



# Current Affairs

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## Nobel Prize in Physics 2025 awarded to Clarke, Devoret and Martinis





### 1. Nobel Prize in Physics 2025 awarded to Clarke, Devoret and Martinis

- Discovery:** The trio discovered that quantum mechanics can be observed on a macroscopic scale, large enough to be held in one's hand, by creating a superconducting circuit with a Josephson junction. This allowed them to demonstrate quantum mechanical tunneling and quantized energy levels.
- Quantum Tunneling:** Quantum tunneling enables particles to pass through seemingly impassable barriers. In this case, the researchers observed Cooper pairs of electrons tunneling through a thin insulating barrier in the electrical circuit.
- Impact on Quantum Computing:** Their discovery laid the foundation for superconducting quantum bits, or qubits, which are crucial components of many quantum computers today. Qubits enable quantum computers to process vast amounts of information exponentially faster than classical computers.
- Experimental Setup:** The researchers sandwiched two superconductors between a thin insulating barrier, creating a Josephson junction. By cooling the material to extreme temperatures, they made it superconducting, allowing Cooper pairs to flow without resistance.



**Foot notes:**  
**About Nobel Prize-**

- **Presented by:** Royal Swedish Academy of Sciences
- **Country:** Sweden

## 2. India's first officially child marriage free district is Balod

- **Zero Child Marriages for Two Years:** The designation was granted after no cases of child marriage were reported in the district for two consecutive years. This status was confirmed following a rigorous verification process.
- **Complete Certification Coverage:** The entire district, including all 436 Gram Panchayats and 9 urban bodies, received formal certificates from the state government, certifying them as child marriage-free.
- **Part of a National Campaign:** Balod's success is a major milestone under the national initiative, 'Child Marriage-Free India' (also known as Bal Vivah Mukta Bharat), which was launched by the Prime Minister in August 2024.
- **Collective Grassroots Effort:** The achievement is credited to the coordinated efforts of the district administration, local representatives, Anganwadi workers, and the community. UNICEF also provided technical support, awareness programs, and monitoring mechanisms.



## 3. The 'Drone Armour' exercise conducted in Arunachal Pradesh

- **Exercise Objective:** The exercise aimed to validate the Army's operational preparedness for fighting in a next-generation, drone-dominated battlefield, and to assess its ability to integrate advanced drone technologies into active combat while developing effective counter-drone measures.
- **Participating Forces:** The exercise involved the Indian Army's Spear Corps under the Eastern Command and the Indo-Tibetan Border Police (ITBP), highlighting the importance of inter-agency collaboration in national security operations.
- **Key Activities:** The exercise included tactical maneuvers, target acquisition, and neutralization operations, with a focus on both active counter-measures (electronic jamming systems and hard-kill drone interceptors) and passive defenses (camouflage, deception, and dispersion tactics).
- **Strategic Importance:** The exercise was conducted in forward areas of eastern Arunachal Pradesh, a region critical to India's national security due to its proximity to the China and Myanmar borders.



**Foot notes:**

**About Arunachal Pradesh-**

- **Governor:** Kaiwalya Trivikram Parnaik
- **Chief Minister:** Pema Khandu
- **Deputy Chief Minister:** Chowna Mein
- **Capital:** Itanagar

**4. BCCI appointed Shubman Gill as Captain of the Indian ODI team**

- **New Leadership:** Shubman Gill, aged 26, has been appointed as India's new ODI captain, replacing Rohit Sharma, who led the team to victories in the 2024 T20 World Cup and the 2025 Champions Trophy.
- **Future-Focused Decision:** The appointment was made with an eye towards the 2027 World Cup, allowing Gill ample time to settle into his new role and prepare the team for the tournament.
- **Shreyas Iyer as Deputy:** Shreyas Iyer has been appointed as Gill's deputy, providing additional support and stability to the team in this transition phase.
- **Rohit Sharma's Legacy:** Rohit Sharma steps down with a stellar captaincy record, having won 42 of his 56 ODIs at a remarkable win percentage of 75%, the highest among Indian captains with over 10 ODI matches.
- **Upcoming Series:** Gill will lead the team in the three-match ODI series against Australia, starting on October 19, followed by a five-match T20 series, marking a significant test for the new captain.



**Foot notes:**

**About BCCI-**

- **President:** Mithun Manhas
- **Headquarters:** Mumbai
- **Founded:** 1928

**5. Linthoi Chanambam Wins India's First-Ever Medal at Judo Junior World Championships**

- **Historic Medal:** Linthoi Chanambam, a 19-year-old judoka from Manipur, won India's first-ever medal at the



Junior World Championships, claiming bronze in the women's -63 kg category.

- **Comeback Story:** Linthoi showed remarkable resilience, having returned to competitive judo earlier this year after being sidelined with an ACL injury for a significant amount of time.
- **Path to Medal:** She fought her way back through the repechage route after losing to Japan's So Morichika in the preliminaries, beating Slovakia's Ilaria Tsurkan in the repechage round and Netherlands' Joni Geilen in the bronze medal match.
- **Winning Moment:** Linthoi secured the historic bronze medal with an impressive ippon, showcasing her technical precision and mental strength under pressure.

## 6. Sanju Samson Named EPL Ambassador for India

- **Appointment:** Sanju Samson, a renowned Indian cricketer, has been appointed as the official ambassador for the English Premier League (EPL) in India, aiming to strengthen the league's presence in the country.
- **Role:** As ambassador, Samson will promote the EPL brand, engage with fans across the nation, and inspire young athletes to take up football, leveraging his dynamic personality and massive fan following.
- **Connection to Football:** A lifelong Liverpool supporter, Samson attributes his love for football to his upbringing in Kerala and his family's footballing background, making him an ideal ambassador for the EPL in India.
- **Association with Kerala Blasters FC:** Samson is already associated with Kerala Blasters FC in the Indian Super League (ISL) as a brand ambassador, reflecting his commitment to promoting football in his home state of Kerala.



## 7. JPMorgan names Conor Hillery and Matthieu Wiltz as new co-CEOs for EMEA

- **New Leadership:** Conor Hillery and Matthieu Wiltz have been promoted as deputy chief executives for EMEA, although it's unclear if they will be co-CEOs as reported, but they are part of Filippo Gori's leadership team.
- **Filippo Gori's Authority:** Filippo Gori, JPMorgan's new CEO for EMEA, is establishing his authority in the business after his predecessor, Vis Raghavan, left for a significant role at Citi in February.





- **Internal Promotions:** Both Conor Hillery and Matthieu Wiltz are internal appointments, indicating JPMorgan's focus on promoting talent from within the company for key leadership roles.
- **Leadership Structure:** While specific details about their roles and responsibilities are limited, their promotions suggest a shared leadership approach under Gori's guidance.

## 8. Dr. Hemant Sharad Pande honoured with 'People Centric Leadership' Award

- **Current Role:** Dr. Hemant Sharad Pande serves as the Director of Personnel at Western Coalfields Limited (WCL), a role he assumed after being Area General Manager at South Eastern Coalfields Limited (SECL).
- **Awards and Recognition:** Although specific details about the "People Centric Leadership" award are not available, Dr. Pande was recognized as the 'Best General Manager' by Coal India Limited in 2022 for his exceptional leadership.
- **Professional Background:** Dr. Pande has over 35 years of experience in the coal industry, with expertise in mining technology, land acquisition, and industrial relations. He has worked on various projects and held leadership positions in companies like WCL and SECL.
- **Previous Experience:** Before joining WCL as Director of Personnel, Dr. Pande was the Area General Manager of Raigarh Area in SECL, where he successfully implemented several projects, including a solar power unit and coal dispatch systems.



## 9. President of India Presents “My Bharat – NSS” Awards for 2022-23

- **Award Ceremony:** President Droupadi Murmu presented the MY Bharat-National Service Scheme (NSS) Awards for 2022-23 at Rashtrapati Bhavan on October 6, 2025, recognizing outstanding contributions of youth in social service, community development, and nation-building.
- **Awardees:** A total of 50 recipients, including 10 NSS Units and their Programme Officers, and 30 NSS Volunteers, received the award for their exceptional service and leadership.
- **Objective:** The MY Bharat-NSS Awards aim to develop the personality and character of students through voluntary community service, fostering social responsibility among youth.



- **Monetary Prizes:** The awardees received monetary prizes, including ₹2 lakh for NSS Units, ₹1.5 lakh for Programme Officers, and ₹1 lakh for NSS Volunteers, along with certificates and silver medals.

## 10. RBI grants SRO status to Finance Industry Development Council

- **First SRO for NBFCs:** FIDC is the first organization officially recognized as an SRO for the general Non-Banking Financial Company (NBFC) sector in India.
- **Extended Regulatory Arm:** It will function as the extended arm of the RBI, aimed at ensuring better regulatory compliance and market discipline among NBFC members.
- **Mandate for Compliance:** Its core role involves framing and enforcing a Code of Conduct and ethical standards, and monitoring member adherence to RBI guidelines.
- **Dispute Resolution Focus:** FIDC is responsible for establishing a grievance redressal and dispute resolution framework for issues within the NBFC community.
- **Part of RBI's New Framework:** The recognition was granted under the RBI's comprehensive 'Omnibus Framework for SROs', signaling a push towards co-regulation in the financial system.



### Foot notes:

#### About RBI-

- **Governor:** Sanjay Malhotra
- **Headquarters:** Mumbai
- **Bank rate:** 5.5 %

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