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Forecast & Quote of the Month

"Antarang 2021-22"



ANTARANG - Internal Cultural day and Internal Sports day was organised by Dr. D. Y. Patil College of Engineering and Innovation, Talegaon, Varale on 2nd & 3rd March 2022. Under ANTARANG fashion show Event was organised on 02nd March 2022 by the Department of Engineering. It was Coordinated by Prof.Supriya Boraste (Comp. Department) and Prof.Sherin Kurian (FE Department). There were total of 18. participants for the event. The Event was well coordinated by Student coordinators Deepti Vakade and Kunal Swami. The Event consist of three rounds in which first round was solo round, second round was couple round and third was the group: round.





★★★

"Antarang - Sport Events"



**Volleyball Final Match.
TE Civil vs FE-A**



Cricket Final Match.



The Chess Match



**Winners of Cricket Match FE
Div - C**



**The First Carrom Match
played by our Chief guest**



**E-bulletin first opening by our
Chief guest**



**The Chess Match played by our
FE Div - C Students**



**Inauguration of cricket match by
honorable Principal sir Dr. Suresh
Mali**



बाजीप्रभू देशपांडे

१६१० - १६६०

Siddhu Jadhav

स्वराज्यासाठी अतुलनीय पराक्रम गाजवून प्राणार्पण करणारे आणि हिंदवी स्वराज्याचा पाया रचणारे शूर सरदार..... बाजीप्रभू देशपांडे

पुणे जिल्ह्यातील भोर तालुक्यातील हिरउस मावळातला पिढीजात सरदार म्हणजे बाजीप्रभू देशपांडे. त्यांचे प्रशासकीय कौशल्य आणि शौर्य हेरून महाराजांनी हे अष्टपैलू व्यक्तिमत्त्व आपलेसे करून घेतले. वयाच्या पन्नाशीतही २०-२२ तास अविश्रांत काम करणाऱ्या बाजींचा संपूर्ण मावळ प्रांतात मोठा दबदबा होता. महाराजांपेक्षा वयाने मोठ्या असणा-या बाजीप्रभूंच्या मनात महाराजांविषयी आत्यंतिक प्रेमाबरोबरच भक्तिभाव होता आणि वडीलकीच्या नात्याने काळजीचीही भावना होती. पन्हाळगडाला शत्रूने वेढा घातलेला असता छत्रपतींची त्यातून सुटका करणे; महाराजांना विशाळगडापर्यंत पोहोचवण्याची व्यवस्था करणे या भूमिका निभावताना बाजीप्रभूंनी आपले केवळ शौर्यच नव्हे तर प्राण पणाला लावले. ही घटना स्फुरण चढवणारी, स्वराज्याविषयीचा अभिमान आजही आपल्या रोमरोमात भिनवणारी आहे.

Plasma Therapy

Vaishnavi kavitake

FE Div - C

★ What is plasma therapy?

Plasma therapy, scientifically called convalescent plasma therapy, is a treatment method employed to combat COVID-19. It is currently in the experimental stage and used on patients with severe cases of COVID-19.

If you recovered from COVID-19, you would have developed certain antibodies. These are proteins produced in our body to fight infections. Note that plasma is the liquid component of the blood. This blood is convalescent plasma.

In plasma therapy, doctors use plasma from recovered persons. Researchers hope to boost the ability of severely affected patients by injecting the convalescent plasma into their blood. They also expect to prevent moderately affected persons from becoming critically ill.

★ Who Should Get Plasma Therapy?

Patients with severe COVID-19 are usually considered for convalescent plasma therapy. The treating doctor will take the call, whether it may benefit them or not. After considering your blood type, your doctor will arrange the compatible blood group from the local blood source.

★ Outcomes

We cannot confirm whether convalescent plasma therapy is effective to cure COVID-19, yet. Hence, it is also possible that you do not see any result. With that said, it might improve your ability to recover faster.

The encouraging news is that so far, many people responded positively to convalescent plasma therapy. Monitoring continues on those who received the treatment.



Attack on United States

Shreenath Patil
Div C F.E



The September 11 attacks, commonly known as 9/11, At approximately 8:46 a.m. on a clear Tuesday morning, an American Airlines Boeing 767 loaded with 20,000 gallons of jet fuel crashes into the north tower of the World Trade Center in New York City. The impact left a gaping, burning hole near the 80th floor of the 110-story skyscraper, instantly killing hundreds of people and trapping hundreds more in higher floors. As the evacuation of the tower and its twin got underway, television cameras broadcasted live images of what initially appeared to be a freak accident. Then, 17 minutes after the first plane hit, a second Boeing 767 United Airlines Flight 175 appeared out of the sky, turned sharply toward the World Trade Center, and sliced into the south tower at about the 60th floor. The collision caused a massive explosion that showered burning debris over surrounding buildings and the streets below. America was under attack.

The attackers were Islamic terrorists from Saudi Arabia and several other Arab nations. Reportedly financed by Saudi fugitive *Osama bin Laden's* al Qaeda terrorist organization, they were allegedly acting in retaliation for America's support of Israel, its involvement in the Persian Gulf War, and its continued military presence in the Middle East. Some of the terrorists had lived in the United States for more than a year and had taken flying lessons at American commercial flight schools. Others had slipped into the U.S. in the months before September 11 and acted as the "muscle" in the operation. The 19 terrorists easily smuggled box-cutters and knives through security at three East Coast airports and boarded four flights bound for California, chosen because the planes were loaded with fuel for the long transcontinental journey. Soon after takeoff, the terrorists commandeered the four planes and took the controls, transforming the ordinary commuter jets into guided missiles.



Extreme air pollution

hampering India's solar electricity generation

Rucha Sambare
FE Div - C

India will struggle to meet a target of generating 100 gigawatts of solar power this year as high levels of atmospheric pollution are hindering the country's ability to generate energy, a study has found.

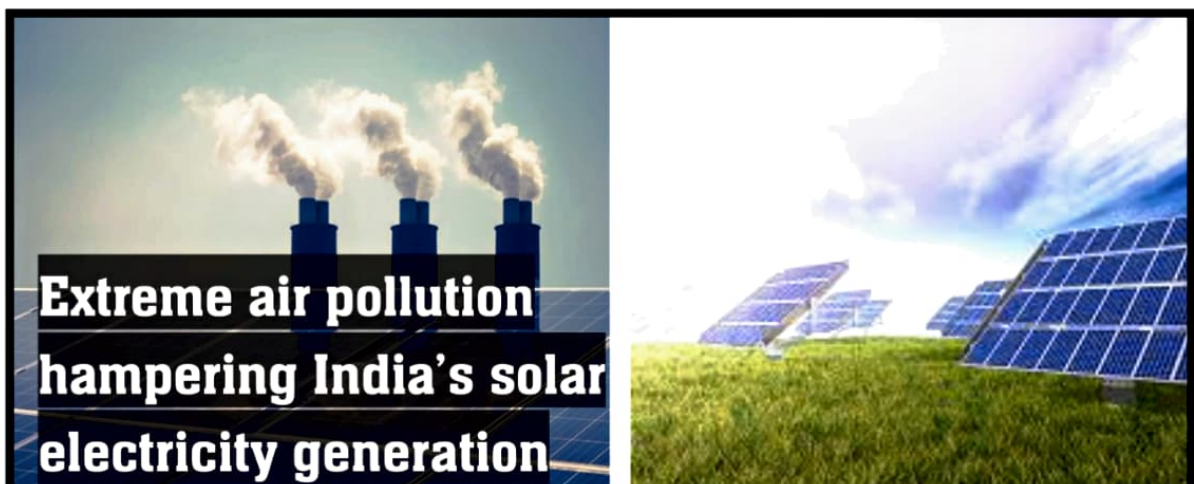
Atmospheric pollution reduces solar power generation because it both absorbs and scatters the Sun's rays, as well as leaving deposits on solar panels that reduce their efficiency.

A study carried out by IIT Delhi calculates that between 2001 and 2018 India lost 29 per cent of its solar energy potential as a result of atmospheric pollution - equivalent to an annual loss of £635m.

As of March this year, India had only reached the halfway mark of 50 gigawatts of installed solar capacity, according to the research group, Mercom India.

"Put simply, aerosols - which include fine particulate matter, dust, mist and fumes suspended in the air - significantly reduce incoming solar radiation in what we call the 'atmospheric attenuation effect'," said study author Sagnik Dey. "This needs to be factored in when undertaking large solar energy projects."

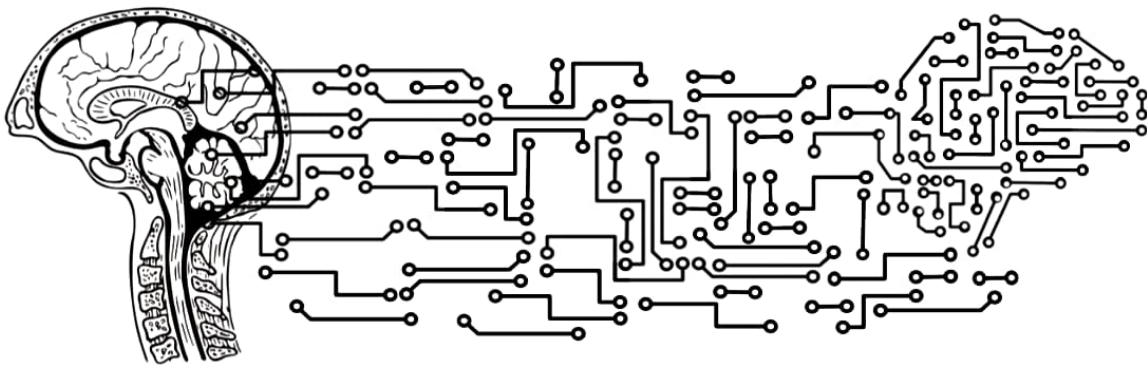
Many projects are also failing to account for the "soiling effect" of aerosols depositing on solar panels altogether, he added



Artificial Intelligence and Its Applications



Aditya Sandip Patil
FE Div- C



Artificial intelligence (AI) has revolutionized information technology. Artificial intelligence (AI) is the ability of a computer or a robot controlled by a computer to do tasks that are usually done by humans because they require human intelligence and discernment.

The new economy of information technology has shaped the way we are living. Recently, AI algorithms have attracted close attention of researchers and have also been applied successfully to solve problems in engineering. Nevertheless, for large and complex problems, AI algorithms consume considerable computation time due to stochastic feature of the search approaches. Therefore, there is a potential requirement to develop efficient algorithm to find solutions under the limited resources, time, and money in real- world applications. This special issue aims to report the latest advances in every aspect of artificial intelligence technology, including machine learning, data mining, computer vision, multiagent systems, evolutionary computation, and fuzzy logic.



What is Nanotechnology ?

Prof. Rushikesh Londhe

Nanotechnology refers to the branch of science and engineering devoted to designing, producing, and using structures, devices, and systems by manipulating atoms and molecules at nanoscale, i.e. having one or more dimensions of the order of 100 nanometres (100 millionth of a millimetre) or less.

The emergence of nanotechnology in the 1980s was caused by the convergence of experimental advances such as the invention of the scanning tunneling microscope in 1981 and the discovery of fullerenes in 1985

Nanotechnology is the understanding and control of matter at the nanoscale, at dimensions between approximately 1 and 100 nanometers, where unique phenomena enable novel applications.

Nanotechnology is the manipulation of matter on a near-atomic scale to produce new structures, materials and devices. The technology promises scientific advancement in many sectors such as medicine, consumer products, energy, materials and manufacturing.

A few examples of current nanotechnology include the following.

Food security. Nanosensors in packaging can detect salmonella and other contaminants in food.

Medicine. ...

Energy. ...

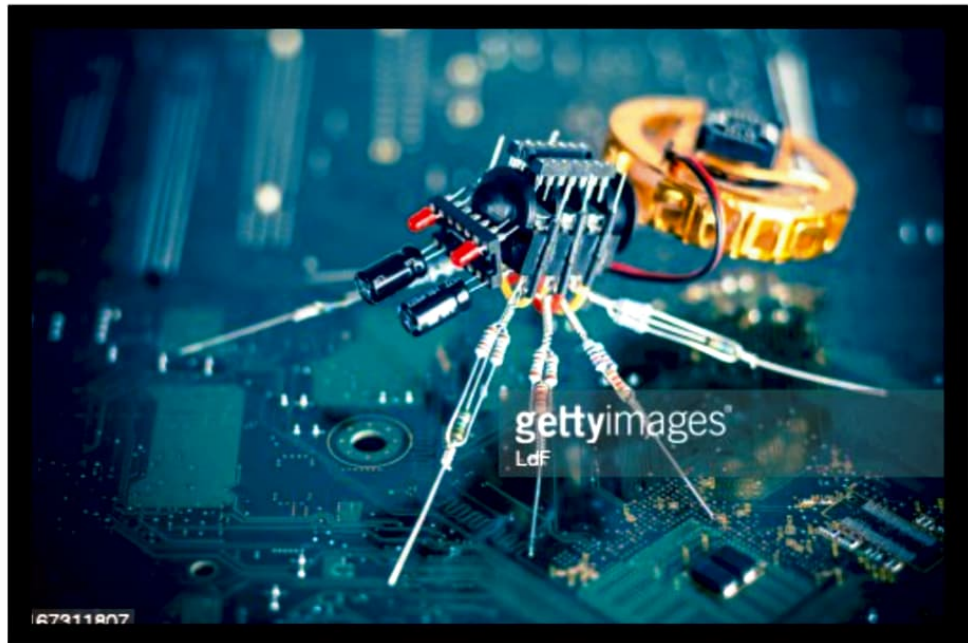
Automotive. ...

Environment. ...

Electronics. ...

Textiles. ...

Cosmetics.



BrahMos Missile

Pranav Jadhav
FE Div - B

The BrahMos has been developed as a joint venture between the Defence Research and Development Organisation (DRDO) of India and the Federal State Unitary Enterprise NPO Mashinostroyeniya (NPOM) of Russia as BrahMos Aerospace via an inter-government agreement. The company was established on 12 February 1998 with an authorised share capital of US\$250 million. India holds 50.5% share of the joint venture and its initial financial contribution was US\$126.25 million, while Russia holds 49.5% share with an initial contribution of US\$123.75 million.

Since late 2004, the missile has undergone several tests from a variety of platforms, including a land based test from the Pokhran range in the desert, in which the evasive 'S' maneuver at Mach 2.8 was demonstrated for the Indian Army and a launch in which the land attack capability from sea was demonstrated.

Keltec (now known as BrahMos Aerospace Trivandrum Ltd or BATL), an Indian state-owned firm, was acquired by BrahMos Corporation in 2008. Approximately ₹1,500 crore (equivalent to ₹36 billion or US\$466.2 million in 2020) will be invested in the facility to make BrahMos components and integrate the missile systems. This was necessitated by the increased order book of the missile system, with orders having been placed by both the Indian Army and Navy. Initially, Russia supplied 65% of the BrahMos components, including its ramjet engine and radar seeker. Currently 65% of the missile is manufactured in India and there are plans to increase this to 85% by replacing the components with an Indian made seeker and booster.



The BrahMos (also designated as PJ-10) is a medium-range stealthy ramjet supersonic cruise missile that can be launched from submarine, ships, aircraft or land. It is the fastest supersonic cruise missiles in the world. It is a joint-venture between the Russian Federation's NPO Mashinostroyeniya and India's Defence Research and Development Organisation (DRDO), who together have formed BrahMos Aerospace. It is based on the Russian P-800 Oniks supersonic anti-ship cruise missile. The name BrahMos is a portmanteau formed from the names of two rivers, the Brahmaputra of India and the Moskva of Russia.

It is the world's fastest Anti-Ship Cruise Missile currently in operation. The Land-launched and Ship-launched versions are already in service. An Air-launched variant of BrahMos appeared in 2012 and entered service in 2019. A hypersonic version of the missile, BrahMos-II, is also presently under development with a speed of Mach 7-8 to boost aerial fast strike capability. It was expected to be ready for testing by 2024.

Its propulsion is based on the Russian missile, and missile guidance has been developed by BrahMos Aerospace. The missile is expected to reach a total order of US\$13 billion. In 2016, as India became a member of the Missile Technology Control Regime (MTCR), India and Russia are now planning to jointly develop a new generation of Brahmos missiles with 800 km range and an ability to hit protected targets with pinpoint accuracy. Plans are to eventually upgrade all missiles to a range of 1500 km.

Arts



Ranvita Ravindra
Mathapati
FE Div- - C



Ranvita Ravindra
Mathapati
FE Div- - C



Pratham Matte
FE Div- - B



Vaishnavi Balkrishna
Kavitake
FE Div - C



Pratham Matte
FE Div- - B



Vaishnavi Balkrishna
Kavitake
FE Div - C

★★★

Achievement...

Department of First Year Engineering Congratulates our student Omkar Bankar who got silver medal at National Kickboxing Championship. A Big Congratulations to You.☒☒



★★★★

FORECAST

We at DYPCOEI are planning to organize an industrial visit for the engineering students to provide them an understanding of functioning of the industry

Quote of the Month

To believe in your dreams... You need to believe in your hard work.. To believe in your hard work... You must learn to believe in your own self...

Dipannita Mondal

★★★