

SCIENCE AND TECHNOLOGY

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Science and Technology

What is Science and Technology

- Science and technology is a topic that encompasses science, technology, and the interactions between the two.
- The **Science** is a systematic enterprise that builds and organizes knowledge in the form of explanations and predictions about nature and the universe.
- Science is accomplished by observation, forming hypotheses from those observations, and testing them
- **Technology** is the collection of techniques, methods or processes used in the production of goods or services.
- Technology needs science to advance the goods it produces, but none of the steps in the scientific method can be accomplished without the means of modern technology as well.

New landforms on Mars was found by scientists.

- Scientists have found images which show spider formations on Mars.
- As many as 10,000 citizen scientists help to discover landforms known as spiders on parts of Mars.
- The discovery was made by volunteers working on behalf of Planet Four Terrains, the online project hosted by Zooniverse.

RNSS-1H satellite launch is unsuccessful says ISRO.

- India attempt to launch its eighth regional navigation satellite failed on Thursday.
- The IRNSS-1H satellite didn't come out of the heat shield as it should have, though the rocket lift off was as planned.

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- IRNSS-1H was being sent to space to back up and mostly replace the functions of India's first navigation satellite

Scientists discover a massive Black Hole near Heart of The Milky Ways.

- Near the heart of the Milky Way, a huge black hole about 100,000 times more massive than our Sun is discovered lurking in a toxic gas.
- The confirmation is that the object will rank as the second largest black hole in the Milky Way.
- Astronomers from the Keio University in Japan using the Alma telescope in Chile were observing a gas cloud to understand the movement of its gases.

IRNSS-1H likely to re-enter earth.

- The Indian Space Research Organisation (Isro), is tracking the IRNSS-1H navigation satellite.
- The IRNSS-1H navigation satellite floating in space anticipating it to re-enter the Earth's atmosphere, but fall safely into the sea.
- The IRNSS-1H mission is unsuccessful after the heat shield in PSLV failed.

Indian Scientists Make Fuel from Sunlight with Artificial Leaf.

- Indian scientists developed an artificial leaf that absorbs sunlight to generate hydrogen fuel from water.
- The ultra-thin wireless device mimics plant leaves to produce energy using water and sunlight.

SpaceX set to launch the X-37B, the Pentagon's secretive autonomous space drone.

- After a successful morning launch at Cape Canaveral Air Force Station in Florida, the X-37B headed yet again to the vital real estate known as low Earth orbit.

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- On the tarmac, the X-37B, as it is said, looks tiny, standing not much taller than a person.
- Its wingspan measures less than 15 feet, and it weighs in at just 11,000 pounds.

Images Of strong solar flares has captured by NASA.

- NASA says they have found the two high-intensity solar flares which were emitted on Wednesday.
- The second of which was the most intense record since the start of this Sun cycle in December 2008.
- Solar cycles last on average eleven years. At the end of the active phase, these eruptions become increasingly rare but still can be powerful.

Scientists are developing the Ultra-thin craft to wrap space debris.

- Scientists are developing an ultra-thin spacecraft that can remove space debris.
- The Brane Craft is developed by U.S.-based Aerospace Corporation.
- The scientist says that it is flexible and measures less than half the thickness of a human hair.

Scientists discover a new brainless creature.

- Scientists from around the world including one of India, have found a jellyfish without a brain or central nervous system.
- Cassiopeia, a stationary jellyfish is found in the mudflats, mangrove swamps, and other warm, shallow waters.

Scientists from Brown University have created the first map of water on Moon.

- The first map of water on Moon was created by scientists from Brown University.
- The research got money by the NASA Lunar Advanced Science and Exploration Research Program.

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- It is built on the initial discovery in 2009 of water and a related molecule hydroxyl.

World's Smallest Spacecraft takes a launch by Indian Rocket.

- The world's smallest spacecraft have successfully been placed in low Earth orbit by Indian Space Research Organization.
- Its name is Sprites, and it is about 3.5cmx3.5cm space probes weigh 4 grams each and run on sunlight.

Chinese quantum satellite sends 'unbreakable' code.

- China has sent an “unbreakable” code from a satellite to the Earth, marking the first-time space-to-ground quantum key distribution technology.
- China made a launch to the world’s first quantum satellite last August, to help establish “hack proof” communication.

A new Spacesuit got unveils by SpaceX.

- Elon Musk SpaceX chief executive gave a sneak peek at the California based company futuristic new space suit.
- The white material appears lighter weight than the bulky spacesuits worn by NASA astronauts.
- SpaceX is working on a version of its Dragon cargo capsule that will be able to carry people to low Earth orbit.

India's First Private Sector Satellite took launch on 31st August 2017.

- India is ready to launch its first private sector built navigation satellite today at 6.59 pm from Sriharikota.

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- The satellite will replace one of NAVIC's seven satellites that are malfunctioning.
- Over eight months the new satellite was built by a consortium led by Alpha Design Technologies, a defence equipment supplier from Bengaluru.
- Starting with Aryabhata in 1975 the Indian space agency has conducted 150 missions over the last three decades.

ISRO opens up satellite making to the industry.

- The Indian Space Research Organisation opens the door to domestic entities that can give it up to 18 spacecraft a year starting mid to late 2018.
- The Bengaluru based ISRO Satellite Centre is inviting industries to apply for this opportunity.
- ISAC would sign a three-year contract with the finalists.

NASA's Next Mars Mission to take launch Next year.

- On examining the deep interior of the red planet NASA to launch a mission to Mars in Next year.
- The mission will place a stationary lander near Mars' equator.

Mayak Satellite may be the third biggest object in the sky after Sun and Moon.

- Russia's State Space Corporation Roscosmos successfully launched record-breaking satellites from the Baikonur Spaceport, delivering them into different orbits.
- The satellites that were launched include an Earth observation Kanopus-V-1K satellite, the main payload, and 72 smallsats.
- Mayak was one of the 72 small satellites that were launched into space aboard a Russian Soyuz rocket.

World's first floating wind farm emerges off the coast of Scotland.

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- The world's first full-scale floating wind farm has started to take shape off the north-east coast of Scotland.
- The Peterhead wind farm, known as Hywind, is a trial which will bring power to 20,000 homes.
- Manufacturer Statoil says output from the turbines is expect to equal or surpass generation from current ones.

Indian astronomers discover supercluster of galaxies, name it 'Saraswati'.

- In a significant discovery, a team of Indian astronomers have identified a previously unknown, extremely large supercluster of galaxies.
- The supercluster of 43 galaxies, which they named "Saraswati", is one of the largest known structures in the nearby universe.
- The Saraswati discovery was made by astronomers from IUCAA and IISER.

Basic Static GK

<u>Awards and Honors</u>	<u>Abbreviations (General)</u>	<u>Banking Awareness</u>
<u>Chemistry – General & Organic</u>	<u>Famous Books and Authors</u>	<u>Famous Personalities</u>
<u>Important Days & Years</u>	<u>General English</u>	<u>Physics Awareness</u>
<u>Science and Technology</u>	<u>Sports</u>	<u>Computer Awareness</u>



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