CURRENT AFFAIRS MONTHLY MAGAZINE

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Science & Technology Current Affairs:

IIT Hyderabad and Greenko inks a pact to establish sustainable sci-tech school

Renewable energy major Greenko and IIT Hyderabad have signed a memorandum of understanding (MoU) to launch India's first dedicated school for sustainable science and technology.

The school will be advancing knowledge in the key thrust areas of climate change mitigation, artificial intelligence and space technology, energy transition and industrial transformation, circular and regenerative economy among others. The Greenko School of Sustainable Science and Technology (GSSST) will open toward the end of this year, according to a statement from the company, and by June 2023, the first batch of students will be admitted for the MTech and Ph.D. programmes in sustainable science and technology, followed by the BTech programme.

KEY POINTS:

It will be the nation's first institution solely focused on teaching sustainable science and technology. Dharmendra Pradhan, the Union Minister for Education, was present when the MoU was signed.

Dharmendra Pradhan stated that in order to achieve self-sufficiency and advance global welfare, we must innovate and create our own models. Technology is accessible in the twenty-first century to make the task easier.

India will take the lead in the fourth industrial revolution, and IIT Hyderabad will have a significant impact on the internationalisation of the Indian brand. Everyone must realise the goal of an Aatmanirbhar Bharat set forth by the prime minister.

Utilizing BiSAG-N app, Steel Ministry interfaces with GatiShakti portal

The Ministry of Steel said that it has joined the PM Gati Shakti Portal and uploaded the geo coordinates of important projects in an effort to detect and address connection gaps in the infrastructure.

According to a press release, the ministry registered itself on the National Master Plan portal with the help of the Bhaskaracharya National Institute for Space Applications and Geo-informatics (BiSAG-N) app.

All of the central public-sector enterprises' (CPSE) steel plants' geolocations have been published to the portal. All of these CPSEs' mine locations were in the process of being uploaded.

Static/Current Takeaways Important For All Exam 2022:

Union Minister of Steel: Sh. Ram Chandra Prasad Singh

IIT-M technology to play 'Pivot'al role in providing patients with cancer with individualised care

Researchers at IIT Madras have created a ground-breaking technique that may pinpoint a person's cancer-causing genes. The "Pivot," an AI-based tool, will assist clinicians in developing individualized treatment plans for patients based on patient DNA profiles. The tool is built on a machine learning model that classifies genes into cancer-preventing tumour suppressors, oncogenes that cause cancer, and neutral genes.

Key Points:

In order to identify the gene that causes cancer in an individual, or more specifically to identify unusual genes that cause cancer, the model will analyse data such as the frequency with which a gene mutates, its properties, the sorts of mutations, and the quantity of harmful mutations. It is well knowledge that current cancer treatments will have a negative impact on the patient's general health.

According to the research team, understanding the genes responsible for the development and spread of cancer in patients can aid in choosing the drug and therapy regimen that will have the greatest positive impact on their prognosis. The traditional method of tracing a cancer-causing gene involves analyzing samples from several patients to determine how frequently the gene has mutated. If openly available cancer genome data from sites like ICGS had been of great assistance to the IIT-M scientists, then more Indian cancer genome data—which is still lacking on an exclusive local platform—is needed for the tool to be used effectively.

The International Cancer Genome Consortium (ICGC) and The Cancer Genome Atlas Program provide the majority of the genetic information used to feed the model (TCGA).

Nokia partners with IISc to set up networked robotics Center of Excellence

Finnish telecom gear maker Nokia has partnered with Indian Institute of Science to set-up Nokia Center of Excellence in networked robotics at IISc Bengaluru.

The Center of Excellence (CoE) will promote inter-disciplinary research involving robotics and advanced communication technologies in 5G and Artificial Intelligence (AI), a joint statement said on Friday. It will also develop use cases across industrial automation, agriculture and disaster management.

About the center:

The center will facilitate engagement and cooperation between academia, start-ups and industry ecosystem partners to research and develop these use cases. The research projects undertaken by the CoE will include the design of advanced robotics, AI and automation solutions built upon next-generation telecom networks and their applications for solving societally relevant problems.

Nokia has been present in India since the last 22 years and deployed all technologies that have been used for mobile communication starting from 2G in 2000, 3G in 2011, 4G in 2012 and gearing up for commercial 5G.

1st Webb Telescope image reveals earliest galaxies formed after Big Bang

US President Joe Biden has released one of the James Webb Space Telescope's first images in a preview event at the White House in Washington. This first image from NASA's James Webb Space Telescope is the deepest and sharpest infrared image of the distant universe to date.

Key points:

- Known as Webb's First Deep Field, this image of galaxy cluster SMACS 0723 is overflowing with detail. Thousands of galaxies including the faintest objects ever observed in the infrared have appeared in Webb's view for the first time. This slice of the vast universe covers a patch of sky approximately the size of a grain of sand held at arm's length by someone on the ground.

- This deep field, taken by **Webb's Near-Infrared Camera (NIRCam),** is a composite made from images at different wavelengths, totaling 12.5 hours achieving depths at infrared wavelengths beyond the Hubble Space Telescope's deepest fields, which took weeks.

Arohan Financial Services launches digital lending app

NBFC-MFI Arohan Financial Services has launched a digital lending app named 'ApnaArohan' for its existing customers.

This app will help its customers make repayments and other transactions through the digital mode. It reduces the physical interaction with the loan officers of the MFI. The AI-powered app will help to increase the outstanding portfolio from ₹4,500 crore (June 2022) to around ₹5,100 crore by the end FY23.