



### EDITORIAL BOARD

- **Editor in Chief**
  - ▶ Dr. Vinod M. Mohitkar
- **Editorial Committee**
  - ▶ Prakash G. Sayagavi
  - ▶ Bhuvan A. Damahe
  - ▶ Ms. Anuradha Bhatia
- **Regional Co-ordinators**
  - ▶ Dr. Chandrakant Kapse
  - ▶ Mr. Vijay Kolhe
  - ▶ Dr. Shrikant Patil
  - ▶ Dr. Anand Pawar

### MSBTE embarks on a National Digital platform- Houses documents on National Academic Depository

National Academic Depository (NAD) is an initiative of Government of India, facilitated by MHRD. NAD is a national database set up to hold academic awards issued by Academic Institutions (AI) in an electronic form.

The facility is to help students, Higher Education Institutions and Employers to access degree certificates of candidates. It's an established Digital Depository for School Leaving Certificates, College Degrees, Academic Awards and Mark sheets, on the pattern of a Securities Depository. This will benefit validate their authenticity, safe storage and easy retrieval.



*Hon. Shri. Vinod Tawde, Minister, Higher & Technical Education, Maharashtra keenly listening to the representatives of CDSL on the eve of MSBTE signing a MoU with CDSL.*



*A MoU inked in the presence of Hon. Minister of Higher & Technical Education, Shri. Vinod Tawde by Dr. Vinod Mohitkar, Director, MSBTE and Mr. Joydeep Dutta, Executive Director & Group CTO, CDSL on 11.05.2018 at Mantralaya, Mumbai.*

The Government of India has done this as an initiative towards bringing administrative and academic reforms through the use of technology for delivery of efficient services to all stakeholders. Maintaining academic awards in a digital depository delivers assistance to educational institutions, students and employers by allowing online access and retrieval; eliminate deceitful practices such as faking/forging of certificates and mark-sheets and facilitate validation. NAD is available online 24x7 access to the stakeholders.

MSBTE recently signed a MoU with CDSL Ventures Limited (CVL), the authority for

establishment and Operationalization of the National Academic Depository (NAD). Salient features of the depository are:

- Full online mode of operation
- Permits housing of academic awards in digital format, maintaining the legitimacy of access to the database and of the awards housed in the database.
- Allows Students to retrieve their housed academic awards at any point of time.
- Authorizes Employers and other persons (with prior approval of the concerned Student) to verify the authenticity of any academic award.
- Preserves the authenticity, integrity and confidentiality of the databases.

By doing so benefits reaped are:

Institutional mediation to strengthen Academic Award notification and dissemination.

NAD Stakeholders receive enhanced efficiency in services provided.

Bringing in transparency and elimination of undesirable practices such as corruption, manipulation of records, etc.

Elimination of fake/forged certificates.

### Hearty Welcome



*Shri. Saurabh Vijay*

MSBTE takes honor in welcoming Shri. Saurabh Vijay, Secretary, Higher & Technical Education Department, on assuming charge. Shri. Saurabh Vijay is an IAS officer of 1998 batch. He is B Tech. in Civil Engineering from IIT Delhi. Prior to this assignment he has held several important positions both in the Government of Maharashtra and Government of India. He worked as Assistant Collector in Kolhapur District, Chief Executive Officer Gadchiroli and Akola Zilha Parishad, Collector Washim, Managing Director MSSCL (MahaBeej) and Managing Director MAIDC. While on deputation to the Government of India, he worked as Director in the President's Secretariat and Adviser to the Executive Director, World Bank Washington D.C.

MSBTE looks forward to achieve further excellence under his stewardship and guidance.



*Hon. Shri. Vinod Tawde, Minister, Higher & Technical Education, Maharashtra at the MSBTE stall at a Career fair held at Borivli in June 2018. Also seen are Dr. Abhay Wagh Director, Technical Education, M.S., Dr. Vinod Mohitkar, Director, MSBTE, Mr. Pramod Naik, Jt. Director, Technical Education, Mr. Anand Mapuskar, Counsellor.*



### Inside.....

- Perspective Planning
- Success story of Diploma Holder
- Technobuzz
- MSBTE Trainings
- Career Fairs - Snippets

### Theme for the Current Issue

**Easy ways to Go Green, Now ! or Never ?**



## From Director's Desk...



Dear Readers,

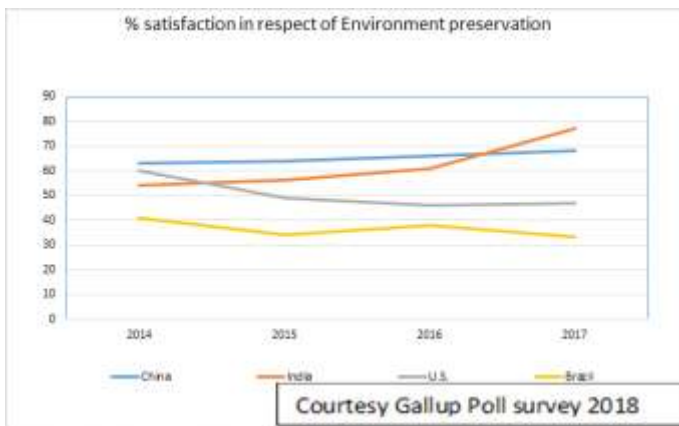
Ensuring Quality education to the stake holders has been a very challenging aspect in the present scenario. This has been the prime objective of MSBTE and to meet the challenge, the issue of quality needs to be addressed, debated taken forward in a systematic manner. It has been some time now since we last interacted. Our various themes of addressing matters through Newsletter

issues has brought us forth a very important topic of international apprehension. Ecological concerns have spread to the mainstream for one very good reason: Their immediate relevance to our quality of life has become impossible to ignore. The theme of this issue too has been in line with and is **“Easy ways to Go Green, Now! Or Never?”**

Nature has been till date the ultimate gift of God to humanity. We owe our very existence to Nature. The mother earth nurtures us, sustains us, and protects us by giving us food, water, air, land and natural resources like trees, plants, animals, rivers, lakes and other natural phenomena that we often take for granted. However, our Earth contains a fixed amount of resources.

Our brashness to such a compassionate Mother earth should be one of respect, admiration and thankfulness. A great saint once said that pollution outside is a reflection of pollution inside our minds. But unfortunately, instead of being grateful, man is the only being in creation that is abusing nature with rampant self-indulgence and selfishness by polluting the air, water and soil, extracting fossil fuels, destroying forests, and eliminating many species. These endless acts have led to natural disasters, including earthquakes, tsunamis, hurricanes, typhoons, droughts, forest fires and other catastrophes.

Today, a few developed countries place the health of the environment among their top trepidations as it's very much a bipartisan matter, a global subject and a human issue. In fact, if one drinks water, eats food and breathes air, it's considerably an 'individual' issue. But whether one went green years ago or is just beginning to develop an eco-conscience, it's for he or she to contemplate that the world around is changing.



In India, our Hon. Prime Minister has explicitly tied environmental protection efforts to the well-being of the country's most underprivileged residents. "Environmental degradation hurts the poor and vulnerable the most," he said in announcing the initiative to ban plastic.

Intense and alert measurement of environmental trends and progress provides a base for effective policymaking. The 2018 Environmental Performance Index (EPI) ranks 180 countries on 24 performance indicators across ten issue categories covering environmental health and ecosystem vigor. EPI are indicative of the need for national sustainability efforts on a number of facades, especially cleaning up air quality, protecting biodiversity, and reducing Green House Gas emissions. The 2018 EPI offers not only a portrait of where countries stand today but also echoes important trends in environmental performance at both the national and international levels. The global community is improving on a number of issues, such as health outcomes related to drinking water and sanitation and protection of marine ecosystems, while on other issues significant challenges yet continue to remain.

"Going green" means to understanding, decide, follow and practice lifestyles that are environment friendly thus protecting the vivacity of

nature and exuberance of the environment for the sustainability of life on earth. It also means backing towards maintaining the natural ecological equilibrium in the environment, and preserving the planet and its natural systems and assets. It also means taking steps, whether big or small, to minimize the harm you do to the environment (including the carbon footprints you leave behind), as a result of inhabiting this planet.

Why to Go Green?

A survey conducted to find the best reason for going green found that "making the planet livable for future generations" was the most chosen one. Creating a supportable earth for the coming generations gives us hope of a cleaner and optimistic future. But for many of us, better said than less done is the ecstatic mantra that we follow. We are responsible for the natural environs and glitches, which will become the encumbrance for our children. It's the actions that count not the preaching, as the time for it is past and we need to act before it's very late. Going green can reduce carbon emissions and create healthier public awareness. Green energy, or renewable energy, can be hauled out, produced, or expended without any significant negative impact to the environment. Green energy can be generated from solar, hydroelectric, landfill gas, biomass, and wind energy sources.

Jettisoning the annual global fossil fuel subsidies that account for billions, would reduce greenhouse gas emissions by as much as 6 per cent and would add to global gross domestic product. Developing renewable energy will help where we need it most. In practice, going green means embracing the five basic principles in our daily life viz.

- Reducing pollution
- Reducing consumption and waste
- Safeguarding resources
- Conserving energy
- Protecting the earth's ecological balance.

How can we protect our earth from the fallouts of our destructive activity? To start with, we should reduce pollution, as it the cause of several problems. We must stop throwing and spreading litter in the street, parks and forests. We should recycle wastes in order to save our invaluable natural recourses. We should preferably use public transport more often, because it does not release numerous harmful gases that cause greenhouse effect and global warming. Further, business magnates should use special filters at plants, factories and power stations so as to reduce the amount of poisonous emanations into the air and water. People should stop cutting down forests, since they are the bronchioles of our mother Earth. Furthermore, every forest is a dwelling for countless animals, birds and insects, who improve the equilibrium of our ecosystems.

Clear air. Clean water. Clean Earth. What's good for the planet is good for you! Here's how to make your life a little more eco-friendly.

- **Adopting green jobs** that produce renewable energy, prevent pollution or greenhouse gases, protect natural resources and improve energy efficiency. A green job is one that yields products or services that are environmentally friendly and conserve our valuable resources or help their establishments operate more efficiently.
  - ♦ Environmental engineers work on projects to design a new recycling plant or methods to reduce air and water pollution from an existing plant, study environmental impact of human activities on water, air and soil
  - ♦ Industrial engineers work on making industrial practices more efficient and driving out waste, making operations more sustainable
  - ♦ Geoscientists- finding sources of energy and also understanding how man's actions are impacting the global environment
  - ♦ Construction and building inspectors- ensuring that construction companies are adhering to the latest environmental regulations
  - ♦ Electricians- areas where upgrades are being made to make buildings, equipment and energy sources more environmentally friendly
  - ♦ Carpenters- to install materials made from recycled products or to make alterations to existing structures in order to fit in environmentally-friendly items such as solar panels
- **Green Energy Stimulates the Economy-solar energy** — is the largest renewable energy employer on the planet, Wind energy is also creating more new jobs than ever before. According to the International Panel on Climate Change, (Green energy sources like solar, wind, hydroelectric, and geothermal energy emit far less carbon dioxide than fossil fuels:





## Director's Desk Contd...

Coal emits 0.63-1.63 kgs of carbon dioxide equivalent per kilowatt-hour (CO<sub>2</sub>E/kWh)

Wind energy emits 0.01-0.018 CO<sub>2</sub>E/kWh (about 99% less than coal)

Solar energy emits 0.031-0.09 CO<sub>2</sub>E/kWh (about 94% less than coal)

Geothermal energy emits 0.045-0.09 CO<sub>2</sub>E/kWh (about 94% less than coal)

Hydroelectric energy emits 0.045-0.23 CO<sub>2</sub>E/kWh (about 86% less than coal)

### ➤ Changing Trashy Habits

- ◆ Properly recycling, composting and disposing of garbage protects the air we breathe and the water we drink and cultivating compost in home or garage.
- ◆ Electronics recycling-Giving used/dead computers and TVs to a large retailer that offers a recycling program

### ➤ Reducing pollution

- ◆ Driving generates air pollution and produces greenhouse gases that affect our weather patterns and vehicles also pollute the water with oil runoff
- ◆ Buying a fuel-efficient, low-pollution vehicle & shifting into eco-drive. Use of public transport, biking or walking to work
- ◆ Living in a place close to place of work thus reducing need to drive

### ➤ Bettering home instincts

- ◆ Passive-solar home design-use of insulated windows and strategic window coverings that maintain temperatures

- ◆ Use of Energy rated appliances at home and office
- ◆ Eating a diet rich in vegetables, fruits and whole grains to help reduce the toll on the land from meat production
- ◆ Adopting usage of organic products
- ◆ Replacing light bulbs with LED products
- ◆ Plant more trees around dwellings

### ➤ Agricultural Practices

- ◆ Use of natural waste products instead of chemical fertilizers
- ◆ Reduce usage of pesticides sprayers
- ◆ Use of solar based equipment for agricultural activities

Going Green can also have positive effects on personal health. Going Green can have commercial benefits for communities, businesses and households. On a business level, going green can help improve an organization's standing.

Finally, when we are in synchronization with Nature, we will tend to be happy and peaceful and make our fellow beings joyful. Each one of us can add our bit to make the environment clean and habitable, not only for ourselves, but also for the animals and green vegetation that share this wonderful planet with us.

Let's learn and practice to "Love all, serve all; Help ever, hurt never."

**Signing off with Best Wishes for a pollution free Festival season and ensuing term end examination.**

**Dr. Vinod Mohitkar**  
Director



## MSBTE News



### Doctorates



Mr. Yuvraj P. Chauhan

Mr. Yuvraj Premising Chauhan, Lecturer in Plastic and Polymer, Government Polytechnic, Miraj is awarded Ph.D. (Chemical engineering) by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon on 11/09/2018. His thesis title is "Studies on Development of Adsorbents from Coal Fly Ash for Removal of Toxicants from Industrial Waste Water".



Mr. Pankaj P. Kaware

Mr. Pankaj Pundalikrao Kaware, Librarian, Somayya Diploma in Engineering Chandrapur has been awarded Ph.D. from Rashtrasat Tukdoji Maharaj Nagpur University Nagpur. His topic of Research was "Collection Management of Information Resources of Polytechnic Libraries in Vidarbha Region -An analytical Studies."

### Retirement



Dr. S. G. Deshpande

Dr. S.G. Deshpande, Asst. Secretary (T), MSBTE retired from Government service on April 30, 2018. He joined the Technical Education department in 1986 and has served relentlessly in various capacities as Workshop Supdt, Lecturer, Asst. Secretary (Technical) at RBTE Nagpur and at MSBTE H.O. Mumbai. MSBTE wishes him a peaceful and healthy retired life.



Mrs. Shubhada Rane.

Mrs. S. S. Rane, Asst. Secretary (N.T.), MSBTE retired from Government service after a very long stint of 39 years. She has worked at the Directorate of Technical Education, Mumbai for 35 years and at MSBTE H.O. Mumbai for 4 years. MSBTE wishes her a peaceful and healthy retired life.

## MSBTE I Scheme Orientation Workshops

For the effective implementation of third and fourth semester 'I' Scheme diploma curriculum, MSBTE has decided to conduct orientation programmes through concerned RBTE throughout the state. Accordingly, workshops have been conducted and shall be an ongoing process for the effective implementation of the 'I' scheme.



MGM's Polytechnic organized the MSBTE I Scheme Orientation Workshop on 19th June 2018 for Aurangabad region.



Government Polytechnic Karad organized it with a theme of "Know-I". It was emphasized to comprehend the importance and role of "I" Industry, Institute, Interaction, Innovation, I-scheme curriculum and finally I-myself...in the effective implementation of the curriculum. Seen is Dr. Bandal, Principal of the institute addressing the participants.



MSBTE surges to mantle the onus of Perspective Plan preparation for Diploma Technical Education for the state

Technical Diploma Education is beholding a major transferal over the past three to five years. The number of students opting for diploma programmes is dwindling notwithstanding the technical manpower requirement in emerging areas. In many Polytechnics, the admissions have even declined beyond sustainable level and closure could be looming over their managements.

The economy of a State and that of a nation strongly depends on the quality of technical manpower that can develop new technologies by leveraging science so as to ease out the pressures on human resources. A paradigm shift is required both in the way technical education is imparted in diploma institutes as well as the way it is perceived in the society. Particularly, technical education needs to be steered away from writing examinations and towards hands on experience, developing products/services/systems, application of learnings to solve real life problems, projecting need based solutions for the future and identifying newer areas of their applications. Emerging technologies are making conformist approach to education redundant. Hence, the Polytechnics will have to reconsider the way technology courses are taught and accord top priority to the altering teaching learning process.

Maharashtra State Board of Technical Education (MSBTE) is in the process of preparing a Perspective Plan of Technical Education in the State with corresponding Action Plan. As a part of the exercise, a bottom up approach is being adopted, taking into account the aspirations of all stakeholders, i.e., students, parents, faculty, staff, alumni, industry and management of Polytechnics. Each of these stakeholders shall have a role to play in shaping the action plan for individual institute.

The survey tools have been enabled to assist the Polytechnic to formulate their own Perspective and Action Plans with both short term and long term goals. These will be collated to prepare MSBTE's Perspective Plan. The goals of the Polytechnics will be further considered to prepare the targets for MSBTE apart from those imposed by regulating bodies such as AICTE, MHRD, PCI, etc. The objective of MSBTE in this aspect is to bring awareness among all stakeholders about their aspirations, required corresponding efforts and deciding quantifiable targets as deliverables for ease of monitoring. Co-operation from industry and society has also been sought so as to arrive at a realistic scenario of the present and future of diploma technical education for bettering the same.

The exercise is expected to be completed by the Polytechnics in the very near future from the day of sensitization to promote changes in the technical education sector at the State and National levels among students, staff and faculty. The main stakeholders, i.e., students and faculty need to take part in this activity for their own progress in professional career. The responses to survey tools are received. Questionnaires were being made available for the same. The relevant information has been kept ready in order to facilitate the same.

The Perspective Plan and the corresponding Action Plan of each Polytechnic was asked to be made available on the Polytechnic

website by the first week of October 2018 with quantifiable key performance indices and timelines, basis the common template that shall was shared with all the institutes.

The Polytechnics shall also develop a monitoring mechanism for tracking the progress at their level and update the information regularly on the website. Please take cognizance of the fact that this is a long term plan and requires introspection by all concerned stakeholders. The KPIs shall be dynamic and may vary depending on extraneous factors over which the Polytechnic may not have any control. Nevertheless, Polytechnics need to plan their own progress and work towards it.



### Benefits of this exercise

This exercise will not only result in the preparation of a perspective plan, but will also lead to several other benefits that include:

- ◆ Make technical education more go-getting
- ◆ Sustainability of institutes under MSBTE through goal setting
- ◆ Better future planning through wide consultations
- ◆ Create a sense of benevolence among the stakeholders
- ◆ Adequately respond to the dynamism in the technical job market
- ◆ Overall Quality enhancement in Polytechnics

### Methodology and Sample Size

Data has been collected from all stakeholders that include institutions, industry, faculty, students and parents. Detailed information pertaining to the target sample size for respondents across each stakeholder along with the methodology of data collection is mentioned in the table below.

| Stakeholders       | Target Sample Size   | Methodology for Data Collection adopted  |
|--------------------|--|--|
| <b>Industry</b>    | 50 large scale Industries<br>For each institute in Taluka (3 small scale industries & 2 medium scale industries)<br>For each institute in the district (4 small scale industries and 3 medium scale industries)<br>For each institute in Mumbai, Pune, Kolhapur, Aurangabad, Amravati, Nasik and Nagpur (5 small scale industries, 4 medium scale industries and 1 large scale industry) | Online and one to one interviews. Institutes were required to consult industries in their area so as to complete the questionnaire online. |
| <b>Institution</b> | 100% institutions affiliated to MSBTE covered  | Online on the basis of the prescribed tool   |
| <b>Students</b>    | For existing students, 20% of enrolled intake in each institution per programme per year<br>For alumni, 10% of the enrolled intake per programme   | Online on the basis of the prescribed tool   |
| <b>Faculty</b>     | 100% faculty across all MSBTE institutions to be covered   | Online on the basis of the prescribed tool   |

Yes, green business is good business. But it's not just about making money. It's about being responsible. Tulsi Tant





# Perspective Plan for Diploma courses - Chronology of Activities Contd...

## Glimpses of the sensitization workshops



*Dr.V.G. Gaikar, Vice Chancellor, BATU Lonere addressing the sensitization workshop at MGM Polytechnic Aurangabad on 22nd Sep.2018. Also seen are Dr. Vinod Mohitkar, Director,MSBTE, and other dignitaries.*



*Dr. Vinod Mohitkar, Director, MSBTE taking the mantle upon himself at an industry consultation meet at VES Polytechnic, Mumbai on 16th Oct.2018.*



*Mr. V.R.Jadhav, Secretary,MSBTE sensitizing the participants at the Nasik meet held at Sandip Polytechnic on 15th Sep.2018.*



*Dr. B. N. Jagatap, Former Distinguished Scientist and Director, Chemistry Group, Bhabha Atomic Research Centre & Professor, IIT Mumbai addressing the sensitization workshop at Nasik.*



*A participant making his point of view known at the Mumbai meet held on 16th Oct 2018 at VES Polytechnic as Dr. Vinod Mohitkar, Director, MSBTE and others keenly listen.*



*Dr.V.G. Gaikar, Vice Chancellor, BATU Lonere, Dr. Vinod Mohitkar, Director, MSBTE, Mr. G.R. Thackeray and other dignitaries releasing a book comprising selected papers from MSBTE State level Technical Paper Presentation Competitions at the sensitization workshop held at G.H.Raisoni Polytechnic, Nagpur.*



*Dr.V.G. Gaikar, Vice Chancellor, BATU Lonere addressing the participants at the sensitization workshop held at Dr. D. Y. Patil Pratishthan's Y. B. Patil Polytechnic, Akurdi, Pune.*



*Dr.Vinod Mohitkar, Director, MSBTE interacting with the participants at the sensitization workshop held at Dr. D. Y. Patil Pratishthan's Y. B. Patil Polytechnic, Akurdi, Pune.*

The duly complete report in detail, shall be discussed and submitted to the Government for perusal and further guidance.

**Ms. P. S. Patil**

It seems everywhere you look people are taking about “going green”. So, the concept of going green or sustainable living is as well known already. In fact the act of completely “going green” and giving up on many indulgent luxuries takes a lot of courage and passion ,which unfortunately most of us are unwilling to go all out for.

Here, are a few ways how to “go green” in easy way without having to feel like you are giving up too much because awareness and small changes can make a big difference in the way we live and let live.

**1. Save energy to save money:**

Install LED, CFL bulb. Unplug appliance when not using them.

**2. Save water to save money:**

Take shorter showers to reduce water use.

Use solar power for heating water to save your energy bill.

**3. Less gas=more money (Better Health)**

Walk or bike to work.

**4. Skip the bottle water:**

Use a water filter to purify tap water instead of buying bottled water.

**5. Compost:**

Invest in your own backyard to turn food waste back into usable energy by composting.

**6. Green your personal care:**

Use organic product or no product at all.

In conclusion, people should change their lifestyle rapidly in order to stop deforestation, global warming, pollution and other problem. It does not take much time, just a little compassion and effort.

**Ms. P. S. Patil**

Lecturer, Rajarambapu Institute of Technology, Rajaramnagar

**Ms Ajita J. Desai**

Albert Einstein once said, “**Look deep into nature and you will understand everything better**”. Our planet is in trouble! Our earth’s health is falling and is getting weaker and weaker every minute, but we the selfish human beings don’t care at all. We all know “Health is Wealth “ but we forget that the most key element to make ourselves healthier is the “Environment” where we

live and protection of environment is important to breath clean air, to have good quality of drinking water and to be protected against the harmful effects of the things like waste and noise. Protecting our earth means protecting our health, wealth and family.

“Man **makes his own destiny and sows what he reaps** “is what we have done. We are producing disastrous world for ourselves in the name of development, modernization and industrialization. Our planet suffers from numerous problems such as pollution, global warming, deforestation, plastic and other non-biodegradable waste. These problems needs the solution, instead of making resolutions and promises we can start up by educating ourselves about the concept of going green because awareness leads towards action.

Implementing green & healthy practices at home, schools, colleges and offices can help reduce waste, conserve natural resources, improve both air and water quality, protect ecosystem and biodiversity. So be a part of the solution and not of the earth pollution. Here are some ways to make our Mother “Earth” Cleaner....Greener and Healthier.

**i) Reduce Consumption of Resources**

**ii) Reduce Waste Generation**

**iii) Reduce Energy Consumption**

**iv) Re use of Materials**

**v) Recycling of Materials**

**Ms Ajita Jairam Desai**

S.B.N.M. Polytechnic college, Aurangabad

**Mrs. Radhika Patwardhan**

O my city,  
Don’t u have some pity?  
All through the hustle and bustle,  
We consider it your beauty!

Industrialization is the hearty core,  
While Trees and green are just no more.  
There’s much environmental chaos & loss,  
But the brains have all gone for a toss!

Pollution is raging on,  
And all that we hear is the horn.  
While money is the new mate,  
Trees have much hate.  
No green, no green?  
Oh that’s so mean!

This is now the reality. Humankind has conveniently ignored how important our green friends are. The environment aids in production, protection as well as the aesthetic needs. A single full grown tree can provide you with all the basic necessities for your joy and satisfaction. Man considers his financial needs worthier than the overall development of the ecosystem.

The reduction of the forest cover on the land is leading us to a point of no return. This is a cumulative and cascading effect, pervading all aspects of biosphere. More the industrialization and urbanization, more the pollution and other harmful consequences. It is the need of the hour that we comprehend and implement the essential steps towards resolving the problem.

Environmental education has prompted us to realize the necessity to preserve the natural wealth and to do more. There are so many simple ways to save the environment. Few of them are Plant More Trees, Walk more, drive less , Maintain vehicles, Save water, Save Energy, Recycle and Reuse.

All these issues are much talked and written about. All we need to change our habits to inculcate these changes to save our mother earth! We must really gear up and think about how ruthless we are towards our planet! The nature has always been a kind giver and showered on us its immensely useful features. But we aren’t bothered. Everywhere in the huge spaces is a jungle of cement! Gradually, it is this that is shall pounce back and hit us hard! Nature has the power to reunite, and recreate. Let us befriend this beauty and make the pretty dreams come true!

**Mrs. Radhika Patwardhan,**

Lecturer, IT Dept.,

S.B.M. Polytechnic, Mumbai

**Ms. Sheetal Savalgi**

Man is facing the hard realities of nature in the present era. The environment has taken a serious beating. Pollution levels and ecological degradation have reached unexceptional levels. Human development has taken a huge toll. Global warming is increasing day by day. The threat is very real and very close. Just think, if it continues, what would we leave for the future generations?

There is no time to be lost. It is now or never.

We must unite, think & act so as not to repent later. All should come forward and make awareness among people about going green and save the earth. Government has been conducting Swachh Bharat Abhiyan (SBA) campaign, seminars and beneficiary policies. There are many forums that are stepping initiative for “Go Green”.

It should be remembered that we cannot reproduce any natural resources except conserve it. Being environmentally-friendly and eco- friendly is just good economics—in our home, college, offices and with the earth.

We must plant a garden in home, school, college .Switch off lights when you leave the room. Use reusable water bottle, bags. Use LED lights. Maintain the driving speed limit etc. Our efforts will be double when we get our kids involved, helping them understand going green.

Lastly, it is a need of time that we must take sincere efforts for saving our mother that is our Mother Earth.....Go Green...

**Ms. Sheetal C. Savalgi**

Lecturer, Shri Siddheshwar

Women’s Polytechnic, Solapur





## Faculty Speak contd... Easy ways to Go Green, Now ! or Never ?



**Mr. B. H. Chafekar**

Think eco-friendly is as like of hard work. Here our aim is to see projects through to completion in most of eco-friendly way as possible. Every business, that no matters as it belong to which industry, it has a responsibility towards the environment. This responsibility is for to beat and reduces the bad impact on the environment.

The standard for the "Environment-friendly Campus" is a LEED i.e. a framework for building that meets certain benchmarks for sustainability.

Students hold the key to the future of our environment, schools or colleges hold this key to students by education and awareness about the environment.

Many Education campuses are taking the pledge to make their campus more sustainable and to reduce their carbon footprints.

The green design gives the benefit of an environment as well as provides value to the owner because the buildings are much more efficient, that includes wastewater reuse, rooftop garden, solar energy system, education awareness etc. These details may like small changes at the initial stage of using them and gives benefits in the long run.

**Mr. B. H. Chafekar**

Lecturer, AISSM Society's Polytechnic, Pune



**Mrs. Jyuthika Chitre**

It seems everywhere you look; people are talking about "Going Green" So the concept of "green living" or "sustainable living" is a well-known practice already. Implementing green practices into your home or office can help reduce waste, conserve natural resources, and improve both air and water quality and protect the ecosystem and biodiversity. Going green means to peruse knowledge and practices that can lead to more environmentally friendly and ecologically responsible decision and lifestyles which can help to protect the environment and sustain its natural resources for current and future generations. Going green in our everyday lives has been a frenzy these days. From CFL bulbs to organic T-shirts. It seems everyone has some skill in the eco game. Your family, work and institution should be no different. Some of the easy do it yourself project that will not only save your money but also reduce your environmental footprint and have you playing your Eco sport in no time. As the cost of energy continues to rise there is a way to lower your electrical bills. Compact fluorescent light bulb LED, used up to 66% less energy than the conventional incandescent bulb and can last up to 5 years. Replacing the 5 most used bulbs in our home and workplace can not only benefit the environment but also benefit your pocket. Fix that leak - did you know that a dripping faucet or leaking toilet can waste up to 20 liters of water a day. Repairing this takes just a little time and a small investment for the part needed. The payback both in rupees and the environment is huge. Rainwater harvesting helps us to capture some of the water Mother Nature sent us during rain showers. Plant a tree and reduce a carbon footprint of your home. Natural cleaning products have come a long way. You now have a choice to use products that lessen their impact on environment. Many of these new cleaning items have a natural ingredient and use less water during cleaning to reduce fuel use. Reduce your usage. Small changes in the lifestyle can make a huge difference for an individual and for others too. Let the sunshine! Not only will it brighten your mood. It will keep you from flipping the switch. The rays of the sun can help to heat your home and the best part of this is it is absolutely free!

**Mrs. Jyuthika Chitre**

B.N.M college of Home Science, Mumbai



**Mr. Suyog S. Dhoot**

Greenery always makes a special feel in mind & is liked by all. Creating positive impact about Go Green concept at educational level is best way to achieve sustainable development of environment. If today's students understand the concept of Go Green then they can create awareness about greenery in future. Field visit to green areas and environmentally degraded areas will create impact on students mind and will create positive aspect to use environmental resources. Activity involvement of all stakeholders at Institutes can innovative ideas to come out and awareness created. Innovative idea to reach to Go Green concept can be obtained for particular problem and best solution can be found out. Carried out activities can be put on portal, for others to adopt. Now it's always chance for go green but if awareness among students not created in early stage then it is very hard to create positive impact in future days.

**Prof. Suyog Subhashchandra Dhoot**

Lecturer, IT Dept, K. K. Wagh Polytechnic, Nashik



**Mr. Lokawar V. L.**

First of all I would like to appreciate MSBTE for selecting such important topic for Newsletter i.e. easy ways to go green - now or never. I should mention here the definition of Go green "it means to pursue knowledge and practices that can lead to more environmentally friendly and ecologically responsible decisions and lifestyles which can help to **protect the environment**". We can also define go green as simply taking steps to conserve energy, **reduce pollution** and save money. Because of few major reasons I will focus more on **go green now**. If we don't now, then it will be impossible later.

Following are the few easy ways to go green.

- 1) Power down - turn off lights and other electronics when not in use.
- 2) Walk more - reduce your driving habits by which you can reduce pollution and improve health.
- 3) Save water - save water for future use.
- 4) Decrease meat consumption - save animals
- 5) Use energy efficient light bulbs - Use LED or CFL
- 6) Buy less - Only buy what you actually need.
- 7) Reusing - try reusing Water bottles, bags, clothes, paper, pen etc.
- 8) Recycle products that can be done so.

**Mr. Lokawar V. L.**

Lecturer, Mechanical Department MGM's Polytechnic Aurangabad



**Ms. Darshana Ghankute**

Easy way to go green- Now! Or Never? The theme itself makes us realize the beauty of our mother nature is getting destroyed by her own children (humans). Isn't it scary our mother nature is dying? But why are we getting scare or feeling sad for our nature because we are the one who is killing our nature. We have to take a step NOW otherwise it will be too late to save our mother nature and our future.

Our Government and some private organization is taking steps towards it but if each of us take a step together against the destruction of nature we can rebuilt our nature. There are so many to save our nature by reducing the wastage, by reusing and recycling and also by using low carbon emitting vehicles, by travelling using public vehicles instead of using private vehicles. If we all plant at least two trees we can turn our mother nature green again and make her look more beautiful.

Imagine our nature turning green again, imagine we breathe fresh air again, and imagine children playing again in nature leaving all the technologies back at home. Just by imagining our nature going green again makes us happy just think this imagination turns in to reality, how happy and healthy we would be?  
So WAKE UP and GO GREEN NOW!

**- Ms. Darshana Ghankute,**

Lecturer,

Saraswati Institute of Technology, Navi Mumbai, Kharghar.



## Easy ways to Go Green, Now ! or Never ? Faculty Speak Contd....



**Ms. Snehal S. Shinde**

Going green is the most demanding necessity for the better future of earth as well as all living organism. Now everybody knows that the earth is in trouble. Every day we see new stories about global warming, acid rain, oil spills, deforestation or nuclear waste etc. To overcome such hazards and to save our earth with our living organism we want to understand the meaning of going green and which are the easy ways to go green? Going green is popular phrases whose meaning is varying from one person to the next depending on the level and extent to which they wish to carry on a green lifestyle. But according to me going green means option for a sustainable and renewable way of living. A green lifestyle emphasizes on **reducing, reusing and recycling** whenever and wherever possible. We should follow the easy ways to go green that will help to reduce our environmental impact, save money and live a happier, healthier life. The first way is to prevent excess cut down on environmental harm, reuse the nylon bags instead of the plastic bags. Another ways are to avoid use of bike, and carpool instead of it use public transportation; take shorter showers try low – flow showerheads and use your energy efficient dishwashers which use the less water, try to unplug things like chargers, microwaves and computers when not in use or invest in “smart” surge protectors that disable power when items are not in use, go fully vegetarian, buy items second hand for reuse, invest in your own backyard compost and it turns food waste back into useable energy, borrow from libraries instead of buying personal books and movies, choose eco-friendly items for benefits and collect rainwater and use it to water your lawns and garden. If we start to implement the above all ways then we save our environment, our Nature, our world meanwhile we support to save our Earth. Also we save our health and savings. We will get the various benefits such as we can ensure Our Children Have Future Resources, reduce pollution, maintain peace, save money, reduce stress, and help the local economy. Instead of cultivating show plants such as money plant, we should do the plantation of variety of indigenous trees every year. At the end I would like to say – **Save a planet, save a tree in the end it will save you and me!**

**Ms. Snehal S. Shinde**  
Lecturer,

Adarsh Institute of Pharmacy (D.Pharm), Vita



**Mr. Vijay Bodake**

Yes it's NOW! for me. Today there is need to go green now only because for our future generation what we give them is dirty city, pollution. This the right time for taking right action and government had taken right decision ,but its our duty to start ourselves. The plastic ban is also supported by schools, and they have decided to discontinue the use of disposable plates, bowls and cutlery for serving snacks in the school. Therefore, they request you to send an empty tiffin box (of unbreakable material like steel or melamine).In our day to day life there are many ways to save energy and go green like Pay all of your bills online,This will not only save you time but will also help to reduce paper wastage,Unplug all of your electronics when they are not being used, Reduce the amount of junk mail that you receive, Go paperless. All bills have the option of being paid online, so take advantage of this option, Turn off lights in the home when they are not being used. This alone can cut energy costs greatly, Reduce the usage of packaged food items, Reuse scrap paper, Recycle old jars, use metallic steel bottle rather than plastic bottle. Let us all join hands in preserving and conserving our Mother Earth and its resources.

**Mr. Vijay Jagannath Bodake**  
HOD(Computer)  
K.V.N.Naik Polytechnic, Nasik



**Pradnya Rane**

Green living covers several different aspects of the green lifestyle. Green living can mean a personal green living space at home or in the workplace. It can also relate to green travel, ecological travel destinations, herbal and natural medication choices, recycling, urban gardening in development or it can relate to all of these things as a whole. Green living can also relate to sustainable and self-reliant living or an off grid lifestyle. In order to understand the green living lifestyle and to begin a green living lifestyle, you must first understand the various aspects of green living and how they may pertain to your particular lifestyle choices. There are several methods and techniques of green living that can be taken into consideration for individuals who have been practicing a green lifestyle or who are just entering a green lifestyle. These methods and techniques can be found in health and beauty, energy and power, transportation and green homes. Green homes, in fact, are one of the largest areas of various methods and techniques of green living. There are geothermal homes, homes that use only solar power or hydropower and there are homes such as Cob homes that utilize various aspects of green living to create a sustainable and self-reliant green environment. With the hundreds of green living concepts, techniques, methods, ways to go green and benefits of going green individuals may find the green lifestyle to be a bit overwhelming at first. Overall, or with the resources available and self educational options available in green living, the overwhelming concept will soon dissipate and open doors to why going green may be an optimal option for your lifestyle.

Now –a – days increase in industrialization and in population, a large number of flora has been cut down to construct homes and industries. This cutting down of forests affects the environment adversely.It is the responsibility of every individual to take care of the environment. While all this is going on, small and simple changes on our daily lives can go a long way in reducing our carbon impact on the environment. Small changes that can implemented into our daily life that take little to no time or effort and can actually save a lot of money in the process. Environment can be saved by recycling and reusing and using different options for different purposes. Thus every individual ought to go green and save environment.

**Pradnya Rane**  
Lecturer-Civil, Pillais HOC Polytechnic, Rasayani



**Mrs. Jyoti Sadhu**

The Go Green is a global environmental friendly initiative that trains all people in world to conserve natural resources for future generations and protect human health through environmental stewardship, for providing free integrated environment. What makes a “sustainable Environment””? In one respect, it means that the world will last and not become a heap of landfill waste in a generation or two and things in world are durable. On the other hand, it means that the world can keep operating without damaging the ecosystems that provide the world with water, energy and food. In some ways, “sustainability” has become so excessively used that the term may lose its gist and power to drive good resolutions. But when it comes to institutions, we know that humanity will benefit when we have healthy places to impart knowledge and a thirst for learning on to future generations, and because of that, it is imperative that our MSBTE – and all the wonderful things that happen in them – can be sustained.

**Mrs. Jyoti Sadhu, Lecturer,**  
Saraswati Institute of Technology, Navi Mumbai,

**Earth provides enough to satisfy every man's needs, but not every man's greed.**  
– Mahatma Gandhi





**Ms Sonali Karnataki**

“Think green - Go green “ a slogan strong enough to catch one’s attention but not powerful enough to keep oneself thinking. “We all are fighting an invisible enemy”- says Louis Fourie. Our planet Earth which was once vast and fecund has now become as dull as a dish water, almost lifeless. Do you know that around the world, atleast 25 areas are identified as bio-diversity hotspot which alone supports nearly 60% of the world’s plant, bird, mammal, reptile and amphibian species which is very high share of our planet’s endemic species. There was a time when we used to see a green belt but nowadays we get to see long belt of industries. Our ancestors inherited green world to us, what are we going to inherit? Now in order to go green, we first need to understand why we need to go green?

Clean water is the earth’s most precious resource, and, with the increasing effects of global climate change, the quantum of water availability could likely change in the near future. Being water conscious helps reduce strain on municipal treatment systems and ensures there’s enough to go around. By shifting away from bottled water, we can reduce global greenhouse gas emissions, the energy required to produce (petroleum-derived) plastic, and the volume of waste trucked to our landfills from empty bottles.

If u ask me, for me green is cycling than recycling. We all know that globalization is making everyone come closer and henceforth it becomes increasingly easy to see how the lives of every creature are closely interdependent or we can say synced up with one another. Various chemicals used in one place can affect people living on the other side of the world. The point is that every single thing we do everyday has an impact on our planet-it can either be in good ways or it can be in the worst ways. But the good thing is, as an individual we have the power to control most of our choices and therefore through this we can have the global impact. The rainforests are referred to as ‘the lungs of the Earth’. They are rich in vegetation that takes carbon dioxide out of the air, and releases oxygen back in. The bottom line is - it benefits everyone on the planet to help keep our wild spaces alive and growing.

Adapting a greener lifestyle doesn’t only mean preserving the plantation, it can also mean improving our health , improving the overall quality of life. We can buy local food thereby reducing the pollution caused by the transportation. Also, buying fresh food reduces packaging and energy used for processing. Even the smallest to the smallest change can be started from our homes itself. We can increase the use of repurposed and recycled materials thereby buying less stuff and second hand stuff helps to reduce the amount of landfills.” Nothing can be thrown away” . In fact recycling materials saves more energy compared to the energy used to create new products.

We can also contribute to power generation facilities like using energy generated from solar power for small appliances like for operating fans, charging up our phones etc. even these small changes helps in preserving our limited valuable resources. Anytime if we choose to walk or prefer public transportations we help slow down global warming. With the help of railways we can travel long distances trips which will help in reducing the consumption of fuels and pollution too. Even the clothes we wear can harm our environment. It involves large amount of materials and energy even large amount of pesticides are used to grow crops for textiles. The dyes used for coloring clothes has major impact on our ecosystem. By choosing eco friendly clothing we can reduce the impact of our wardrobe. In these ways going green will not only improve our lifestyle but also helps to strengthen our economy. It will help to widen the job opportunities too.

Studies show that 1.5 acres is the amount of rainforest lost every second to land development and deforestation with tremendous losses in habitat and bio diversity. If we don’t take any effective steps now it would be NEVER!! If we want a greener and healthier lifestyle we need to adopt few ways and bring the changes in our lifestyle by being loving and in abusive. Will this earth ever be happier or greener forever or never, that’s in our hand. **START IT FROM NOW OR NEVER!! Go green or you will scream.**

**Ms Sonali Karnataki**

T. Y. CO, VPM’s Polytechnic, Thane



**Ms. Apeksha Mehta**

Nowadays more and more people are thinking about the environmental issues and ecological condition of earth. Our planet suffers from dangerous problem which is harmful to our natural environment. The entire planet suffers from pollution, global warming etc. These problems are solved with intensive solution. It is very important for our environment. Why is it necessary for us to change. If we do not take steps to improve now then it will affect our present as well as future. A small tree will grow to it’s proper height in 10 to 15 years.

We are responsible for the natural environment and it’s problems. Many people do not care about the mother Earth during their lifetime. They do not bother about the future and aren’t satisfied as they are money oriented and attach materialistic values. They cut down forests, kill animals & birds. People open new plants and factories and power stations, which harm the natural environment. They are ready to live in unhealthy and polluted environment.

Ultimately they end up paying for treatment at hospital, because of taking in polluted air, food and water. We lose priceless natural resources, fresh air, water, forest, animals, birds and insects due to our carelessness. It is in our hands whether we want to live a healthy, green Lifestyle Now or Never?

**Ms. Apeksha Mehta,**

B.N.M college of Home Science, Mumbai



**Charmee Mehta**

The devastation at Fukushima, and the Tsunami in 2004, pollution of Ganges are grim reminders of the effect of neglecting the environment while achieving rapid development on technological front. Now the demon is around, it is out to devour the whole humanity. Cutting of trees due to the pressure of urbanization, the growing population and the craving for the rapid development have deprived us of green cover. People should take a step towards protecting it. Reuse, Reduce, Recycle! These three words can and will truly make a world of difference and help save the earth. Perhaps, if each individual contributes his/her bit! Our planet suffers from pollution, global warming, deforestation, extinction of biological species, etc due to excessive use of resources.

Multipurpose plastics inspire innovations that make life feel better. But it is non-biodegradable and takes aeons to decay. Ozone layer depletion is also one of the prime reasons which lead to global warming. In today’s ever-evolving world, industrial waste & E-waste has become a major concern as they contain hazardous substances. Deaths do to pollution are high. Air pollutants are mostly carcinogens thus increasing the chances of Cancer. Safe drinking water has been scarce. In plants, the air pollutants block the stomata that take in carbon dioxide, and hamper photosynthesis. The particulate matter that the animals inhale get accumulated in their tissues and damage their organs. These problems are of the utmost importance which can be overcome if all change their approach towards nature. In plain words, people should go green to save Earth. We come across radiation in various ways in our life by getting exposed to different kinds of screens like mobile, laptops and other electronic devices. But there are many side effects of radiation like small blood vessel damage leading to heart failure. Efforts are being made by many to make a difference, in their own greening campaigns, to save the Earth. We can work with our people and society and raise awareness about the environment. Public transportation and car pooling helps us to reduce air pollution. Minimizing e-waste and donating used electronic devices can be helpful. Introducing a subject like Environmental Science, can change their outlook towards nature. Alternative energy sources offer a way to power homes, vehicles or businesses without using fossil fuels thus reducing greenhouse gas emissions. Also, government should sponsor research on environmental issues pertaining to various regions. In today’s era, we should meet needs of the present without compromising the ability of future generations to meet their own needs. Sustainable development is not only a key for the survival of mankind but also for its future protection. **The future belongs to those who ‘think green’ and ‘go green’. ‘Go Green’, before it is too late! Because it’s now or never!** The survival of mankind depends on it.

**Charmee Jayesh Mehta**

IT Dept., SBM Polytechnic, Mumbai



As everyone knows Green is the new black. Because the world is facing a huge problem “ENVIRONMENTAL POLLUTION” every individual on this earth have to fight against this problem. Environmental pollution is one the greatest challenges that the world is facing today. It began since industrial revolution, increased day by day thus causing irreparable damage to the Earth.

**Mr. Gangesh Varma** Earth is harmed every time a tree gets cut down or car emits its fumes or water gets contaminated and many more such reasons. A whopping nine in 10 people on Earth breathe highly polluted air because of lack of greenery.

Proper awareness should be initiated regarding preserving the MOTHER NATURE. Media should take a proper stand and spread awareness. There should be open classroom programs for preserving the earth. NATURE, this is a gift from god to all humanity and yet still we destroy it, nature is a necessity to make our world look beautiful and spectacular and is also needed to grow all of our crops and life's. PRESERVATION OF NATURE this is the one of the greatest weapon to make green is the new black into the actual GREEN. Human being should think **GO GREEN OR I'LL SCREAM**

**Mr. Gangesh Varma,**  
Mech dept. Saraswati Institute of Technology,  
Navi Mumbai,



It's time we wake up to the realities of environment at harm and live in agreement with the nature. The environment breathes life into us. The life sustaining environment is gradually suffering degradation. The environment has taken a serious beating.

**Ms. Jain Labdhi S.** Pollution levels and ecological degradations have reached unprecedented levels. Human development has taken a huge toll. It won't be long before large parts of habitat would get submerged in ocean water as an impact of global warming. Going green is an effort to make the world a better place and make the earth a less dangerous place to live. Go green, be eco-friendly with environment. Adopt effective ventilation, become more aware of resources, practice conservation, plant trees, conserve water.

I often wonder how much of the climate change denial is simply rooted in the fear that we have deeply, truly messed things up this time. It takes a certain amount of emotional space and head space to care about something as abstract as the environment. The least we can do to ensure healthy world for future generations is waking up to the fact that the answer lies only in conservation of nature. And the **TIME IS NOW OR ELSE NEVER.**

**Ms. Jain Labdhi Sandip**  
S.Y.D.Pharm. Sitabai Thite College of Pharmacy (Poly.), Shirur



#### What makes our earth look beautiful?

The growing industries, the skyscraper buildings or the enormous malls?

The answer is no.....The beautiful green scenic nature is what makes our earth look beautiful.

But nowadays this beauty is lost somewhere and will surely vanish soon if not taken care of.

**Sanyukta Kamble** And that's the biggest mistake we are making today, in the race for technology and development we are forgetting the most essential part of our life the one which gives us life our nature. Its rightly said “*The proper use of science is not to conquer the nature but to live in it*”.

Therefore, the best way to fight for the right thing for our planet is by following the path of “**GO GREEN**”.

Start using cloth bag it will surely bring a positive change.

Segregating waste in different ways can be beneficial as the waste will be decomposed in their correct manner due to which the harmful chemicals with will be segregated differently and in safe manner.

Carpooling surely will preserve fuel for the future generation and use water in limits.

These small changes can benefit our future generation and protect our mother earth. Going green is the best way ahead.

“*Small deeds done are better than great deeds planned*”

**Sanyukta Rajendra Kamble**  
Information Technology Dept., K.K.Wagh Polytechnic, Nashik



Going green is a personal choice that is embraced by individuals to contribute towards the betterment of the planet and make this place even better place to live. Everywhere people are talking about going green and how it impacts our planet.

**Ms. Ekta Jain** While there are number of ways to go green, there are variety of reasons which are often forgotten by all of us. The reasons most importantly include supply and demand. We have a limited amount of resources available to fulfil our needs and as the population is increasing demand for the resources is also increasing which is absolutely greater than the supply. If we want that our future generations should enjoy the standard of living which people experienced before, this is the right time that we should take some serious action so that we need not face any difficulty like global warming whose adverse effects are being observed today. The reasons for which we need to go green also include making our planet earth a better place to live, to make ourselves healthier, to fulfil all our needs and many more.

All the credit of our luxurious life goes to the trees, as they give us the most important element for our survival and that is Oxygen without which we cannot live for some counts of seconds. Also, our basic needs for food, shelter and clothes are accomplished only by trees. Unknowingly we are cutting the trees in great numbers and indirectly putting our lives in danger.

There are plenty of ways through which we can make a huge impact on our environment while going green. The ways include planting more and more trees together, say no to plastic, decrease paper waste, choose cloth napkins instead of paper if possible, think before you print anything, donate books, save electricity, switch to renewable sources of energy like solar energy, wind energy etc., prefer public transport instead of private vehicles, adopt the 3Rs – Reduce, Reuse and Recycle, manage the non-degradable trash & spread awareness among people and encourage them to adopt mission of Go Green.

Instead of regretting then, it's time to take actions now.

**Ms. Ekta Yatish Jain,**  
SYIF, KK Wagh Polytechnic



Friends, go green generally means that ecofriendly environment around us go green means to get knowledge and practice that can lead to more an environment friendly and ecologically responsible decision and lifestyle adopted by society which can help us to protect the environment and sustain its natural resources for current and next generation.

Now a days many reasons are generated for go green drive. In which nature conservation is most important. Global warming, deforestation has also become reasons for go green camp. There are hard realities that face human being in 21st century. Global warming is very real and ongoing Our future generation also has rights of use of natural resources and watching of nature's beauty just as we have been doing.

Today, we all must get together to save our earth. Go green itself gives ways for saving an earth.

**G-** Generate less waste.

**R-** Recycle everything

**E-** Educate community for camp

**E-** Evaluate environment action

**N-** Nourish activities about green

We all can implement many things such as use of paper bags Saving paper, Walk more and less use of bikes, Recycling of things, Consume less water. We all need to update ourselves with green technology, news, government policies. After all its our future so we must have to think about it to go Green Ever.

**Miss. Bhuvaneshwari Patil**  
S.Y.D.Pharm  
RJSPM'S Inst. of Pharmacy Dudulgaon, Pune





### A Huge 'Archive' of Heat Hiding Under Earth's Arctic Ice



The frozen Arctic has been penetrated by warm water which could rise and elicit a new melting process in the heart of the earth's already shrunken ice cap of the north. The menace can pose a grave threat. Data from permanent probes mounted deep in the water after analysis shows that the water in the Canadian basin of the Arctic Ocean has its temperatures warmer courtesy the Beaufort Gyre which is the circular current that pulls the water of the South to the North. The trapping effect is the result of the Arctic Ocean's distinct layers of water.

Fresh water's on the top; and salty water's denser, so it's at the bottom," tell the scientists. Being saltier, these warm waters are held at depth — insulated by the layer of colder, fresh water above them. As the planet rapidly, unnaturally warmed due to climate change and the ice farther south melted, the researchers found, the more southern waters began absorbing sunlight which once should have been reflected back into space by white ice. And that extra energy made its way north under the ice, where it stayed.

This created a source of "archived" heat in the planet's far north, which Timmermans and her co-authors showed has increased steadily each year. The climate change not only threatens the Arctic through the direct melting of ice along the northern ice cap, but the extra heat now present in our planet presents a long-term threat independent of year-to-year shifts in weather patterns. In the years to come, from within the planet's remaining northern sea ice the heat will break through the insulating fresh water above it and eat it away.

### Tiny, Lens-Free Camera Could Hide in Clothes, Glasses



As per latest research, a tiny, paper-thin camera that has no lens could turn conventional photography on its head. The device, a square that measures just 0.04 inches by 0.05 inches (1 by 1.2 millimeters), has the potential to switch its aperture among wide angle, fish eye and zoom instantaneously. And because the device is so thin, just a few microns thick, it could be embedded anywhere in a watch or in a pair of eyeglasses or in fabric. It could even be designed to launch into space as a small package and then unfurl into very large, thin sheets that image the universe at resolutions never before possible. The proof-of-concept device is a flat sheet with an array of 64 light receivers that can be thought of as tiny antennas tuned to receive light waves, the researcher mentioned. Each receiver in the array is individually controlled by a computer program.

The light receivers can be manipulated in fractions of a second, to create an image of an object on the far right side of the view or on the far left or anywhere in between. And this can be done without pointing the device at the objects, which would be otherwise necessary with a camera. The device's ability to influence incoming light waves is so accurate and fast that, theoretically, it could capture hundreds of different kinds of images in any kind of light, including infrared, in a matter of seconds.

### Water supplies to be cleaned up by AI powered robot microscopes soon.

By 2025, the world is very likely to be under the grip of a severe water crisis. People all across the globe are very likely to have all kinds of problems with clean water in the future, and it's known fact that, there are micro-organisms in water. If we can get them to tell us what's happening that would be a really great way to understand any potential problems. The microscopic plankton behavior pattern can depict quantum levels of chemical pollution to temperature fluctuations. Robotic cameras powered by Artificial Intelligence can monitor the behavior minutely and the data can be analyzed to give instantaneous perceptions of factors affecting the quality of water in lakes, seas and oceans. The devices would be low-powered and may not contain lenses or focus mechanisms or other complicated mechanical parts, but simply track shadows and movements through light sensors.



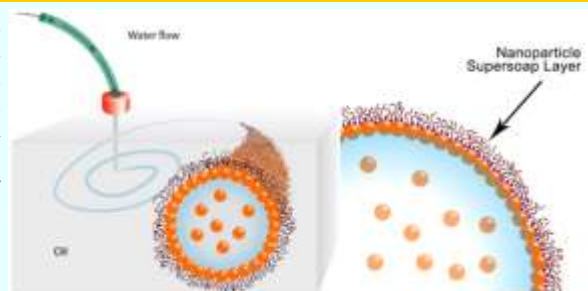
### Enthralling 'Self-Healing' Liquid Figurines Holding Shape

By manipulating the properties of water and oil, the researchers have created ghostly-looking sculptures. It's a known fact that during salad dressing, oil and water normally don't mix; their molecules are simply more attracted to their own kind than to each other — unless, of course, when a substance like mustard that can bring the sides together is used. However, a complex structure cannot be made but one can change the shape as long as it's gently done. When oil and water mix, the oil either slimes at the bottom or forms a slick on top. An emulsifier — like mustard or soap — stabilizes the two and allows oil (such as that in dirt on your hands) to mix with water (like that coming from the faucet on your sink).

The scientists created their own "supersoap." They added tiny gold nanoparticles to the water, and to the oil, they added a chemical that specializes in bonding to negatively charged material, like metal. The oil and water stayed separate, but the chemical called ligands and gold-laced water formed a glass-like barrier between the two liquids that allowed the water to take whatever shape the researchers wanted — and hold those forms for months at a time.

"They are self-healing," said a scientist at a lab along with the lead investigator. "If you puncture it with, say, a needle that makes a hole, that hole will be healed."

After mastering the basic science, the scientists used a modified 3D printer to create spirals, tree-like branches, lattices and even threads thinner than a human hair. Aside from being hypnotic to watch, these creations could facilitate interesting new technologies. Since the water is conductive, it could become a type of flexible liquid electrical cable. Or perhaps a chemical syringe that injects specific molecules into an ongoing liquid chemical reaction. Or even a liquid battery. The water conducts both ions and electrons, while oil can store energy — two necessary properties of electrical circuits. We may perhaps see all-liquid circuits in the near future.





**Mr. Rajesh Solanki**

Mr. Rajesh Solanki pursued Diploma in Instrumentation in the year 1992 from VPM's Polytechnic, Thane. He is son of a government employee who worked as teacher in Industrial Training Institute. After completing his Diploma he wanted to pursue his graduation in Engineering but he desired to do a business since his childhood. He has now reached a milestone in his business with enough capability & resources. He is married & is

having two sons.

He sought to gain practical experience in similar field but he was aware that to get experience one should keep high expectations in terms of remuneration. So, he joined a contracting firm which provided him opportunities to travel all over India and to gain practical experience. After gaining two & half years' experience, he quit the job and started his own business which he dreamt of. He was not having enough financial resources to start the business & hence partnered. But after 6 months the other partners withdrew their partnership because of non-receipt of orders. After this he had to vacate the office premises along with the available infrastructure. Like some of the highly successful small and medium sized enterprises and entrepreneurs, Miraj and its promoter, Mr. Rajesh Solanki. What made this venture which began only with a dream, burning passion, hard work as investments, that later had too many adversities to face, become successful was the determination of Mr. Solanki to stay in business and build commercial organization. Mr. Solanki learned the way of dealing with life in a hard and practical manner. The hardship taught him the value of life and made him think beyond the situation.

Every adversity opened an opportunity for Mr. Solanki, who knew only to be optimistic and worshiped his work without being snobbish. He set up his first office in a small residential room which was having only telephone facility. He has started his proprietary concern by name Miraj Instrumentation Services in the year 1995 with a small capital of Rs. 35000/- followed by the private limited company. Now Miraj is having his own Office Premises in Thane area.

After initial short period of 3 months, with less work & the extensive search for assignments had left him with only Rs. 5000/- from the primary capital. The breakthrough came, when he got his first order from Laxmi Organics, which later stepped its order size as a compliment to the successful completion of work and recognition of his capability in implementing instrumentation services. However, Miraj was not getting any big orders in the field of E&I Erection & Commissioning due to unavailability of past experience. Then Miraj got an opportunity in the year 1997. Reliance Industries was coming up with large Refinery in Jamnagar, however, Miraj could not receive any order from them due to less experience. However, during the execution Reliance had a setback due to Cyclone in Gujarat & because of this all contactors & their workmen left their work & were not ready to return to work. Miraj saw an opportunity in this situation & approached them as they were in need without seeing any qualification criteria they assigned Miraj with a big order. Though Mr. Solanki was knowing that this is a big challenge to carry out work in such condition however he still accepted it.

To complete this project Mr. Solanki suffered huge losses and got burden of loans with interests. In this critical situation his father Shri. Padmasingh Solanki helped him to raise the funds by taking loan from his provident fund account and also took loan from his friends. Completion of this project in such a challenging situation resulted in good credential for his company. He received recognitions from various EPC and other companies in India and also got opportunity to work for many other projects.

Mr. Solanki started Electrical installation work in the year 2006 & he has always been accepting challenging projects. His timely and proper execution opened more and more business opportunities for him. The similar situation arose when he accepted project in Sri Lanka during LTTE threats and in Libya during Civil war and successfully carried out the given assignments.

Now Miraj is one of the leading service provider for providing Electrical and Instrumentation Services across the Globe and has reputed clients like L&T, ONGC, BHEL, BPCL, IOCL, EIL etc.

Miraj has opened its joint venture in Saudi Arabia by name Miraj Arabia Company and also started a subsidiary company in Nigeria (Lagos) & Oman. The company has its presence and has successfully carried out its business in Bangladesh, Sri Lanka, Oman, Bahrain, UAE, Kuwait, Libya, Kenya, Qatar & Abu Dhabi. Miraj has employed more than 1000 employees which include highly qualified and trained team of professional engineers and managers & skilled field workers who works on different project sites in the country and Abroad.



Miraj is an ISO 9001:2015 & OHSAS 18001: 2007 certified company and has received various awards as follows:

- 'Udyogbharari Award' in the year 1999-2000 from GDK memorial trust & Loksatta for outstanding performance in small scale industries among the First-Generation Entrepreneurs.
- 'Udyogshree Award' in the year 2003 for outstanding performance in service industries.
- 'Star Performers' in Project Group from 2008-09 in the category of Small Enterprises- Engineering Services from EEPC India sponsored by Ministry of Commerce & Industry, Government of India.
- 'Regional Export Award' for outstanding export performance during the financial year 2011-12 by EEPC India.
- 'National Award' for Star Performer in the product group of Engineering Services Small Enterprise for the Year 2012-13 by EEPC India.
- 'Regional Export Award' for Star Performer in the product group of Engineering Services - Small Enterprise for the year 2013-14 by EEPC India.
- 'Top Performer Service Provider' award by Federation of Indian Export Organization (FIEO) for Western Region for the year 2014-15.
- 'National Award' for Star Performer Award for the year 2015-16 in the product group - Project exports, Small Enterprise Activities in the year 2015-16 by EEPC India.
- 'Western Regional Award' – Special Trophy for Excellence in Engineering Process Outsourcing Services in the category of Small Enterprises for the year 2014-15 by EEPC India.

The company looks to strengthen further to achieve greater successes. "Try not to become a man of success. Rather become a man of value."

**Rajesh Padmasing Solanki**

Managing Director

Miraj Instrumentation Services (I) Pvt. Ltd.

Mobile: +91 93222 66380 Email: mirajcmd@gmail.com

Theme of the Next issue

Is peer pressure harmful or beneficial to individuals ?





### Industry workshop



*E&TC Department of Fr.Agnel Polytechnic, Navi Mumbai organized a 3 day workshop on "Electronics Workshop & Amp; PCB Making" for its students from 13th to 15th June 2018*



*Students at a One day workshop on "PCB Making and Its Implementation" arranged in Electronics Dept of Government Polytechnic, Ahmednagar on 03.08.2018.*



*"Winners Circle" organized a workshop on "Teaching and Learning - Fun, participative and creative" for Polytechnic students on 14th July 2018, at V.P.M's Polytechnic Thane. Seen are the participant with the organizers.*

### MoU with Industry

· NCRD's Institute of Pharmacy with Apollo Hospitals, Navi Mumbai and MGM New Bombay Hospital, Vashi, Navi Mumbai  
NCRD's Institute of Pharmacy has signed MoUs with Apollo Hospitals, Navi Mumbai and MGM New Bombay Hospital, Vashi, Navi Mumbai. These MoUs will help the students admitted in our institute for visits, training and placement and in turn our institute will organize refresher courses and seminars for the benefit of hospital pharmacy department of the hospitals.



### Sandip Polytechnic and Klaipeda State University of Applied Sciences Lithuania

Sandip Polytechnic and Klaipeda State University of Applied Sciences Lithuania, Europe have signed a Memorandum of Understanding. Through this Memorandum of Understanding, the students have been very enthusiastically trained in the International Summer School Fellowship program organized in Klaipeda State University of Applied Sciences, Lithuania, Europe.

During the two weeks program from 20th June to 3rd July 2018, students learned project idea generation, project concept, 2D computer graphics, CAD, 3D project solutions, commercialization of project idea and smart bench projects in which solar rooftop containing WiFi, LED Display, USB, and other technologies were included.



*Students of Sandip Polytechnic, Nashik have completed a International Summer School Fellowship Program during 20/06/2018 to 03/07/2018 abroad in Lithuania.*

### · Fr. Agnel with Hyundai Motors

Agnel Polytechnic has signed an MOU with Hyundai Motors India to create a jointly supervised Automobile learning centre for its students towards strengthening knowledge and innovation between industry and institute. Agnel Polytechnic is generating skilled manpower required for the core industries. The strategy is in line with the government's vision of skill development through 'Pradhan Mantri Kaushal Vikas Yojana'. Hyundai has set up advanced laboratories in the premises for practical learning of automobile subjects in detail. They are also using latest training methods and bringing professionals to keep pace with latest technology in global market place. Hyundai has trained staff members. In 2017, 25 students were trained out of which 24 got absorbed by the industry. This training has helped the students to groom their talents by giving them theoretical and practical knowledge. This year 24 students of mechanical engg. were trained. Mr. Ganesh Gawande, Mr.Satish Eandole & Mr.Avinash Jage were the resource persons.



*Utkarsh Desarda*

### Higher studies

Utkarsh Desarda, a diploma pass out of MGM's Polytechnic, Aurangabad has been selected for Engineering Graduation course in Material science engineering at Arizona University, USA. The student receives a scholarship of \$10000. We wish him all the best for his future career.

**There's so much pollution in the air now that if it weren't for our lungs there'd be no place to put it all.**  
- Robert Orben





**Yoga Day Celebrations**



*Staff and students of Dr. J. J. Magdum Trust's, Anil Alias Pintu Magdum Memorial Pharmacy College, Dharangutti, Shirol, Kolhapur celebrating Yoga Day on 21st June.*



*Teachers of Bhivarabai Sawant College of Engineering and Research, Polytechnic, Pune celebrating Yoga Day on 21st June 2018.*

**Tree Plantation**



*Principal and staff of D.Y. Patil Polytechnic Nerul, Navi Mumbai planting saplings on 5th July 2018 near the service road close to the institute.*



*Tree plantation program at G.P. Nanded during June 2018*

**Faculty training program**



*Faculty Development Programme on "Student Mentoring System" by Institute of Holistic Healing India, Pune conducted on 14/05/2018 at AISSMS Polytechnic, Pune*



*Government Polytechnic Thane organized One week AICTE & ISTE Approved short term training program on "Research Methodology & Its Application" for teaching faculties during June 2018.*

**Excellence abroad**



*Mrs. Manjiri Gharat, of Prin. K. M. Kundnani Pharmacy Polytechnic, Ulhasnagar, the only speaker from India speaking at "Forbidden City International Pharmacist Forum" in Beijing on 11th May 2018.*

**NBA Accreditation**

- Shanti Education Society's A. G. Patil Polytechnic Institute, Solapur has been accredited by the National Board of Accreditation, New Delhi (NBA) for Civil engineering, Mechanical engineering, Computer engineering, Electronics and Telecommunication engineering programs for the period 1st July 2018 to 30th June 2021.
- Government Polytechnic Amravati has been accredited by the National Board of Accreditation, New Delhi (NBA) for Civil engineering and Plastic & Polymer engineering programs for the period ending June 2021.
- Shri Siddeshwar Women's Polytechnic has received an extension up to June 2019 of accreditation by the National Board of Accreditation, New Delhi (NBA) for all its 5 branches viz. Civil, Computer, Information technology, Electronics & Telecommunication, Electrical engineering.

The frog does not drink up the pond in which it lives. - Chinese Proverb

We never know the worth of water till the well is dry. - Thomas Fuller





# MSBTE Static Career Fairs - Snippets



*Dr. D.Y.Patil Polytechnic, Nerul, Navi Mumbai, organized an awareness meet on "Engineering through Polytechnic" for the Parents and engineering aspiring students on 17th June, 2018 at its premises.*



*Registration process for the career fair on at Manoharbhai Patel Pharmacy College Gondia.*



*School students attentively listening to the counselor at a career fair conducted by Nanasahab Mahadik Polytechnic Institute, Peth Naka, Tal - Walwa, Dist -Sangli*



*Students at the stalls arranged for dissemination of information during a career fair at Brahmdevdada Mane Polytechnic, Solapur.*



*A counselling session in progress at JSPM's Rajarshi Shahu College of Engineering (2nd shift),Tathawade, Pune.*



*Mr. Kolhe, Asst. Secretary, RBTE Pune counselling the students at the career fair held at Dnyanshree Institute of Engg. & Tech.,(2nd shift), Sonvadi-Gajvadi, Tal- Satara.*



*Dr. M. R. Chitlange, Dy. Secretary, RBTE, Pune at a stall during a career fair conducted by Sant Gajanan Maharaj Rural Polytechnic, Mahagaon, Tal. Gadhinglaj, Kolhapur.*



*A counselor guiding the students at a counselling session at a career fair held at P.R. Pote Polytechnic, Talegaon, Wardha*





## MSBTE Static Career Fairs - Snippets Contd...



Students registering and collecting pamphlets at a stall at the static career fair held at Dr. Rajesh Kambe Polytechnic, Murtizapur, Akola.



Students registering at the career fair conducted by Vishweshwarayya Abhyantriki Padvika Mahavidyalaya Almala Tq Ausa Dist Latur



Counselling session in progress at Renaissance Polytechnic, Datala, Chandrapur.



Dr. N.V.Sawant, Principal, Government Polytechnic Gadchiroli guiding the students at the career fair conducted at the institute.



### Newsletter Feedback



Mr. Ashish Vankudre

I would like to express my sincere thanks to MSBTE for providing a platform to all polytechnics to express their views and Technical Talent in different ways through Newsletter. I thankful to MSBTE and team for implementing the I Scheme Curriculum for improve the student quality and outcome based education which is beneficial for NBA accreditation of institute. MSBTE always motivate to Faculty, Staff Student and Institute by providing financial support through different activities like Faculty Training, Programs, Workshops, Laboratory Award, Project Competition, Paper Presentations etc. My best wishes for News Letters and MSBTE activities have always been a source of inspiration for many stakeholders for their knowledge improvement.

**Prof. Ashish A. Vankudre**  
HOD, Computer Technology,  
Adarsh Institute of Technology, Vita, Sangli



Mr. S. S. Sawale

I am a regular reader of this MSBTE Newsletter which is a good media for publishing information and events conducted by polytechnic institutes in Maharashtra State. Each newsletter volume contains different theme to the readers .Newsletter appreciates by displaying various academic and industrial achievements of teachers & staff, events photos in different diploma institutes. Due to this publication different ideas are received to conduct various programs for staff & students in Institute. It enhances the quality of diploma education in Maharashtra. I extend my best wishes for the next volume and look forward to various issues related to students in their overall development.

**Prof. S. S. Sawale,**  
Academic Dean, Padmbhushan Vasantdata Patil Instt. of Tech.  
Budhgaon Tal-Miraj, Sangli



Dr. B. M. Patil

First of all I would like to appreciate MSBTE for selecting such important topic for Newsletter i.e. Easy ways to go green – now or never? Easy ways to go green now through Organic waste Management. We have implemented Organic waste management concept in our organization since last year. Recycling the food and other organic waste is a fresh idea that can produce both economic and environmental savings. This is naturally efficient, budget-friendly disposal alternative form of Waste Management that can benefit a company, community and the environment.

Organic waste management, helps to save the environment from pollution. In Organic Waste management we can decompose all natural green waste as well as all types of food waste. In MGM's Campus we are using M.S. Drums in which different plants are growing with the help of all surrounding plant waste. Similarly at the hostels, we have constructed Decomposition tanks in which all food waste is decomposed. Within 15 days we get good quality natural fertilizer which is used for different Plants and Lawns. This Benefits to keep Campus Clean & Green.

**Dr. B. M. Patil,** Principal, MGM's Polytechnic, Aurangabad.

The responsibility of the authenticity of the information in this Newsletter lies with the author. Views expressed by the authors are solely theirs; they are neither the views of MSBTE nor are they endorsed by MSBTE. Queries, comments, feedback and information may be sent to newsletter@msbte.com Edited, Printed and Published by Dr. Vinod Mohitkar, Director, MSBTE, at MSBTE, Government Polytechnic Building, 49, Kherwadi, Bandra (E), Mumbai 400 051., Website : www.msbte.org.in