂર્ણપણે ધ્યા વાહન નો ઉપયોગ કરીશ. | ન કેન્દ્રિત કરવા ઈલેક્ટ્રીક - Parth Rajput |
| बिजली का बेवजह इस्तेमाल न करके ऊर्जा बचाने की कोशिश करूंगी । | - Unnati Vyas |
| I will preserve water in my everyday life. | - Yasmin Band |
| I will dispose dry waste and wet waste separately. | - Athira Kuma |
| I will use public transport or will walk down for near distances. | - Mehnaz Band |
| રૂ કયરો હંમેશા કયરાપેટીમાં નાખીશ. | - Kaynat Sindh |
| I will use kitchen waste for composting. | - Musharrat Ikkiswala |
| I will make atleast one energy-efficient change in my home. | -Nabila Khan |



A. G. Teachers College

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🚹 A.G. Teachers College

a.g.teachers_official

ABOUT COLLEGE

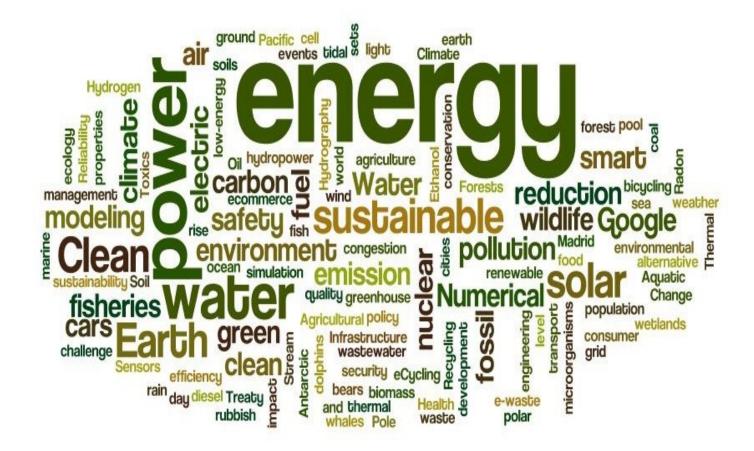
A.G. Teachers college-CTE was established by the Ahmedabad Education Society in 1952, the first teachers training college of Gujarat has completed 68 years of unstinting contribution to teacher education. Even in the changed academic scenario of today, the institution continues to be guided by the traditions and the goals set by the founding fathers. The college aims at shaping the youth into prospective teachers who can undertake their responsibilities of transforming young citizens to responsible citizens. It is a matter of pride for the institution that it was upgraded by the Central Government as College of Teacher Education (CTE) which undertakes the responsibility of in-service teachers training for three districts (Ahmedabad, Gandhinagar, Surendranagar). The college has been accredited with "A" Grade by NAAC, UGC in 2007 and 2016 respectively.

MISSION

To contribute highly professional, highly challengeable, highly ethical teachers through rigorous training for comprehensive development of the nation.

VISION

Qualitative contribution through teaching-learning process for the empowerment of the nation.



Drawing By: Priya Yadav Created by: Nabila A. Khan

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