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Ask the right questions, and nature will open the door to her secrets
- Dr. C.V. Raman, The Nobel Prize in Physics 1930

SERB-DST Partnered with Intel India to Advance Deep Tech-Based Research in India

Science and Engineering Research Board (SERB), a statutory body of Department of Science and Technology (DST), Govt. of India, partnered with Intel India to launch India's first-of-its-kind research initiative called 'Fund for Industrial Research Engagement (FIRE)' to pursue industry-relevant research opportunities in the areas of deep technologies. This partinership would increase research opportunities in the space of Artificial Intelligence (AI)/Machine Learning (ML), platform systems, circuits & architecture, Internet of Things (IoT), materials & devices, security, and so on from edge to cloud. The program intends to select highly impactful research projects in every cycle, which will have breakthrough potential at a national or global level.

India took Step Towards Promotion of Renewable Energy , Hydro PSP and BESS

Ministry of Power, Govt. of India issued an order that promotes the development of solar, wind, Hydro Pumped Storage Plant (PSP) and Battery Energy Storage System (BESS), trading of Renewable Energy (RE) in the power exchanges and seamless transmission of RE power across the states. The order is futuristic as it also allows the waiver of transmission charges for RE trade in the Green Day Ahead Market .

IIT Kharagpur Researchers Developed New Technique to Detect Tropical Cyclones Earlier than Satellites

Researchers at IIT Kharagpur developed a new technique by using Eddy detection technique to investigate & to detect tropical cyclones earlier than satellites in the North Indian Ocean region. The method developed aims to identify initial traces of pre-cyclonic eddy vortices in the atmospheric column and track its spatio-temporal evolution and the study was conducted with cases of four post-monsoon severe cyclones –Phailin (2013), Vardah (2013), Gaja (2018), Madi (2013), and two pre-monsoon cyclones Mora (2017) and Aila(2009) that developed over North Indian Ocean. IIT Kharagpur researchers conducted this study under the Climate Change Program (CCP) with the support from Department of Science and Technology, Govt. of India.

S. N. Bose National Centre for Basic Sciences Developed Electrically Configured Nanochannels

Scientists at S. N. Bose National Centre for Basic Sciences, an autonomous institute under the Department of Science and Technology (DST), Govt. of India, developed electrically reconfigured parallel nanochannels that tune the behaviour of spin waves in nano-structure elements. This technology can revolutionize on-chip data communication and processing in future by eliminating unwanted energy waste and promise wave-based computing. The scientist also believes that these nanochannels can be engineered further to transfer specific bands of frequencies through designed parallel channels towards development of on-chip multiplexing devices.

Special Update: ISRO to Launch Chandrayaan-3 During Third Quarter of 2022

The Union Minister of State (Independent Charge) Science & Technology; Minister of State (Independent Charge) Earth Sciences; MoS PMO, Personnel, Atomic Energy and Space, conveyed that ISRO is likely to launch Chandrayaan-3 during third quarter of 2022 as Chandrayaan-3 realization resumed after commencement of unlock period and is in matured stage of realization. The Minister also confirmed that the realization of Chandrayaan-3 is in progress as it involves various process including finalization of configuration, subsystems realization, integration,spacecraft level detailed testing and a number of special tests to evaluate the system performance on earth.