MSBTE

NEWSLETTER

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Theme for the Current Issue

"Role of technology in saving lives in Covid 19 pandemic"

Hon. Minister, Higher & Technical Education, Maharashtra State visit to MSBTE

Maharashtra State Board of Technical Education was excited and honoured to welcome Hon. Shri. Uday Samant, Minister, Higher & Technical Education Maharashtra State and President, Governing Council of MSBTE at it's head office on 28th Aug. 2020. Hon. Minister chaired a review meeting of the ongoing activities and projects of MSBTE.

The meeting was also attended by Dr.Abhay Wagh, Director Technical Education and Chairman Governing Board, Dr. Vinod Mohitkar, Director, MSBTE.

Hon. Shri. Uday Samant, Minister, Higher & Technical Education Maharashtra State and President, Governing Council of MSBTE being welcomed by Dr. Vinod Mohitkar, Director, MSBTE in the presence of Dr.Abhay Wagh, Director Technical Education,M.S.

Hon.Minister was welcomed and detailed information of MSBTE's activities during the lockdown and unlock period was given through a power point presentation. Hon. Minister was apprised of the ongoing construction activities at Pune. He also took a review of the status of ongoing works related to the state of the art Maharashtra State Faculty Development Academy to be set up at the premises. He asked for the academy to be housed with a latest advance technology based studio for delivery and recording of expert lectures, smart class rooms equipped with the smart technological advances for the benefit of the faculty trainees, state of the art computing facilities with latest softwares for the teachers to be trained for further delivery and transmission to the students in the state so as to make them global ready for placements and jobs.

Hon. Minister also expressed keenness in Skill development activities that MSBTE has undertaken. Highlighting the need of self-employment and entrepreneurship and job providing industry requirements he directed for promoting skill development of rural youth of the Kokan region by setting up a Centre of Excellence and skill development center in the premises of Government Polytechnic, Ratnagiri.

Hon. Shri.Uday Samant also asked for starting State Government approved new short term courses, 1 or 2 year skill courses benefiting the students to make them employment ready and also promote entrepreneurship in the young minds. He also directed for initiating steps in promoting online comprehensive teaching learning mechanisms for implementation at polytechnics that can ultimately help the student and teacher community in achieving better outputs & efficiencies respectively.

Expressing happiness over the works done by MSBTE, Hon. Minister directed for measures in promoting the same to all the corners of the state and at the national level for achieving further enhancements and reaching higher goals.

MSBTE Welcomes Hon. Principal Secretary, Higher & Technical Education, M. S.

Maharashtra State Board of Technical Education (MSBTE) extends a warm welcome to Hon. Shri O.P. Gupta, IAS Principal Secretary, Higher & Technical Education, M.S. Shri O.P. Gupta, IAS served as the Controller General of Patents, Designs and Trade Marks at Intellectual Property India, Mumbai, India. In the past, he has been associated with Maharashtra State Electricity Distribution Co. Ltd. as its Chairman and Managing Director.

Shri Gupta graduated with a degree in Mechanical Engineering and became an officer of the Indian Administrative Service (IAS) - 1992 batch. During his 28 years in administrative service, he has held posts including Inspector General of Registration & Controller of Stamps at Maharashtra, General Manager of Brihanmumbai Electricity

Hon. Shri. O.P. Gupta. IAS

Supply and Transport (BEST), Vice Chairman and Managing Director of Maharashtra State Road Transport Corporation (MSRTC), Collector of Amravati & Satara, and Chief Executive Officer of Akola Zilla Parishad. He has also been an avid golf player.

MSBTE looks forward to receive extensive guidance and support in the upliftment of the stake holders and society at large.

Dear Readers,

It has been a difficult and testing time for the entire human and animal race on this planet since the last 10 months. The Covid 19 virus catastrophe has dealt a severe blow to humans in terms of maintaining health & life. The invisible monster has struck fiercely and has catapulted every estimate, projection of economic, fiscal, environmental and technological development. The whole of the universe has been sick of the word 'Corona / Covid 19' and full of fright from within though it is projected not to be so.

This issue of our Newsletter focusses on the **"Role Of Technology In Saving Lives In Covid-19 Pandemic"** and in the present scenario, technology has a magnanimous societal role which it has played, is playing and shall continue to play in the near and far future too.

The Institute of Medicine (IOM), a component of the US National Academy of Sciences that works outside the framework of the Government, had almost twenty years back, called for development of IT infrastructure in the United States, mentioning it would have incredible potential to advance safety, efficiency and quality of healthcare. The institute had then suggested improvement in delivery of healthcare so as to influence IT in few expanses such as access to medical data base, computer-aided decision support systems, gathering, assorting and sharing of critical information, error minimisation and improved communication between doctors and patients.

Human mankind has been learning new techniques and means of confronting, controlling & managing or eradicating the epidemic diseases that kill innumerable lives & which the world has been facing at regular intervals. Use of developed technology has been on the forefront of all, but it alone cannot avert a pandemic onset. However, it can thwart the spread, warn the people, edify and empower the warriors and the layman of the situation thus reducing the effect of the pandemics. Today, with technologies like Artificial Intelligence, Machine Learning, high-speed internet, cloud, analytics, 4G/5G, smart phones, robotics etc. it has been easier and thinkable to test numerous innovative pandemic response methods.

The present situation with the global Covid 19 pandemic is disparate from any other calamity that manufacturing industries, companies, educational setups and organizations have ever seen in recent times. This has duty-bound administrators and the privileged people to come out of their conformist strategic approaches and rethink their responses to the massive challenges that the virus has put us all into. The role of technology in the fight against COVID19 has been observed to be crucial and innovation clearly at the forefront of this transformation. With advanced digital technologies at their disposal, the people at the helm have empowered themselves to act rather than react to such situations. The reaction though has been slow as everyone has been fighting an unknown, unseen and belligerent enemy that has created havoc all over.

Technology, in financier organizations too has a distinctly grave role in keeping efficiency high with low costs, which in turn empowers establishments to evade adverse impacts during crises such as the Covid-19 pandemic. There are some ways that both patient-facing organizations as well as payer organizations can streamline work using technology. Amidst such a deadly global health crisis, confirming provider credentials for accuracy and being up-to-date is even more crucial; with huge number of patients' lives at risk, having the best care

accessible is not only vital but obligatory. To house the recent increased demand in healthcare needs, many establishments have had to scale up their provider networks swiftly, which has been difficult to do with manual processes and overburdened overheads. By restructuring credentialing operations and leveraging technology, organizations have modified their grids quickly and amenably – warranting the efficacy to face gruesome situations.

With unbelievably available numerous advancements in technology in the healthcare system, it's significant to comprehend where exactly these progresses have a quantifiable impact. During the Corona pandemic, these impacts have become even more distinct, and it has shown what a drastic difference these technologies can make not only to an establishment's bottom line but to the worthiness of the health care given to their patients. For patrons, patient care has been enhanced by technologically enabled Electronically maintained records (EMR) systems like latest e-payment portals, revenue cycle management and patient communication tools etc. These upgradations or cloud-based tools allow benefactors to work more closely with patients. During such crisis, effective communication with patients regarding their care plan, as well as having immediate access to patient records, is vital to providing the best possible care & even in saving their lives.

A look at to how Technology helps in saving lives during Covid pandemic:

· **Reducing if not eliminating misinformation**

More panic and anxiety among the people is created and generated due to distortion of the number of diagnosed, fatalities, treatment options, vaccines, medicines, government policies, etc. The result can be catastrophic widespread confusion, panic buying, hoarding of essential commodities, inflation in prices, violence at hospitals, discrimination, conspiracy theories, and so on. Several groups are using the swerving technologies like mobile, AI, ML and more, to provide distinguishability on the outbreak of Covid 19.

· **Finding curative drugs and medicines**

The first thought to mind during a pandemic is the availability scenario a drug/ medicine to cure it or a vaccine to prevent it. The whole world is now anxious and desperate enough to find ways to slow the spread of the coronavirus and to find an effective line of treatment. Technology has become an enabler to make the progression faster. AI is playing important role in suggesting components of a vaccine by understanding viral protein structures, and helping medical researchers search piles of relevant research papers at an extraordinary pace. During the start of the year, a company introduced a cutting-edge system that predicts the 3D structure of a protein based on its genetic sequence. An University and National health center together used a popular biology method to create the first 3D atomic scale map of the spike protein which forms a part of the deadly virus that attributes to and infects the human cells.

· **Collective traceability and transparency by sharing input data**

During a pandemic, sending out clear messages to the general public is critical to make sure that they are informed and prompted to use suitable and appropriate precautions. Accurate information gathering and making it available to everybody through different modes such as radio, phone messages, TV, print media and social media can lead to a transparent scenario with people being informed about the right steps to be adopted. . In India, telecom operators like BSNL, MTNL, Jio, Airtel etc. are using the caller tunes to spread awareness about the pandemic and guidelines for safety.

· **Using facial recognition and big data to track people and patients**

In case of pandemic management, big data analytics aid in quickly identifying infected individuals, connect with them, track who they have come in contact with, and so on. In India, the Arogya Setu app launched by the Government of India, helps the administration to track affected people, warn those who came across them and means of securing help.

Facial recognition technologies along with data can accurately identify people even when masked. Such technologies do support in monitoring movement and tracking of people who are under home quarantine. It can also help in keeping a tab on people and ascertaining whether or not they have been in contact with an infected person. Infected people who break the rules and step out despite being quarantined can be identified using CCTV cameras along with facial recognition technologies can help in identifying.

· **Technology supported temperature monitoring**

The days of using a clinical thermometer to measure body temperatures are no more in use. Digitalised thermometers and wireless thermometer

guns and other similar infrared body temperature measuring devices are now the centre stage medical equipment mandatorily used everywhere at public places. These technologies assist in measuring the body temperature from a distance and turn out to be effective in indicating the individuals who might need further thorough check ups.

· **AI to the rescue in risk assessment and forecasting**

Artificial Intelligence has become a crucial and important most part of healthcare today. AI-based data analytics and predictive modelling are enabling medical professionals understand more of diseases and characters of the causers. With the use of AI, more accurate forecasting about disease spread, medication, treatment, etc., could be complete. A Canadian AI establishment cautioned of the threat several days before the Center for Disease Control and Prevention or the World Health Organization issued their public warnings. New understandings or tactics to address the COVID-19 outbreak has become easier for researchers to quickly find relevant studies using AI platforms.

AI-based risk assessment tools have been designed to provide precision amongst the misperception caused by the pandemic. These AI tools are helping in differentiating whether the patients have a common cold, flu, or COVID-19, what tests are essential and whether or not the individual needs to be tested for Covid. A multinational technology company, has built AI-based solutions to efficiently screen large number of people at a time and detect changes in their body temperature while they are on the move. This system can examine about 200 people per minute without disrupting their movement. These can be implemented in malls, bus stations, crowded market areas, hospitals, railway stations, airports, etc., to identify sick people quickly and quarantine them before they spread the virus.

· **Digital and contactless payments**

Online shopping has been now a days the need of the hour and hence is reinforced by robust logistics systems. Contactless digital payments, either in the form of cards or e-wallets, are the recommended payment methods to avoid the spread of COVID-19. Digital payments empower a layman too to adopt online purchases and payments for goods, services and even utility payments which are safe when in comparison to cash handling. The Government has motivated people in adopting digital payment on a large scale and demotivated visits to financial institutions for the purpose.

· **Use of auto-driven or remote controlled vehicles, drones and robots to ensure contact-less movement and deliveries**

When human contact is to be avoided, self-driving cars, drones, robots can be of immense help. Autonomous vehicles can be used to transport affected people to and from healthcare facilities with ease, without risking the lives of healthy people. Robots can be used for sterilizing hospitals and providing medicines to the patients affected with Covid. Drones can be used for delivery of food, tracking congregation of people and patients, carrying test kits and medicines to quarantine centres, thermal imaging to identify infected people, disinfectant spraying, tracking and identifying areas of disorderliness.

· **Work from home using Remote working technologies to support social distancing and maintain business continuity**

In order to ensure business continuity and to allow social distancing being practiced effectively during this pandemic that has threatened the business world, working from home has been a safest option. In such a scenario, technologies that enable secure access to data, enterprise applications, virtual meetings, cloud conferencing, and virtual / mixed / augmented reality are the vanguard leaders to ensure that the outputs are not impacted. Work from home is enabled by technologies that include virtual private networks (VPNs), cloud technology, voice over internet protocols (VoIPs), virtual meetings, work collaboration tools. However, information security, privacy and timely tech support are big issues that technologists are often faced with.

· **Advanced fabrics offer protection**

An Israeli startup company is working to manufacture face masks made from their anti-pathogen, anti-bacterial fabric that depends on metal-oxide nanoparticles to assist the healthcare systems.

· **Chatbots to share information**

Chatbots- are two-way interactions via text or voice input that are provided by AI systems. They are envisioned to provide with complex conversation maps and provide answers to patients by analysing their responses. Admittance to various systems so as to securely provide and acquire more complex information through chatbots are arranged for the healthcare systems. People can access free online health consultation services through chatbots. These have been important communication tools for service providers in the health sector to keep people aware of Covid. Chatbots have also been also useful for travellers to be updated on the latest travel procedures and changes.

· **Supercomputers working on a coronavirus vaccine**

Many cloud computing resources and supercomputers of major technical companies have volunteered in association with researchers to fast-track the development of a cure or vaccine for the virus. India is the world's largest manufacturer of vaccine. At least seven Indian companies are in the fray to produce a vaccine apart from China, Russia, USA,UK etc.

The Micro, Small & Medium Enterprises (MSME) are justly one of the worst-hit sectors by Covid-19 disease. Small businesses, have been struggling to operate, due to the continued pan-India lockdown and social distancing norms in place. Under such a situation, these companies do need to grip digital transformation and move their business online. They must also integrate technology in all crucial areas of function, such as sales & marketing, inventory administration, accounting, customer service, etc. to capitalize business performance, increase efficiency and optimise business growth.

By digitizing the entire process using technology, financial institutions can reduce the cumbersome loan application and sanction processes. Innovative tech-enabled solutions can help mechanize risk assessment of small businesses, which will immensely speed up the lending actions. Solutions like AI and ML can help fall away upon observations such as cash flow forecasts, digital payment behaviour, loan repayment behaviour for formal credit score borrowers. To assess the affluence of MSMEs better, the lenders also need to install advanced technologies like ML-based cash flow analysis, which can help distinguish cash flows pre and post Covid.

MSBTE has amidst the Covid pandemic adopted usage of technology in caring for the lives of it's stake holders.

· We have taken the class rooms to the door step of our students by using technology in conduct of online classes with ensuring students not leaving their homes to attend classes in person. Our lecturers at the institutes have put in enormous efforts in leveraging technology for preparing learning material for use during the online teaching learning process. Power point presentations, audio and video bytes for effective reach and understanding of topics by students were prepared and utilized by our teachers as a result of which the outcomes have been very encouraging.

· MSBTE has appropriated the use of video conferencing on a large scale involving the staff members of institutes, coordinating the online meetings for preparation of question banks, gathering information and views regarding technology and methodology to be adopted for various activities. Committees were set up that comprised IT experts, teachers and consultants to encounter the situation arisen out of the Covid lockdown for policy recommendation, planning for implementation procedures, actual implementation and solutions to glitches arising during implementation. Online video conferencing and other technological advances including security accomplishments and communication media helped in successfully achieving the goal.

· We have strictly adhered and complied to the SOP norms of the Government of India and the State Government as and when declared in ensuring the smooth conduct of work at our offices. The safety of our employees attending office has been our priority and thermal temperature checks apart from use of sanitizers and maintaining social distancing have been the order of the days.

· MSBTE has also successfully used technology in processing and declaring the results of lower years by effecting changes in software with pilot testing for correctness and taking care to maintain sanitized environment at the work place with minimum workforce.

· We have also successfully conducted the exams of final year students hitch free without having any student to physically attend the exam centre for writing the exams or for performing practicals at the labs, thus risking not the lives of the students and the teachers. Students appeared for the online examinations that were MCQ based. Oral exams(Viva voce) and practical exams were conducted through Audio-video call facilities available through internet facilities available on the mobile handsets with students. Those not in procession of mobiles and with poor or no internet facilities whose number was negligible were approached on phone or appeared at the institute taking due safety measures.

MSBTE shall continue using latest technology in the interest of the safety, security and betterment of it's stake holders at all times.

MSBTE wishes all it's stake holders healthy, safe and a pollution free new year.

(Dr.Vinod Mohitkar)
Director

Dr. M. B. Daigavane

The unprecedented genesis of the COVID-19 pandemic has brought vicissitudes in the lives of billions of people across the globe. People have been facing challenges to safeguard themselves from the pandemic since the beginning of the year 2020. Efforts are being made to survive from the attack of this deadly pandemic. In this scenario, technology has emerged as a warrior that is ceaselessly protecting us from the onset of the pandemic in many ways. Let us discuss these ways. Social media, being virtual communication platforms, are being deployed on a massive scale to keep people safe, productive and connected without breaching social distancing norms. Social media are also used to make people aware of the pandemic and the ways to stop its spread. 3D printing is another technology that has evolved as a shield to protect people from the pandemic. Countries like Spain, Italy and the USA have employed 3D printing technology for making masks, oxygen masks and ventilators which are saving lives of millions. Smartphone has no more remained as simply contacting and entertainment gadget. It has unlocked the door of a myriad of protection avenues. Various applications in smartphone cater to our needs such as health, education, finance, planning, management, training, travelling, contact tracing and many more which have immensely helped in protecting us. Doctors are a touch away from the people seeking medical advice. Expectant women can receive advice to remain healthy through Smartphones or cell phones. Though technology cannot prevent the onset of the pandemics, it can help prevent the spread, educate, warn, and empower those on the ground to be aware of the situation, and lessen the impact. The business giant, Amazon is testing a wearable device that lights up and beeps when warehouse workers get too close to each other. Artificial Intelligence (AI) is one of the most important technologies at our disposal. Today, discovery of vaccine is the topmost priority as it is indispensable for survival. AI is playing a key role in suggesting components of a vaccine by understanding viral protein structures, and helping medical researchers scour tens of heaps of relevant research papers at an unprecedented pace. AI-based risk assessment tools are helping in differentiating whether the patients have a common cold, flu, or COVID-19, whether or not the person needs to be tested. Moreover, AI based solutions have potential to screen large populations and detect a change in their body temperature while they are on the move.

In some countries, self-driving cars, drones and robots are employed for different purposes to avoid human contact. Robots are used for delivering grocery, cooking means, sterilizing hospitals and patrolling the streets. Drones are used for food deliveries, tracking population, carrying test kits and medicines to quarantine locations, thermal imaging to identify infected people and spraying disinfectant. Remote working technologies support social distancing and maintain business continuity. As this pandemic keeps threatening the business world, working from home ensures business continuity as well as facilitates social distancing. Remote working is a blessing that technology has bestowed on us. It is one the greatest solutions that helps us in social distancing. Today the greatest risk of worldwide catastrophe is COVID-19 pandemic that is more devastating and may kill many people. However, we have technology in our hand which has proved to be an invincible warrior that has potential to shield us from the pandemic.

Dr. Manojkumar B. Daigavane
Principal
Government Polytechnic, Bramhapuri

"The secret of change is to focus all of your energy, not on fighting the old, but on building the new."
Socrates

J. P. Vajubhai

Technology is a very important measure for saving lives in covid-19 pandemic. Without technology we can't even imagine the stopping of spreading and cure of covid-19. We have a example of Spanishflu, which was spread in 1918. If we compare technology with today and 1918, we all know that the technology was not developed compare to 2020. Technology was the only reason, that half of the population of Europe was died. Technology like Media, Social Media, internet have plays very important role in saving lives in covid 19 pandemic.

Social media plays very important role in initial stage of spreading the virus. When the virus was unknown for all of us every information including its symptoms and how its spread, this all vital information was spread by social media. How we can cure with this disease and how we can protect our selves by this disease was also a important information and was spreading with the help of social media.

Media by the medium of different news channels aware the people about the every thing about this disease. This helps the people cure and prevention from the disease. Main thing was lock down and social distancing which was very well organized by social media.

While the spreading of this pandemic the main thing which was hampered is the education of the students. But, by use of the technology(internet) all the activities like examination , study, lecture goes online and in many ways the study of the students is not disturbed. Without technology lots of future goes in dark.

So, technology is the way by using we can ease our life and it's a simple and excited way to reach our goal.

Jadav Pareshbhai Vajubhai
Lecturer
Dept Of Pharmacy, AFMC, Pune

Dr. R. P. Kshirsagar

Covid 19 has affected human life socially, economically worldwide. During this pandemic situation worst affects were observed on each and everyone. At the same time we have observed important and crucial role of technology in every sector during this Covid 19 pandemic. Technology has not only helped in medical field but also shown its major impact on education sector also. From children to aged people, rural to urban society all the individuals were dramatically and drastically adapted with various technologies during this pandemic.

We must really appreciate the role of government in implementing various schemes for society though the utilization of technology. Apps like Aarogya Setu, WHO info, Corona kavach, etc were playing major role in contact tracing and assessing the severity of disease conditions. Various digital instruments like Thermal scanning gun, Digital oxymeter etc has played potential role in Covid 19. During this lockdown period of pandemic government has communicated and encouraged common man with the help of various digital platforms.

During this pandemic along with health and medical field technology has played major role in education sector also. We must appreciate the role of AICTE, DTE & MSBTE for taking initiation in conducting various online programme like e-FDP, webinars, STTP, human value workshop etc for the betterment & development of students and faculty. This act has really boost morale of students and faculty members during this lockdown period. Also MSBTE has created various online platforms for e-learning of students and online exam software, which really helped students and faculty members to complete the task in effective way and without disturbing precautionary guidelines of Covid 19.

In this way I really feel that, technology has saved our life in all effective way during this lockdown period of Covid 19 pandemic.

Dr. Rahul P. Kshirsagar
Principal
Yashodeep Institute of pharmacy, Aurangabad.

MSBTE NEWSLETTER

Mr. Nitin S. Pote

We, human beings, have become mere marionettes in the hands of the corona virus as it has been threatening the entire globe since the advent of 2020. It has taken millions of lives in its attack. Endeavours are being undertaken to either discover a vaccine or at least control the spread of it. Every country harbours a wish to get free from the virus as early as possible. Against this background, technology has fortified our will to combat the disease and also strengthen the hope of survival. It has gifted us with so many devices and applications which are being employed to control the spread of the virus. We all are hopefully looking at the technology for emancipating the globe from the clutches of this intractable virus. Doctors are doing their duties to help COVID-19 patients to survive. Technologists on the other hand are making efforts to invent different tools and applications in order to alleviate the burden of the tirelessly working doctors and nurses. Here are some examples to illustrate innovative technologies.

Recently, a robot called 'medi-rover robot' has been developed by Tata Technologies in association with Government College of Engineering Chandrapur. It has been introduced into service at Chandrapur Civil hospital. This battery operated robot helps the hospital staff in handing food and medicines to the COVID-19 patients which minimize the direct physical contact with the patients. It can also be evolved further for collection of swab samples of suspected COVID-19 patients. Ventilators are indispensable for high risk COVID-19 patients and consequently they have huge demand in hospitals. However, due to shortage of ventilators, patients succumb to death. To overcome this problem, an Indian company has indigenously manufactured a low cost disposable ventilator which does not require electricity to function. Not only companies but also common people are joining hands by giving their contribution. In Madhya Pradesh, a 62 year old man has invented an automatic sanitisation machine. This machine functions without touching its parts. Apart from these equipments, various mobile apps have been developed to shield us from the disease. WHO Academy has developed a mobile learning app for health workers that enable them to expand their life-saving skills to battle COVID-19. It also provides them up-to-date knowledge of the virus. In such life-threatening circumstances, Information Communication Technology (ICT) has also played a key role in moving the wheels of economy. The ICT tools have proved to be effective as they equipped people with facility to do their work from home and thereby physical contact is avoided. Thus, technology has proved as an indomitable helping hand for mankind to fight with the disease. May it be developed to such an extent that the virus will be defeated and the mankind will be happy as before!

Mr. Nitin S. Pote
Lecturer in English
Government Polytechnic, Bramhapuri

K L Shravan Kumar

Surveillance in different parts of the country issued to stem the spread of the COVID-19.Thermal Scanners are used to know temperature of the effected persons. Using Smartphone location data, create a publicly available map that tracks the paths of COVID-19 patients. Usage of Arogyasetu app gives detail information on covid 19 cases and spread of disease in surrounding areas Usage of network such as smart phones, laptops also promote social distancing.

Technologies, such as facial recognition, at airports & railway stations can help to slow and manage the spread of COVID-19.Promotion of online platforms also help in reducing the risk of transmission. Knowing day to day news of various situations in over country by social media by smart phones, TV, etc., It has created demand for essential healthcare equipment, medicines along with the requirement for advance information technologies applications.

Technology also helps to collect information for healthcare systems for proper controlling and treating of COVID-19 patients.

K L Shravan Kumar
Lecturer, Dept of Pharmacy, AFMC Pune

Prof. M. V. Borse

Somethings can be bigger than we think. The COVID-19 is one of those biggest disaster, not a single human being thought this will damage the world this way. Well from human being point of view both technological development and mother nature are very essential to survive in today's global environment. COVID 19 is perfect example of nature's reaction over humans interfere to natural things. First patient of COVID 19 was found in china and it started growing on very huge scale. It was the technology which helped human being to create awareness worldwide and technology was the only thing which became big weapon to fight against COVID 19 whether it is concern with china or other countries. Technology helped human being to exchange knowledge so that doctors from worldwide can come together and fight together against this pandemic.

If we talk about India, considering the population of country it is not possible to control the COVID with available resources. In early days we came to know IIT's has started to develop ventilators in minimum possible manufacturing cost and can be easily manufactured, this is one of the small examples we technology has started to be biggest support in fight against COVID situation.

Here technology means all the things which were involved directly or indirectly in the battle against COVID 19, for example to fulfill the requirements of medical equipment, internet connectivity which allowed every human being to be in touch with everyone. Technology has played very important role in lockdown situation when whole world stopped people are able to work from home. whatever I have mentioned above, those things were direct influence of technology over COVID 19 situation. But if we think other way, technology was biggest support to every human being which helped everyone to survive in lockdown situation. I am mentioning this because if we go through data received, we will surely find out there are so many suicide cases in the world because of lockdown situation and people committed suicide because of frustration but this rate could have been more if technology was not there to entertain and provide quality time in pandemic situation. Mental calmness is very important in such situation were everyone got stuck and income source stopped.

Technology helped doctors to do research on finding medicine for COVID, it also helped is manufacturing of new medical equipment and supportive medicine as the count of patients were increasing at very fast speed. To identify the patients, even it gives you alert whether you are in contact with COVID patients or near to them and give quick treatment, technology has played significant role. Technology helped other sectors to run their business even in lockdown situation through video conferencing, software or other mode. Education were taking place by using online mode so that academic loss of students can be saved.

We can conclude even though the COVID 19 has killed many lives in whole world but the recovery rate of COVID patients is remarkable and this is only possible because of technological advancements.

Prof. M. V. Borse
Lecturer, ME Dept, Guru Gobind Singh Polytechnic, Nashik

"Ultimately, the greatest lesson that COVID-19 can teach humanity is that we are all in this together."
Kiran Mazumdar-Shaw

MSBTE NEWSLETTER

Prof. V. N. Pawar

"Fitness"- The most important word in day today life. Regular exercising will make your health fit.

Fitness trackers, wearables, smart watches, etc. known as '*Wearables'*, ranges in various forms from primary recording of activity levels like step counts to more advanced physical indicators as blood pressure, Heart beat, Oxygen Level, etc. Wearable technology is on the upswing in current market situation. Few of these devices are used by various users with the envisioned resolution of being monitored their self-health and well-being. However, in current pandemic the question has stand up as to whether these wearables can help in the fight against COVID-19

The role of wearables

These widespread health and fitness wearables are very operative at observing a range of available biological parameters including heart rate, blood pressure, body temperature, sleep, movement and even oxygen saturation levels. Most of these do not deliver any diagnosis, but when used in combination, they are capable of concluding a profile of a user's overall health. Depending on the proposed use of the wearable and its functionality, it may be considered a medical device or it may be placed as a lifestyle/fitness product also.

By this time, technology has proven a vital involvement of all wearables to the fight against COVID-19. Wearable manufacturers have initiated creating or adjusting their products so that they can help with detecting early signs of COVID-19. Few of them got success to develop an algorithms that have been specifically written to catch the early symptoms associated with the virus. Some wearables exploiting such software are now also allowed to continuously measure and interpret coughing activity, respiratory activity, etc. Recommendations from healthcare providers have specified that this ability to monitor patients and being alerted to changing conditions in real time will help clinicians in the fight against COVID-19.

Additionally, the role of wearables against COVID-19, not only relates to monitoring patients and detecting the early symptoms of the virus but also in shielding our healthcare professionals. It is hoped that patient-to-caretaker contact can be reduced by utilising wearables to continuously monitor suspected and confirmed cases of COVID-19 as the nature of virus is highly transmissible. It is obvious that wearables have the capability to provide a key tool in the battle against COVID-19.

The viewpoint of suddenly falling seriously ill with no early symptoms is one of the coronavirus's fearsome aspects. In recent, a family member died of Covid-19 after an enormously short illness that seemed to come out of nowhere. Only one symptom, shortness of breath, ever showed. Within days, the relative was dead.

The trouble many people have getting tested for SARS-CoV-2 and delays in getting test results make early warning of possible COVID-19 infections and data from wearable health and fitness devices shows potential for identifying who might have COVID-19.

Today's wearable device collect data about physical activity, heart rate, body temperature, sleep, etc. This data is classically used to support people track general well-being. The most common type of wearables are Smartwatches. There are various types of wearable devices such as smart wrist bands, finger rings, earbuds, etc. As a next version of "wearables", we can consider Smart clothing, shoes and eyeglasses. Popular brands include Fitbits, Apple Watches and Garmin watches.

Many studies are having algorithms under test that assess data from wearable devices to detect COVID-19. Till date Results to show that the concept is sound. However, wearables can be luxurious, expensive and sometimes challenging to use. Finding these issues is important to allow as many people as possible to benefit from them.

Detecting flu-like illness - As wearables are excellent tools for monitoring general health conditions, researchers began learning ways of using them to detect illness before the COVID-19 pandemic. For example, researchers used Fitbit data to classify people who could have an influenza-like illness from their latent heart rate and daily activity patterns.

Fitbit fitness tracker - Fitness trackers like this Fitbit monitor heart rate, activity, sleep quality, etc. Raised heart rate is a sign of infection. Most Fitbit models measure and record heart rate, so the devices can be used to find the duration of increased heart rate. It's not possible to

conclude if a smart device user has a particular illness from just all available data measures. But keeping watch and finding a sudden change in these conditions can make people to isolate themselves and get diagnostic tests, which can reduce the spread of communicable diseases like COVID-19.

Body temperature - Fever and stubborn cough are the most common symptoms of COVID-19. This has generated widespread screening using thermometers, most commonly contactless infrared thermometers. Although the ubiquity of thermometers, temperature sensors in wearables are uncommon. Because it is very complicated to get true body temperature from skin-based measurements. Skin temperature fluctuates depending on environmental conditions and stress levels, sweat evaporation can lower skin temperature, and temperature sensors occasionally have less-than-ideal contact with the skin. There are wearable temperature spots that communicate with smart devices and record temperature continuously. But body temperature isn't 100% prognostic of illness, and it is difficult to diagnose a particular infection, such as COVID-19, using body temperature alone. Nonetheless, a fever alert could lead to prior intervention.

Prof. Vishakha Nilesh Pawar
Lecturer – Computer Engineering, Guru Gobind Singh Polytechnic

Mr. A. Udmale

Pandemic - a word if misused can cause unreasonable fear, Psychological disorders, a misunderstanding which leads to unnecessary suffering and death. Now in year 2020 first pandemic caused due to corona virus but it can be controlled. All the countries are aware about the transmission, speed and Ways of transmission, prevention and this has been done by TECHNOLOGY. Technology providing- *number of cases, *situation of essential services as well as *recovery of community.

We are changing the world with technology. Today Computers, Smartphone's and internets are 24/7 hrs creative servants. In this pandemic mobiles, t.v.continuolsly providing scientific knowledge, required information, education sharing results from various labs, various organizations advices and social media the only source of awareness. Technology making people more sensitive, positive and a huge source of entertainment too.

Just because of technology government tracking people's location provided by phone which is useful to find out covid positive persons and making others aware.

CCTV also plays a important role to trace covid patients and quarantine people. Some countries using robots and drones to check patients temperature, to provide food and drugs .

We all know very well ventilators are life savers. The production of huge medicines on urgent basis is a need in this situation. various automatic lab tests are useful for detecting the infection of covid 19 in a short time.

Technology connects person with the world and preparing them for future. Earning and learning tool is based upon technology. It means technology is a "prescription "for covid 19 pandemic diseases. "There was a time when people felt technology was an another world, now people realise it is tool that we use in the world."

Really hats off to Technology it's a life saver in this pandemic situation. If we use it wisely. Hope it will finish pandemic as early as possible.

Mr. Akashdeep Udmale
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LSHGCT, Gahlot Institute of Pharmacy,
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Theme of the Next issue
"Should automobiles make the shift completely to electricity?"

"Role of technology in saving lives in Covid 19 pandemic"
Faculty Speak Contd...

MSBTE NEWSLETTER

Prashant Sarawade

We are all witness to the spread of COVID-19 pandemic and kind of situation it has created all over the world. To fight against this two important major fields are identified as (1) Outbreak response action as preventive measure (2) Disease treatment and surveillance system. In the first measure action, identification of affected person, contact tracing and their isolation at particular location is included. The second measure includes providing medical facility at its advance stage within less time. For saving life of people these two effective measures are interrelated and interdependent. To avoid major human contacting or surface touching it is deducted logic that such human contact should be avoided thus intervention of non-human agency becomes deciding factor in saving of life. The digital technology, artificial intelligence have proved beneficial for the effective implementation of preventive measure. The digital technology has been used for identifying crowd source of this pandemic. A huge data is required to be collected, identified, analysed and provided for specific decision making. In order to take quick decision, data management become necessary. This has been helped by using CONSORT- AI (Consolidate Standards of Reporting Trials – Artificial intelligence) and SPIRIT – AI (Standard Protocol Items: Recommendation for Interventional Trials - Artificial intelligence). These two data management tools have been used for various preventive activities which includes utilization of huge data.

In this preventive activity, a series of activities are conducted such as management of epidemiological data and epidemic intelligence, risk assessment, response planning, monitoring and evaluation, epidemic modelling, outbreak analysis, research and scientific writing, progress and discrimination of information product. For effective implementation each of these activities, capacity building and strengthening is essential and important. For this purpose five digital tools have been used by various countries such as Nigeria, south sudan, mozanbique, sierria. These five tools have been recognised and approved by WHO as follow: (1) EIOS (2) Toolkit with R template (3) Go.data (4) EWARS (5) Geographic information dash board. (1) EIOS (Epidemic intelligence for open sources) is used for monitoring, scanning, different online media, verifying different rumour source and controlling them. This tool is used in Africa to alert people.(2) Outbreak tool kit with R template is used for epidemiological analysis, case data collection, reporting, analysis and interpretation. This tool is used where availability of human resource is less and remote areas. It is used in South Africa. This R template has different digital platforms or tools used for different reasons and is very helpful in policy decision making. For example R-package, R- epidemic consortium used for electronic COVID 19 data collection, summarization, contact tracing making COVID 19 online data dictionary, actual risk assessment and providing resources for WHO. (3) Go.data digital tool kit is an integrated solution for management of data on epidemic cases, laboratory results, contact tracing anf daily follow up, facilitating management at contact training, providing virtual tracing for COVID -19. It is web based platform and utilized by many users. It has facility of data visualization. This toolkit has mobile applications too. It can be operated at different platforms like android and apple. (4) EWARS (Early warning alert response system) digital toolkit helps to ensure early detection of individuals infected by COVID-19. It is helpful in preparedness and operational quick readiness, diseased surveillance. It is used for integrated disease, surveillance and response activities in remote areas. It is used by south sudan, Cameroon to give alerts about tropical cyclones. Online geographic information system dash board digital tool is used for updating situation, decision making, updating clinical epidemiological and contextual information. It is used by 47 different countries. Use of such kind of digital techniques and AI is very much in demand for policy making and decision making.

This is how technology has played important role in preventive measures and decision making to save lives. In therapeutic measures actual medical treatment is focused which includes activities like disease identification, diagnosis, medication selection and administration of medication. To practice these measures technological assistance has been taken in which telemedication is used for identification and diagnosis. The identification of elderly people with other fatal diseases is equally important. For this purpose digital tool like mediorbis is used. Sometime digital covid -19 monitoring tool is used. Small tools like oximeter, thermal scanner, RTPCR testing kit are used. At more advanced level, ventilators are used. At this moment, reducing time factor and increasing accuracy is important thus intervention of nano technology becomes crucial. This is how the technological intervention has been playing significant role at different levels in this pandemic situation.

Prashant Sarawade
Faculty, G.P.Karad

Ms. R. N. Tirale

Today when I see around I found very different situation which I can't imagine even in a dream. Which makes me rethink about the progress of human being try to remember the days before six month...what we were thinking about our progress in science and technology many of us were thinking we have achieved a lot of things and now there is nothing which man can't do. But one micro virus has played the role of eye opener and made us to rethink. now some questions are arrived in every one's mind and those questions are ..did we do one way progress...and can we bring out the world from this calamity with the help of science and technology...unfortunately the answer of first question is affirmative in last few decades we have crossed lot of distance in the field of science and technology but particularly in communication and IT sector only we left many empty places while we were progressing and those empty places now pushed us into the tragedy of Corona virus...though covid 19 has pushed the humanity in trouble but it has created the opportunity to use science and technology more effectively in life saving field. now it is our duty to carry science and technology in a new direction .Many sectors like micro biology were devalued by us ..now the need of world is to find out relation between living things and micro particles. How can those particles of proteins affect us can we find out how many from them are harmful and how from them are useful for living things can we destroy harmful viruses before it emerging in atmosphere. This should be a new direction of our research still now we have used science and technology for making life luxurious for communicating. Entertaining and transferring the data but this calamity taught us the importance of life and made us to rearrange our priorities.

We have searched many cosmic rays which we are using successfully to good of humanity can we use those Ray's in concentrated manner to destroy the viruses like covid 19 ,so many questions are there now and we have to find out every one's answer because only science and technology has ability of saving human life so let's begin with new hope.

Ms. R. N. Tirale, Lecturer
Department of Electrical Engineering
V. B. Kolte Patil Eng. College, Malkapur

Mrs. A. P. Jadhav

In human history COVID-19 is the first pandemic. To keep people safe, productive and connected while being physically apart technology and social media are being used on a large scale. Indian government uses Collaborative Robots (Co-Bot) in the eastern state of Jharkhand. Also India's tech hub, using drones to spray disinfectants, survey areas, monitor containment zones and make public announcements in the municipal corporation of Bengaluru. The state governments are managing useful equipment which is useful for covid 19 infected patients like ventilators, as well as medical items, N95 masks and personal protective equipment kit (PPE). To assist patients with mild symptoms of COVID-19 tech companies of Spain were open-sourced designs for making masks and ventilators

To collect samples which are needed for COVID-19 testing, in the U.S Form labs was start printing 3D nasopharyngeal swabs. To assist patients with mild symptoms of COVID-19 tech companies of Spain were open-sourced designs for making masks and ventilators. China used drones which are equipped with thermal imaging and can quickly detect people who have a fever in large crowds. On railway stations or global pandemic area Chinese giant, Baidu has developed an AI-powered non-contact infrared sensor system to quickly detect a person suspected of a fever. Humans simply cannot match the scale and speed of AI machines

Hereby I would also like to appreciate and thanks to MSBTE for utilizing various technical tools during this pandemic situation for betterment & developments of students and faculty by conducting various online programme like e-FDP, seminars, online exam etc.

Mrs. Ashwini Prashant Jadhav
Lecturer
Yashodeep Institute Of Pharmacy, Aurangabad.

In this busy world, all are in the search of new technology to make their life quicker & comfortable, consuming less time. Technology has always been with us in every step of our life. it has not only saved lives but have also help in spreading awareness , to get entertainment and in many ways.

Covid 19 has made us dependable totally on technology. It has made we humans the slaves of this technology. Technology is now playing a vital role in this pandemic. Small children are using technology through virtual classes while adults are using it through their respective ways. Even doctors have started their consultancy via telehealth so as to access the healthcare services remotely and to avoid the spreading of the virus. Neither the theatres are open, nor do we have the source to roam around, so only thing to get entertained is via online source or by televisions. The craze of shopping has turned into online mode. Not only clothes but also groceries and medicines are now one click away from us. The robots are now occupying the space of the workers so as to prevent direct contact of humans and also to stabilize the economical conditions in every field. However, the social media is playing the very important role in spreading the awareness of this pandemic. Arogy setu , a new app has been invented to prevent and to note down the spread of virus. This epidemic has made all of us a true technosavy. During this time of sheer uncertainty and constant fear, our willingness to adapt technology has been our lifetime. But this time its for the good purpose to control the pandemic and simultaneously to keep our routine on.

Ms. Alisha S. Rane
Second Year D Pharm Yashwantrao Bhonsale
College of Pharmacy, Sawantwadi.

Ms. Alisha S. Rane

As we all are familiar with the word "Covid-19" i.e (Corona).All over scientists are taking a lots of efforts in making the Vaccine on Corona. As our Prime Minister Honourable Shri.Narendra Modi Ji soon announced Lockdown in India so as to avoid the increasing rate of Corona patients.But, lot's of problem arised in front of all Indians. Like, many people lost their jobs, many exams were cancelled, school & universities were closed, Employment from provincinal towns who were there in Mumbai lost their jobs on which they were feeding their childrens & family members. In this Covid-19 pandemic other problem also arised in front of India i.e "Nisarga Chakrivadal" (cyclone). In Alibaug which is there in Raigad district faced a big problem in this cyclone.Like,many house's were collapsed.But in all this situation Technology played a very important role in saving lives of so many people .When this Covid-19 pandemic started all were depressed that what will happen ahead, how we will survive. It is said that "If there is a will, there is a Way"We all are truly blessed to have a greatest technology which solved many problem of people. As it was mentioned above that problems of jobs , unemployment,school's and universities. Technology bring a way out of this. Jobs were turned to "Work from home" in which people started there work doing from home due to which they get their salary for work. Teaching turns into "Online Learning" for schools & universities due to which none of the student will remain uneducated even in the pandemic situation , which will lead to their bright future ahead. As there was a Cyclone, technology helped a lot due to which many people saved there lives. Many cities , states were alert & was shifted to the safe place away from the cyclone affecting area. Many question of people from provincial towns , unwmployment   were solved and brought in front through the medium of News . News also played a very important role in Covid-19 pandemic they gave's us all update's regarding the rate of Covid-19 situation.This is all possible just because of Technology. Truly technology played a very important role in saving lives in Covid-19 pandemic. As basic needs of human being are food,clothing and shelter but technology is now becoming the basic necessities.

We all are thankful to all the Engineers, Scientists, doctors, police, Govt., soldiers and all those who played a major role in this pandemic situation. Because of them we are safe.

Ashwini Jadhav
SYIT, Matoshri AAsarabai Polytechnic, Eklahare, Nashik

Ashwini Jadhav

I am a millennian and no one else could understand how technology has changed things around us, as far as I count myself as a common living human being and not sort of some scientist or analyzer etc, I am writing this article from a very "common people" point of view.

I still remember when my grandmother used to tell me stories about plague, how million of people died because of it. In my Hindi syllabus too there was story of Munshi Premchand how plague entered in village and how it just vanihsed it without leaving any traces.

Lokpriya Shukla

Still all that was in my subconcious mind untill 2020, everything just popped out when I came to know about Corona Virus and how it is spreading, it hit my head too when govt announced 21 days lockdown. Wherever all these things were going but I was aware of all the things about precautions, safegaurds etc.

When first outbreak of plague took place, people were unaware of it, it just cleared the 60% of total population in Europe, it hit harder than Thanos would ever do ! what was the reason ?Offcourse it was lack of knowledge, people did not know about sanitization, hygeine, how plague is killing them, social distancing etc, the only one who survived had better immunity than other, that's all. Imagine if those people had enough knowledge about the disease, they would have definitely reduced the damage.

So what is the difference, between then and now, definately we know the answer is "technology'', we cant deny the fact that, when virus was in China we knew its existence within a week, its incubation period, its type, its genetic sequence and all, how all that was possible ? I am sure it is because of technology. We can take example of ringtone before every call which tells us how stay safe from Corona virus.

So now lets talk about its vaccine, the vaccine is also under development, I am sure we will get it soon as the third trails are going on, so if we compare it to the later world we will get to know that TB vaccine took decades to develop, till then everyone was suffering and unfortunately many of them died. In case of Covid-19 we are expecting vaccine within a year of outbreak, so it itself glorifies the unexceptional thing we have i.e. "technology". It will not be wrong if we say technology brings us knowledge which is essential for human kind to exist in harmony and lead a happy healthy life.

Medical science has emerged as a landmark of technology, testing kit of Covid 19 is available in varius forms, like rapid kit test which only takes 30 minutes to give result, antibody kit, RT PCR etc. and many of new kits with more precision are under development.

Not only in medical science, technology is helping us in fighting this pandemic in variuos levels, for example media, social media, advertisement banners, people wearing symbolic T shirts etc. are the best examples to understand how technology has helped us to fight the Covid 19 pandemic.

Lokpriya Shukla, S.Y. D. Pharmacy, AFMC,PUNE

The corona virus disease (COVID-19) is an infectious disease caused by a new strain of corona virus. In human history COVID-19 is the first pandemic. Epidemic and pandemic have been treating the human race time again. SARs, H1N1, Ebola and more have shown their strong effect in past but each sub outbreak, we are learning new way of fighting and managing such unexpected disease that can potentially kill millions of people.

Ms. D. S. Dhumak

Technology cannot prevent the onset of pandemic; however, it can help to prevent the spread. Today with covering technologies like mobile, cloud analytics, robotic, 4G, 5G and high speed internet. It has become possible to test sever innovative apparatus to pandemic response. Telecom operators like Jio, BSNL, Airtel and more are using the caller tunes to awareness about the pandemic. Autonomous vehicle can be used to transport affected people to healthcare facility, without risking the lives of healthy people,

The oxymeter, wireless thermometer gun and other similar infrared body temperature measuring devices have become the most imp medical equipment that being uses it at railway station, hospital, shop or other public places. Different robot is used in covid 19 for cleaning and sterilizing area and also delivering medicine to patient. By this way technology is helping in Covid 19 pandemic.

Ms. Dipali Sopan Dhumak
D. Pharmacy IInd year,
Yashodeep Institute of pharmacy, Aurangabad.

"Role of technology in saving lives in Covid 19 pandemic"
Student Speak Contd....

Ms Ishika Bhawnani

Today we will see some aspects of how people came together using technology to fight This covid pandemic. With the challenge to covid-19 we have put these new technologies to the test.

During lockdown ,stage smart phones and internet were used mainly. Video calls were use to keep people together. They become essential for online classes virtual get-togethers workshops business meetings and many more things.

Sterilizing robots are new Technologies been used that we have never seen before .As robots aren't susceptible to the virus, they are used out for many tasks such as delivering food and medicines and cleaning and sanitizing. All this is done to reduce human to human contact. This robots are used to provide things to infected and Quarantine human in hospitals and hotels to Limit human interaction.

UVD robots from company Blue Ocean Robotics use ultraviolet light to kill viruses and bacteria the Robotics 10 to 15 minutes to disinfect a room.

Railways Now use vaporized hydrogen peroxide robots to disinfect their trains.

While this outbreak is something to take seriously it is not unbeatable humanity has preserved through difficult times many countries are working together to stop this pandemic .Scientists and researchers no longer have graphical boundaries .We can use this crisis as a lesson to learn how to better organised and supply chain global communication health management system and gain respect for essential in our society.

Ms Ishika Bhawnani
Dadasaheb Balpande College of Diploma in pharmacy,Besa Nagpur

Pranal N. Kapadni

As we all know the covid-19(corona virus) came from 'China' and spread all over the World. By seeing the statistical report, our country has been badly hit.. But many of work are our Government can't stop like "Education, IT company, Many of important meeting etc. They are working with the only help of "TECHNOLOGY".

Today all schools and colleges are closed then also all students can get education only because of "online meeting app" any student get accesses from anywhere THE TECHNOLOGY IS PLAYING VARY IMPORTANT ROLE IN THIS SITUATION. Many of the IT Companies are closed in this pandemic then also all employees are doing work from their home which we called "WORK FROM YOUR PLACE or WORK FROM HOME."

Our Government recently launched the application called "AAROGYA SETU APP" With the help of this App we can justify our nearest people and their health status with the help of Bluetooth technology this app work. we keep our self-safety from covid-19.

By the help of technology today we can do everything in this pandemic. Thanks a lot for building this technology we can fight with covid-19 and your fight will be successful.

Pranal Nitin Kapadni
SY IT, Matoshri Aasarabai Polytechnic, Eklahare Nashik

Ms. R. Deshmukh

"Covid-19 is the first pandemic in human history where technology and social media are used on massive scale to keep people safe, productive and connected while being physically apart. Distance learning, online entertainment, contact tracing applications, stock market, contact less online deliveries, robotics, dissemination of accurate information to access complete transparency of the entire scenario, fitness and health apps, technology based temperature monitoring, work from home are some of the options covid-19 has brought into picture. Lesson learnt from covid-19 pandemic has been to stay prepared well in advance any crisis at both individual and collective level. All we need to fight against this covid-19 pandemic is preparedness and advancement in technology is steadily progressing; it will undoubtedly continue how to grow exponentially."

Ms. Rutuja Deshmukh (S. Y. D. Pharmacy)
Konkan Gyanpeeth Rahul Dharkar College of Pharmacy
& R. I., Karjat-Raigad

Ganpat Singh

Technology and social media are widely used on a enormous scale to save human lives. Keep them safe, productive, and associated while being physically apart.

COVID-19 is the first pandemic in human history where technology and social media are being used on a massive scale to keep people safe, productive, and connected while being physically apart.

Technology has played major role in fighting the covid-19 beginning. It has saved many lives.

Technology-Based Temperature Monitoring:
Infrared and wireless thermometers have now become the most commonly used medical equipment at toll gates, entry and exit gates of offices, airports, shopping malls, hotels, railway stations, shops, hospitals, and other public places. These temperature monitoring technologies have assisted in measuring the body temperature of individuals from a distance; these temperature measuring devices have also been useful in identifying the individuals who might need further investigation.

Distance Learning:
According to a recent survey, around 191 countries have either implemented or announced the closure of schools and universities, which has directly impacted close to 1.57 billion students. Most of the educational institutions have started to offer their courses online to make sure education is not disrupted due to the pandemic. Technologies used in distant learning include augmented reality, 3D printing, virtual reality, and robot teachers enabled with artificial intelligence.

Contact Tracing Applications:
Contact tracing apps like Aarogya Setu have assisted in tracking the COVID19 spread. Technology has also helped in educating people about the entire situation and reminding them to take the necessary precautions. Telecom operators such as BSNL, Jio, Airtel, etc. have used caller tunes for spreading awareness about the pandemic.

Ganpat Singh
S.Y. D. Pharmacy, AFMC, Pune

Ms. M. M. Lasne

Outbreak of pandemics and epidemics has always posed a threat to the survival of human beings over the years. The year 2020 has brought a challenging pandemic – Covid-19 which has made human beings merely helpless. However, technology has offered us a helping hand to save our lives to a great extent. It has provided us with gadgets such as smartphone, oximeter, temperature gun etc. which are ceaselessly and extensively helping us in prevention of the spread of the pandemic. Various mobile applications have been designed to prevent the spread of the virus. Some of the apps help to find out the people who came in proximity with the infected person. Government of India has launched Arogya Setu app that warns the user when coming closer to a person who has symptoms similar to COVID-19. The virus causes decrease in oxygen level in the human body which leads to fatality. Oximeter is a device that helps to measure the oxygen level in a person's body so that the person with low oxygen level may be advised for physician's consultation and referred to further tests. Another device, Temperature Gun is a wireless device that helps to measure the temperature of a person from distance. This temperature gun and other similar infrared body temperature measuring devices have become the most important medical tools which are widely used at checkpoints, airports, railway stations etc. so as to halt the spread of the virus. Apart from these, face recognition technology is used worldwide to identify people even if they are masked. This technology helps to track the movement of the quarantined or infected person and avoid his contact with the non-infected people. CCTV cameras are employed to remotely monitor the infected patients. Artificial Intelligence (AI) helps in collection and analysis of huge data regarding the virus which can provide us with information helpful in finding panacea to the pandemic. Thus, technology has proved to be a boon to human beings in saving lives from Covid-19 pandemic.

Ms. Mansi Mohan Lasne
2nd Year Electrical
Government Polytechnic, Bramhapuri

MSBTE NEWSLETTER

Epidemics and pandemics have been frightening the social race time and again. SARS, H1N1, Ebola, and more have shown their teeth in the past, but with each such burst, we are learning innovative ways of fighting and managing such unexpected diseases that can potentially kill millions of people. Technology cannot prevent the beginning of the pandemics; however, it can help preclude the spread, warn, educate, warn, and authorize those on the pounded to be conscious of the state of affairs, and remarkably lessen the impact. Today, with congregating technologies like mobile, cloud, analytics, robotics, Artificial Intelligence, Machine Learning, 4G/5G, and high-speed internet, it has become possible to test several innovative approaches to pandemic response.

Online Webinars

Online webinars were the only place for conferencing and meetings. This ensures safety for both the speaker and the participants, since they don't need to travel to the seminar location. Easy to interchange information before, during, and after the session. The institute organized many event and informational webinars to help students involve in various activities during the pandemic Like webinars on Advanced IOT, Artificial Intelligence, Machine Learning and many more….!

Emergence of 4th industrial revolution technologies has played a monumental role in helping mitigate and manage through this pandemic. Mobile, wireless, high speed networks, virtual reality, and Internet of Things (IoT) technologies have enabled new ways for humans to connect, to work, and to access basic services, apart from helping efforts to identify treatments.

Transformations are always hard; this one is harder to do, and it has to start from the top. The current just accelerates digital transformation to where it's no longer a luxury but a necessity for survival and conquering this ever changing new landscape.

Today the greatest risk of worldwide catastrophe is pandemic, an enormously infectious virus that's more devastating and may kill many people. The clearness that we have extended through this current COVID-19 situation, we now comprehend that we were not geared up for this pandemic situation. The next pandemic is not a matter of "if it happens", but "when it happens", would we be prepared in advance against the pandemic at an individual and collective level.

Ms. Shreyasi Mohan Bagul
Third Year Computer Engineering
G. G. S. B. Polytechnic, Nashik

"Let's go invent tomorrow instead of worrying about what happened yesterday."– **Steve Jobs**
From artificial intelligence to sterilizing robots, to rapid development of new technologies being re-appropriated in ways which were never seen before. Usually, emerging technologies are helped back by infrastructure, financing and bureaucratic constraints with the challenge of COVID 19. We have put these new technologies to the test.

Ms. V. S. Mane

The current technologies which have really proved to be helpful for saving many lives throughout the world, amongst are:

1. Robots:
Obviously, the robots aren't contaminated to the virus so they are being deployed to carry out many tasks such as cleaning, sterilizing and also delivering food and medicines. This is all in an effort to reduce human-to-human contact. Catering robots have been sent to hospitals and hotels around the cities or states. The robots help to serve food to those infected or in quarantine, limiting human interaction. External Ventricular Drainage (EVD) robots uses Ultraviolet (UV) Lights to autonomously kill viruses before it infects to other humans. These robots use advance algorithms and special sensors to cover all surfaces with the right amount of virus killing light. Without data, users can see exactly which rooms are being cleared from which bacteria and viruses. Even the masks can be considered as slow technology but effective. Masks also reduce the potential spread of asymptomatic infection.

2. Geographic Information System(GIS):
The recent technology developed in India is Geographic Information System(GIS). This technology helps in understanding the spread and impact of the virus. It helps in identifying the risks to the community. By this technology we can map the location of all the infected people and bring them on the platform. To battle the spread of COVID 19, GIS can also track the movement of an infected person or where exactly the individual has been in past couple of days using the smartphone's GPS.

3. 3D Printer:
3D printing is a great example of what can happen when smart, technically oriented people come together in a time of need. Ventilators have become essential in the battle of COVID 19 but the help systems around the world were facing shortages. To address this problem Engineers around the world got collaborated by setting network communication platform. Here, they shared information about open-source designs manufacturing ventilators with 3D printers. Anyone with 3D printer can collaborate by printing the necessary respiratory components. The goal is to make them available to healthcare services.

4. ResApp:
ResApp is a smart phone based respiratory disease diagnostic test that uses machine learning algorithms to analyze the patient's cough sound, to treat diseases such as pneumonia and asthma.

5.Nextstrain:
It is a real-time tracking of pathogen evolution that provides data sequencing and visualizations showing how long the virus is evolving and if there are any possible mutations that can change the nature.

Humanity has perceived through difficult times. The way some countries are working together to stop this pandemic is uplifting to see. Scientists and researchers no longer have geographical boundaries and the world is starting to put all of the recent technology to a very good use. We as being a human can use this crisis as a lesson to learn how to better organize the supply chains, global communications and gain new respect for those essentials for our society.

Ms. Mane Shraddha Vaibhav
Computer Engineering, (Third Year)
A. G. Patil Polytechnic Institute, Solapur.

"Life doesn't get easier or more forgiving, we get stronger and more resilient." Steve Maraboli

"Role of technology in saving lives in Covid 19 pandemic"
Student Speak Contd....

Technology will not be able to avoid this pandemic it can assist in managing a crisis more effectively. We all known that covid-19 how badly impacted our lives that both personal and professional. Now to adopt technology has been our lifeline. Now educational institutions and schools have started to offer their courses online teaching that to make sure education is not disrupted due to pandemic. Online study is good but it cannot replace paper books keep book in my hand and read this other happiness and hold mobile in my hand read it cannot ne replace. Both have their advantage and disadvantage it cannot replace sound and scent of paper books. The robot technology are now being used to clean infected areas and for delivering food to quarantined individuals. In some countries remote controlled robots are being used for helping medical professionals. When we discuss about online learning it is flexible and independence at work but no direct contact with teachers we have to go for both online and offline study

Mr Aditya Karmore

Dadasaheb Balpande College of Diploma in Pharmacy,Besa Nagpur

Mr. A. Karmore

Technology has played an important role during Covid 19 pandemic, through technology all the people get to know that what's going all over the world.

During this pandemic where all the people were sitting at here homes in case of maintaining social distancing technology played an important role through social media, news channels, smart phones etc .where people gets new updates from all over the world and students can study at their homes by using smart phones and most of the employees and business man's can do their work at home on laptop, computers and tablets.

Due to various technology people can know about the number of Covid patients at local area or society, city and state etc. This happens through GPS system various apps like Aarogya Setu.

Technology is very helpful during pandemic times like all the treatment of the patients is done in hospitals and hospitals uses machines is nothing but all these is technology.

Through technology various safety departments can view how the public is following the rules of maintaining social distancing and wearing masks like cctv at the traffic signals and various places.

Technology plays a major role for the studies during this pandemic, although students attend online lectures on laptops, smart phones, and computers in case it does not affect their studies.

For checking if the person if covid positive or negative various machines are uses at airports, shopping malls, banks, markets, showrooms, offices and in various places again these is technology. It doesn't end here because technology plays a major role during these hard times (COVID 19 PANDEMIC)

Ms.Rampure Sumaida,

S. Y. Computer Department, Trinity Polytechnic, Pune

Ms. R. Sumaida

Corona virus has emerged as the biggest pandemic in our lives. Who has changed the lives of all of us. In this era of technologies, technology has contributed a lot to saving our lives in this pandemic; Whether it is in creating the masks,whether in the manufacture of excessive amounts of gloves, Hand washes and sanitizers. They are fully contributing to the importance of technologies.

In all this, using technology, people were saved from the COVID-19 pandemic and their lives have been saved. Along with this, the biggest contribution of technology has been in removing unemployment. The work from home by using laptops, personal computers and mobiles kept their employment intact and the lives and routines of people could be maintained.Due to the use of technology, COVID-19 did not have much impact in the lives of people. Today in our lives, online education and classes are helping in studies, that technology has make possible. The technology that has been used in COVID-19 pandemic is that of a

Bittukumar Jha

Nowadays in this era of COVID 19 technology plays a vital in saying lives but technology will not be able to avoid the outset of COVID 19 pandemic; though it can assist in managing all the crisis effectively.

It is the truth that COVID 19 had a serious impact on our lives. It can be our personal life or professional lives. And now we willing to adopt technology had became our lifeline. There are tremendous examples by which shows the role of technology in saving lives of COVID 19 pandemic:- 1) Robotics :- The count of COVID 19 cases are increasing rapidly day by day. The patient needs medical attention in putting extraordinary pressure on health care professional across the world. To supply food deliveries, tracking population, transporting test kits, medical delivery to quarantine areas drones are been used. Even for such works in many countries remote controlled robots are used. This robotics helps in saving lives in the terms of maintaining social distancing.

2) Temperatures monitoring: - The temperature monitoring technologies are assisted in measuring the body temperature from a distance. These are infrared and wire thermometer's most commonly used medical equipment in this COVID 19 pandemic. We can see these equipment in our day to day life. At railway stations, airports, toll gates, entry and exist gates of office, hospitals, shops, etc. So this technology helps in measuring body temperature by following all the protocols in COVID 19.

3) Work from home: - In saving life as well as jobs of workers technology play's a very important role. As we can observe all the business works even educational hubs are dealing with this work from home concept. It is done by using all the digital platforms like computers, tablet, laptops, mobile phones and many other applications. Which will definitely save lives of COVID 19 pandemics.

4) Distance learning :- As a student I feel so safe because of distance learning. Around 191countries have implemented the closure of schools and universities. So everyone had adopted online education. In this technologies used like virtual reality, artificial intelligence enabled with robot teacher's.

Ms. Khushi Uttam Kumbhar

SY EE, CSMSS college of polytechnic, Aurangabad.

Ms. K. U. Kumbhar

Technology has played major role in fighting the covid-19 from beginning. It has saved many lives. Today our every action needs use of technology. As the new virus outburst in the world we need to know its basic history, its growth, its effects on body and its behaviour outside the body. For this we use technology, did research on it and found about its life cycle. This information helps us to take various preventive measures like hand sanitation, social distancing and use of face mask. It saves many lives first.

Then the introduction of testing kit was also result of today's technology. By doing test we succeed to save many lives as we were able to separate the infected person.

Then people who got suffered require various medicines, oxygen and ventilator & Covid warrior require protective equipment. This all was fulfilled by making best use of technology by various companies & manufacturing plants. This gives life to most of people who suffered from covid-19.

Now the technology is being utilized to produce vaccine against this disease. The vaccine production requires advance technology & sensitive procedures. If it got success again this is going to save life of million people.

Vikram Kumar

D-Pharma 2nd Year, AFMC, Pune

Vikram Kumar

ventilator, which is working like a life-saving person. In our country, a lot of lives can be saved due to ventilators.

Through an app like Arogya Setu, positive people and people in their contact can be traced which is protecting many people from COVID-19.

Thus technology gives a very important contribution in our life, without it, life seems incomplete. Technology has saved a lot of people's lives from COVID-19 pandemic.

Bittukumar Jha

2nd Year D. Pharmacy AFMC,pune

Mr. Pradip Anpat

I founded Anpat Engineering works in 2012. The journey was started with providing solutions to manufacturing of small components by using various machines like Lathe Machine, Drilling Machine, Welding Machine and various other small machine tools. Now a days we provide components to various customers according to their requirements. We have maintained growth and profitability, without needing outside capital.

I grew up in a very modest middle-class family in a small village Mahud in Solapur District. I was born on 29 June 1987. My father is a farmer and mother is a housewife. I have taken my primary education in Z.P. Primary school Mahud. Then I went to Shri Shivaji Vidyalaya Mahud for my secondary education.

I did well at school and I obtained my Diploma in Mechanical Engineering from SVERI's College of Engineering (Polytechnic) Pandharpur in 2011.

After completion of my diploma I was having various options like to take admission for the degree or to join in any industry, but I was dissatisfied with available options and decided to start own business. So that I started to study the market and available conditions for starting a new business. And then I decided to purchase the Welding machine and to start a small workshop. The experiment turned into success. And then I thought to bring it out commercially in the market. I started from scratch with an investment of about 10 lac and then purchased a lathe and drilling machine. This investment had been arranged with the help of loan from Ratanchand Shah Sahakari Bank Ltd Pandharpur and by taking gold loan. To support this workshop financially, I purchased earthmoving equipment's and started to take the contracts. Now we are providing various components like blasting compressor, bushes, shafts etc. to no of customers from Solapur and from outside of Solapur according to their requirement.

In the initial stage I faced many problems like availability of labours, payment to them. The major problem was load shedding of electricity in the village. To overcome this problem of electricity we had completed our work in night shifts. Now our team for Anpat Engineering works is of 17 persons under my leadership. In which 2 persons are ITI Machinist holder. The proud thing for us is 8 persons from our workshop are now working at other places because of our experience letter.

Future Plan

In the future my plan is to increase the no. of customers from outside the district and also develop the workshop by advanced machine tools.

Advice for them who wants to be an entrepreneur.

Do not ever compromise on quality. Never lose your self-confidence. Believe in yourself and the product you are making. Always stick to what you know. When you employ people, you should know what you ask them.

Mr. Pradip Anpat
Anpat Engineering works,
Solapur.

Mr. Dhanaji Kakade

When I passed 10th in 2007, I was confused about my career options as there was nobody in my family who could guide me in this regard. However, being a son of farmer I wanted to do something for the betterment of farmers as I had seen my parents toiling hard in farm. Despite, their hard work, they could not yield satisfactory agricultural products as they were farming traditionally. I saw it was difficult for farmers to make both the ends meet with the earning they were getting from traditional farming. After 10th I decided to take admission to diploma engineering but there was not a single college in vicinity. Owing to my poor economic condition such education in big cities was beyond my reach. So I took admission to H.S.C. science in my own village. In 2009, after 12th, I came to know that Mr. B. R. Gaikwad has established Diploma Engineering College named Shivaji Polytechnic College, Sangola. It was a ray of hope for me. The dream which was distant seemed to be within reach now. I took admission to Mechanical Engineering. Here, I would like to take this opportunity through this Newsletter to thank Mr. B.R. Gaikwad for establishing and running such an excellent institute that too in rural area for the sons and daughters of farmers. My dream to become an entrepreneur would never have become reality if he had not established this institute.

When I was pursuing Diploma my decision to be entrepreneur was getting firm day by day as I was getting everything which was needed to be an entrepreneur. All the labs were fully equipped so that I could learn everything practically which consolidated my theoretical concepts. In final year teachers would ask us about our dream companies, I was the only student who didn't want to be salaried employee as I had fixed my goal to do something for farmer community.

In 2012, I completed Diploma and degree in 2015 in Mechanical Engineering with good academics .if wanted, I could have got job in any company but my dream doing something for farmers made me restless. It was really a herculean task for me to start a business without initial capital. In 2016, I along with my two brothers established an agro company named "**Kakade Agro Equipments**" at Tandulwadi village in Solapur district, with meager capital of just Rs. 1000000 lac. The product which I have started is **Tufan Blowers** has received huge response from farmers' community across the Maharashtra and other states as well. I feel proud to say that I have succeeded to produce this product by using cost effective techniques in order to make them available to farmers at very low cost. Within five years company has got fame and name in the field of agro products. Today company's annual turnover is more than 30 million. In last five year company has succeeded to sell more than 1000 Tufan Blowers only because of trust of farmer's community. Taking cognizance of my venture number of awards has been conferred upon me by reputed Government and Non-Government institutions.

1) **Farm Leadership Award 2019 by ICFA Govt. of India, at New Delhi.**

2) **Engineering Excellence in Agro Manufacturing at Bangalore.**

Still there are miles to go, I want to expand my company at national and international level and invent new agro products for the betterment of farmers. Once again thank you MSBTE and Shivaji Polytechnic for nurturing and bringing out an entrepreneur in me.

Receiving **Farm Leadership Award 2019 by ICFA Govt. of India, at New Delhi.** at the auspicious hand of Hon. Dr. M.J.Khan, Chairman Indian Council of Food& Agriculture, New Delhi.

Mr. Dhanaji Kakade
Founder & MD, Kakade Agro Equipments

Ph. D. Award

Mr. Rahul P. Kshirsagar, Principal, Yashodeep Institute of Pharmacy, Aurangabad has been awarded Ph.D. in Pharmaceutical Sciences from Jawaharlal Nehru Technological University, Hyderabad (JNTU-H) for his research work entitled "Potential of certain Medicinal Plants / Synthetic Compounds on Diet Induced Diabetic Complications in Experimental Animals" held in May 2020.

Dr. R. P. Kshirsagar

Principal, Shri Nitin G Dumore of Dadasaheb Balpande College of Diploma in Pharmacy, Besa Nagpur has been awarded the degree of Doctor of Philosophy(PhD) in Pharmaceutical Sciences by Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur on the topic entitled "Studies on effects of Withania Somnifera on addictive behaviour of nicotine" This study was supervised by Dr. Milind J Umekar,Professor and Principal ,Smt

Dr. N. G. Dumore

Kishoritai Bhoyar College of Pharmacy,Kamptee. He is highly thankful to his guide ,Management,faculty members and supporting staff for their constant support.

NCRD's Institute of Pharmacy, Nerul organized National Webinar on the topic "Role of pharmacist in patient counseling" on 22nd September 2020. The speaker was Mrs. Manjiri Gharat, Principal of Prin. K. M. Kundnani Pharmacy Polytechnic, Ulhasnagar.Around 400 participants which included faculty and students from all over India had registered for the webinar. Due to Covid-19 pandemic, the webinar was conducted using YouTube livestreaming.

On the occasion of Engineers Day on 15th Sept, 2020 Hon'ble Principal Prof. N. G. Haswani inaugurated "Automatic Hand Sanitiser Dispenser Model" made by Prof. V. P. Mahajan,HOD, Electrical Engineering Department, R. C. Patel Polytechnic, Shirpur taken initiative and prepared "Automatic Hand Sanitizer Dispenser" in very less cost using college resources

International achievement By Faculty

Mrs Manjiri Gharat, I/c Principal of Prin.K.M.Kundnani Pharmacy Polytechnic, Ulhasnagar has been elected as Vice-President of "The International Pharmaceutical Federation (**FIP**)" for the period 2020-24. FIP is the global body representing over 4 million pharmacists and pharmaceutical scientists. She is the first women to achieve this highest designation from India.

safe and effective use of medicines.
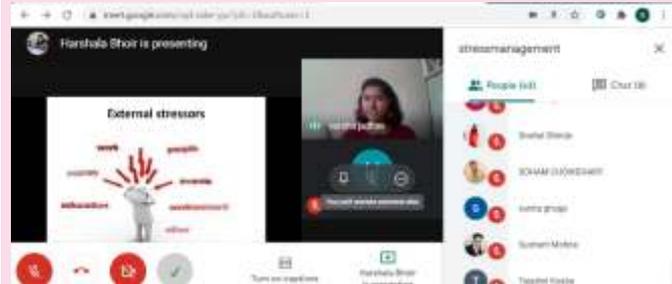
Pravin Patil College Of Diploma Engineering And Technology, Bhayandar organized Webinar On STRESS MANAGEMENT for Faculties by Varsha Jadhav,Phychiatric Social Worker on Ocassion Of Teachers Day 2020 through Google Meet

Awareness Program at Adopted Village Grampanchayat- Pathari On 'Health Management, Organic Farming and Benefit of Organic Food for the benefit of Human Beings' organised by Government Polytechnic,Sakoli on 14 Aug.2020

Photograph of Online program organized:-

Padm. Dr. V. B. Kolte College of Engineering & Polytechnic, Malkapur Organized National Level one Week Faculty Development Programme on "Introduction of Accreditation Mechanism and NBA approach" (Online) during May 2020

Department of Civil And Rural Engineering has organized one day Webinar on "Pressure Management in Village Water Supply Distribution System"by Dr Panjabrao Deshmukh Polytechnic, Amravati

Student Training

Entrepreneur Talk on
Startup 101 and Innovation
PRESENTED BY:
MR. ASHISH TETALI
CO-FOUNDER,
ARTUS, GREATER ST. LOUIS,
UNITED STATES
ORGANIZED BY
TRAINING & PLACEMENT CELL
Sinhgad Technical Education Society's
Sinhgad Institutes Sou. Venutai Chavan Polytechnic, Pune (MH, India)
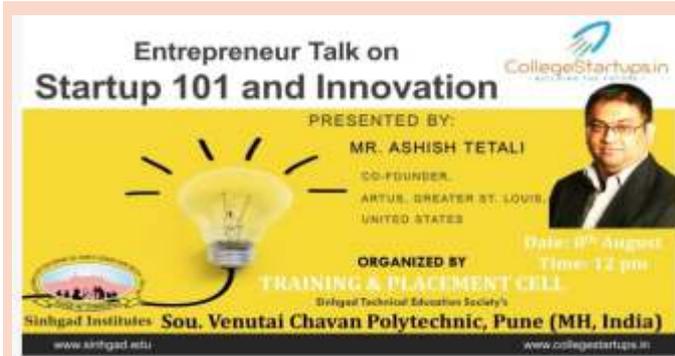
Mechanical department of Sou. Venutai Chavan Polytechnic, Pune organised webinar on "Startup 101 and Innovation" for First, Second and Third Year student on 08th August 2020. The Speaker was Mr. Ashish Tetali , Co- founder Artus, greater St. Louis, United States. Total 112 students participated in it.

Yashwantrao Bhonsale College of D. Pharmacy, Sawantwadi, Sindhudurg conducted a Live webinar on topic "Role Of Pharmacists In Patients Safety During COVID-19 Era"on 19th June 2020. The seminar was conducted by industry experts from IHPA,Six Sigma Health Care, Cliniminds, Indian Pharmacopeia Commission and CDSOCD. Glimpse of participants.

**Latest Technical Innovations**

Mr. Kaustubh Kashale, student of Computer Engineering Department of Sou. Venutai Chavan Polytechnic, Pune was designed & developed a "Touch Free Hand Sanitizer Dispenser Machine" in lockdown period. The machine has many features like – timer, beep sound, sanitizer level checking window etc.

Students of Diploma in Pharmacy from the Dept of Pharmacy, Armed Forces Medical College, Pune were deployed in the Covid-19 ward at MHCTC (Army hospital) Pune and Sardar Vallabhbhai Patel Covid Hospital Delhi to perform the duties as assigned by the organization.

Joshi (Sr. Research And Development Engineer,Robokart Pvt . Ltd)
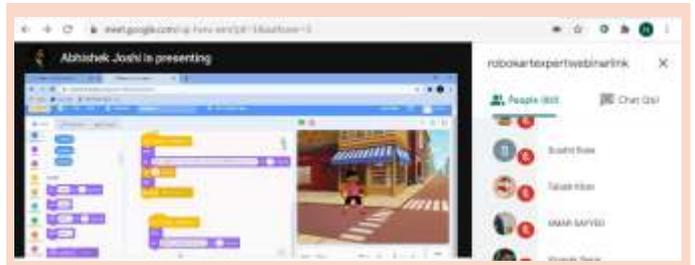
Pravin Patil College Of Diploma Engineering And Technology, Bhayandar organized Webinar On Scratch Programming for students through Google Meet on 24th   August 2020 by Mr.Abhishek Joshi (Sr. Research And Development Engineer,Robokart Pvt . Ltd)

"10th World Pharmacist Day celebrated" at Konkan Gyanpeeth Rahul Dharkar College of Pharmacy and Research Institute, Karjat

10th World Pharmacist Day celebration 2020 was celebrated online at Konkan Gyanpeeth Rahul Dharkar College of Pharmacy and Research Institute Karjat in association with IPA Raigad branch on 25th September 2020. Various eminent speakers from AICTE, IPA and Pharma industry were present. The theme for the Pharmacist Day celebration was "Transforming Global Health". This celebration was conducted live on YouTube platform and virtual competitions were conducted for the D Pharmacy students all over the state.

Future Farming Equipment and Infrastructure

Department of Civil Engineering of Government Polytechnic Bramhapuri (District-Chandrapur) organized an international webinar in August, 2020. In this webinar, Dr. Chandan Kumar Singh (Post Doctoral Fellow, California University, Mercede, America) delivered a seminar on the topic 'Irrigation in California Central Valley'. He discussed the advanced technology for future irrigation and farming. The webinar received huge response from students as well as teachers.

The best of our work comes out when you are pushed to the wall. The world is pushed to the wall right now. - Madan Gowri

Team of GPB during visit to a village

"Unnat Bharat Abhiyan" was organized by Government Polytechnic Bramhapuri. Upliftment of living standards & socio-economic aspects was specified in Unnat Bharat Abhiyan. Accordingly the institute initiated work for development of innovative technologies for local areas. Under this campaign, villages - Adyal, Khed-Makta, Kharbi, Dudhwahi & Kolari in Bramhapuri tehsil were selected for UBA activities. Project works on the theme, "Water Management and Renewable Energy" were commenced in 05 villages.

Padmashri Dr. Vitthalrao Vikhe Patil Institute of Technology and Engineering, (Polytechnic) Pravaranagar, Ahmednagar conducted "ON LINE ENTREPRENEURSHIP AWARNESS CAMP", sponsored by Incubation & Innovation Centre, Ministry of MICRO, SMALL & MEDIUM ENTERPRISES (MSME), Government of India, New Delhi. MSME Technology Centre Indo German Tool Room (IGTR), Aurangabad and Gesellschaft fuer International Zusammenarbeit (GIZ on 20th August 2020. Mr. H. D. Kapase, Managing Director, IGTR, Aurangabad, addressing students.

Gold medal in the FESPA 2020 Young Star category awarded by the Federation of European Screen Printers Association (FESPA) to Thakkar Karthik, Gawde Aniket, Kale Pawan, Khangate Durva, Bendre Subhankar & Raut Swapnali students of the PVG's Maharashtra Institute of Printing technology Pune at the Global Print Expo Madrid, Spain. Seen are students with faculty. The first Lady Loco Pilot from Solapur, E&TC Engineering Department, an Alumni of Shri Siddheshwar Women's Polytechnic, Solapur. In today's world of cut throat competition, she was amongst the approx 92 lakhs students apply for RRB loco pilot exam.

Achievement

The first Lady Loco Pilot from Solapur, E&TC Engineering Department, an Alumni of Shri Siddheshwar Women's Polytechnic, Solapur. In today's world of cut throat competition, she was amongst the approx 92 lakhs students apply for RRB loco pilot exam.

Snehal Ambarkar

Achievement of Institute Innovation Council of VPM's Polytechnic, Thane

VPM's Polytechnic , Thane is proud to announce that Ministry of Human Resource Development (MHRD), Govt. of India and Institution's Innovation Council has awarded ★★★★½ (four and a half stars out of five stars) for activities organized during the year 2019-20 under the leadership of Principal Dr. D.K. Nayak and President IIC cell- Dr. Usha Raghavan.

Ministry of Human Resource Development (MHRD), Govt. of India has established 'MHRD's Innovation Cell (MIC) to systematically foster the culture of Innovation amongst all Higher Education Institutions (HEIs) in the year 2018-19. The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are in formative years.

VPM's Polytechnic, Thane organized 16 IIC driven activities, 22 MIC driven activities, 10 Self- driven activities. 10 innovative ideas were submitted and 5 prototypes were nominated for the innovation contest. These initiatives have certainly created the awareness and importance of providing solutions to problems that will benefit the society by and large

Webinar on "Importance of Innovation" conducted by MIC

Business Idea Competition conducted under IIC

MSBTE NEWSLETTER

Technology Business Incubation Centre initiated at VPM's Polytechnic, Thane

Field Visit to TBI-SPIT Mumbai.

Newsletter Feedback

MSBTE newsletter" is a platform for many of the students and faculties to showcase their talents and express themselves in front of the society. MSBTE always strives hard to throw light on such excellent and current topics. The theme of current issue "Role of technology in saving lives in COVID-19 pandemic" surely will bring on new innovations for the betterment of society in this corona crisis. This Newsletter always helps us in keeping ourselves updated not only in academics but also on entrepreneurial, social, industrial backgrounds. It always appreciates the contribution of institutes like ours to furthering the cause of empowering today's youth to become successful tomorrow. I heartily thank and congratulate the healthy efforts of MSBTE in showing the right direction to the institutes like us and organizing programs and trainings for our students and faculty members which surely proves beneficial.

Dr. M. K. Kale, Principal
Konkan Gyanpeeth Rahul Dharkar College of Pharmacy & R. I.,
Karjat-Raigad

Dr. M. K. Kale

I appreciate and welcome the initiative taken by MSBTE to launch *News Letter* to provide platform for students and faculty to express their views on trending topics. MSBTE News Letter is a very informative document for all students as well as faculty members of all the polytechnic colleges in Maharashtra. The topics discussed here are very innovative and informative. The newsletter also updates us about the happenings in the industry as well as important milestones achieved by polytechnic colleges. It also helps us to get familiar with the achievements of the students who have become entrepreneurs. It has become an excellent platform for the institutes to showcase innovative activities carried out at institute levels to improve the quality of technical education and all round development of students to enhance their employability. I would like to mention specially "*Success story of Diploma Holder* "chapter will prove very informative and inspiring for students to become entrepreneurs. The current *topic "Role of technology in saving lives in Covid 19 pandemic"* is quite apt in this situation when the entire world is going through ordeal.

Mr. Sawant S.M. (M.E.CSE)
HOD Computer Engineering Dept.
Shivaji Polytechnic College, Sangola

Mr. Sawant S.M

MSBTE Newsletter is good media for publishing information and events conducted by all Diploma Institutes in Maharashtra. The topics discussed here are very innovative. The current theme **"Role of technology in saving lives in COVID-19 pandemic".** Newsletter motivates us by displaying the various achievements by faculties and students. I wholeheartedly thank MSBTE for providing an excellent platform to share our creative ideas and thoughts. I wish the MSBTE newsletter team All the Best and hope it will continue to touch heights of excellence.

Mr. Mahindra Kasode, Lecturer
Konkan Gyanpeeth Rahul Dharkar College of Pharmacy
Karjat-Raigad

Mr. M. Kasode

MSBTE newsletter is a one of the best platform for students and faculty to express their views on trending topics. The theme of the current issue "Role of Technology in saving lives in Covid-19 Pandemic" is very important in today's digital world. Today, the role of teacher's is very important, as all schools are still closed but teaching and learning process is continuously conducting through the digital platform. MSBTE Newsletter also updates the knowledge of new technology, achievements of Polytechnic Colleges, views on the theme of Faculty and Students. I congratulate MSBTE all members of the editorial board for their sincere effort, dedication to realize this new venture.

Ms. Motgi V.G.
Lecturer, E&TC Engineering Department

Ms. Motgi V.G.

I have extraordinary delight and pride to report that the MSBTE is distributing the Newsletter. This newsletter is more than an efficient way to communicate with our colleges. MSBTE Newsletter are intended to keep your faculties and students updated on current events, helpful tips and other useful information, like upcoming updates & important links to event calendars. I would like to thanks for all members of MSBTE. I earnestly wish and sincerely hope that this new publication turns out to be a resounding success

Prof.Mohite Surabhi
Trinity Polytechnic, Pune

Prof. Mohite S.