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

Aryabhatta 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.

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.

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