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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*

IIT-Madras Launched an International Campus at Zanzibar-Tanzania

India's top top-ranked Educational Institute 'Indian Institute of Technology (IIT) Madras' became the first IIT in the country to launch an international campus. Zanzibar Campus, IIT Madras would be located in Zanzibar Island, off the East African mainland and is being planned as a unique and game-changing educational partnership between India and Zanzibar-Tanzania. The Office of Global Engagement, IIT Madras, would coordinate the student entrance process, which would include a screening test developed by faculty experts. This campus would leverage the wide expertise of IIT Madras faculty in interdisciplinary education, research and technological innovation and is on an accelerated plan. With strong support from the local government, IITM Zanzibar is planned as a one-of-a-kind international campus.

Researchers Developed Low-Energy-Consuming Switchable Smart Windows

Researchers at the Centre for Nano and Soft Matter Science (CeNS), Bengaluru developed a low-energy-consuming switchable smart windows which is based on novel architecture for confining liquid crystals. The novel protocol for confinement of liquid crystals in an architecture called hierarchical double networks of polymers could give next-generation solutions for low-energy consuming on-demand switchable smart windows operating between low and high transmittance.

Mobile App Developed for Quick Reporting of Fish Diseases and Timely Scientific Advice to Aqua-Farmers

Recognizing the importance of disease surveillance, an ambitious National Surveillance Programme for Aquatic Animal Diseases (NSPAAD) was supported by the Department of Animal Husbandry, Dairying and Fisheries, and to further strengthen the farmer based reporting, Ministry of Fisheries, Animal Husbandry & Dairying developed "Report Fish Disease" App. The App was launched 28.06.2023 & by using the innovative app, the farmers could report disease cases in finfish, shrimps and molluscs on their farms to the field level-officers and fish health experts and get scientific advice for quickly addressing the disease problem on their farms. The app would be a central platform for connecting fish farmers, field-level officers and fish health experts.

MeitY Inaugurated Product Design Centre (PDC), Setup at Centre for Development of Advanced Computing (C-DAC), Kolkata

Ministry of Electronics and Information Technology (MeitY) inaugurated Product Design Centre (PDC), setup at Centre for Development of Advanced Computing (C-DAC), Kolkata. The centre has prototyping and system designing facilities equipped with all the software and printing technologies for system designing, prototyping, ideation and fabrication. This facility would be beneficial to startups, entrepreneurs and MSME's of the eastern region of the country. An appearance based detection system i.e., Grain-Ex through machine vision technology for pulses developed under 'National programme on Electronics and ICT applications in Agriculture and Environment (AgriEnIcs)' alongwith ICAR-IARI, New Delhi was also launched on this occasion.

Special Update: India Launched Chandrayaan-3

Indian Space Research Organisation (ISRO) successfully launched Chandrayaan-3, which is a follow-on mission to Chandrayaan-2, to demonstrate end-to-end capability in safe landing and roving on the lunar surface. The launcher identified for Chandrayaan-3 is GSLV-Mk3 which would place the integrated module in an Elliptic Parking Orbit (EPO) of size ~170 x 36500 km. Chandrayaan-3 consists of an indigenous Lander Module (LM), Propulsion module (PM) and a Rover with an objective of developing and demonstrating new technologies required for Inter planetary missions. Chandrayaan-3, in its precise orbit, has begun its journey to the Moon and recorded normal health. The Lander would have the capability to soft land at a specified lunar site and deploy the Rover which would carry out in-situ chemical analysis of the lunar surface during the course of its mobility.