



INDIA SCIENCE AND INNOVATION WEEKLY

Ask the right questions, and nature will open the door to her secrets.

- Dr. C.V. Raman, The Nobel Prize in Physics 1930

India to send humanoid robots into space

Indian Space Research Organisation (ISRO) plans a humanoid-robot conducting experiments in space on 2 occasions before actually sending humans by 2022. The experiments will include testing of medical equipment etc.

India's efforts towards harnessing fusion energy

India is manufacturing the world's largest high-pressure vacuum chamber, a CryoSat, weighing 3,850 tonnes. It will be installed at the International Thermonuclear Reactor (ITER). India is one of the seven members of the ITER project.

Rise of healthcare startups in Bengaluru

Zumutor, Mitra Biotech and OncoStem, which are venture capital based cancer-related tech startups have received early backing from the Indian arms of top US-based Venture Capital funds Accel and Sequoia Capital.

ICMR to improve quality of its data

Indian council of Medical Research's (ICMR)'s National Institute for Medical Statistics (ICMR-NIMS) launched National Data Quality Forum (NDFQ) for gearing towards establishing protocols and good practices when dealing with data collection and storage.

Pattern of Monsoon

Scientists from IIT Bombay and IIT Madras discovered that the volume of monsoon rainfall has increased in water-deficit regions in India. The study was based on the summer monsoon rainfall pattern analyzed over the past century from 1901 to 2004.

India's GSLV successfully launches India's Moon Mission Chandrayaan-2

Chandrayaan 2, India's second mission to the Moon, was launched on July 22, 2019. The Mission includes ISRO's most powerful launch vehicle to date and a wholly indigenous rover. It will shed light on a completely unexplored section of the Moon — its South Polar region. Through this Mission, India aims to expand India's footprint in space; inspire a future generation of scientists, engineers, and explorers; and surpass international aspirations.

Discovery of new Milky Way Stars

Aryabhata Research Institute of Observational Sciences (ARIES) in Nainital, India identified 28 new variable stars in the outer part of the Milky Way galaxy, nearly 60,000 light years away. The discovery was made using the powerful 3.6-metre Devasthal Optical Telescope (DOT). The unique position of ARIES (79° East), places it at almost in the middle of 180° wide longitude band, between Canary Island (20° West) and Eastern Australia (157° East), and therefore complements observations which might not be possible from either of these two places.

India jumps five places in Global Innovation Index

India has improved its innovation ranking from 29 spots in last five years from 81st position in 2014 to 52nd position in 2019. India's rank in World Bank's Doing Business Survey has also improved 65 spots to 77th position in 2018. India improved its ranking in four out of seven pillars of GII, such as knowledge and technology outputs, market sophistication, human capital and research and institutions.

India's first mega-science exhibition

India's first 'mega-science' exhibition 'Vigyan Samagam' is taking place from 29 July to 28 September at the Visvesvaraya Industrial & Technological Museum in Bengaluru. The exhibition will also highlight the role that India and Indians have played in 'mega' science projects in form of international collaborations, such as LHC and CERN.