

Weekly One Liners 06th to 12th of October 2025

Nobel Prize 2025 in Medicine

The 2025 Nobel Prize in Physiology or Medicine has been awarded to Mary E. Brunkow, Fred Ramsdell, and Shimon Sakaguchi for their pioneering discoveries on peripheral immune tolerance — a fundamental mechanism that keeps the human immune system from attacking its own tissues. Their work has not only transformed our understanding of how the immune system is regulated but also opened up new avenues for the treatment of autoimmune diseases, cancer, and transplant rejection.

Nobel Laureates Winner In Physiology Or Medicine 2025

- **Mary E. Brunkow** – Senior Program Manager, Institute for Systems Biology, Seattle, USA.
- **Fred Ramsdell** – Scientific Advisor, Sonoma Biotherapeutics, San Francisco, USA.
- **Shimon Sakaguchi** – Distinguished Professor, Immunology Frontier Research Center, Osaka University, Japan.

Award Citation: “For their discoveries concerning peripheral immune tolerance.”

Their collaborative research identified regulatory T cells (Tregs) — specialized immune cells that act as “security guards” to prevent immune cells from mistakenly attacking the body’s own tissues. This discovery has revolutionized immunology and disease treatment strategies.

Groundbreaking Discoveries in Immune Tolerance

Understanding Peripheral Immune Tolerance

- Our immune system defends the body against countless microbes daily.
- However, it must also distinguish between foreign invaders and the body’s own cells.
- If this balance is disturbed, it can lead to autoimmune diseases, where the immune system mistakenly attacks healthy tissues.
- The laureates’ research focused on how this balance is maintained outside the thymus, a mechanism now known as peripheral tolerance.



Nobel Prize in Physics 2025

The Nobel Prize in Physics 2025 has been awarded to John Clarke, Michel H. Devoret, and John M. Martinis for their groundbreaking discovery of macroscopic quantum mechanical tunnelling and energy quantisation in an electric circuit. Their work proved that quantum phenomena can occur even in large-scale systems, bridging the gap between the quantum and classical worlds and paving the way for advanced technologies like quantum computing, cryptography, and sensors.

Nobel Laureates and Their Contribution

2025 Nobel Physics Winners

- **John Clarke** – University of California, Berkeley, USA
- **Michel H. Devoret** – Yale University, New Haven, CT / University of California, Santa Barbara, USA
- **John M. Martinis** – University of California, Santa Barbara, USA

Research Topic: “For the discovery of macroscopic quantum mechanical tunnelling and energy quantisation in an electric circuit”

Quantum Physics Made Visible: The Breakthrough

The Central Question: Size and Quantum Behavior

- One of the fundamental questions in modern physics is: How large can a system be and still exhibit quantum mechanical effects?
- Traditionally, quantum behavior is observable only at the atomic or subatomic scale.
- However, the 2025 Nobel laureates shattered this boundary by demonstrating quantum phenomena in a macroscopic electrical circuit, proving that the laws of quantum mechanics apply even to systems visible to the naked eye.

What is Quantum Physics?

- Quantum physics, also known as quantum mechanics, is a fundamental branch of physics that explains the behavior of matter and energy at the smallest scales — such as atoms, electrons, and photons.
- Unlike classical physics, which describes predictable and continuous behavior, quantum physics reveals a world where particles can exist in multiple states at once, move through barriers, and exchange energy in discrete packets (called quanta).

The Josephson Junction Experiment

- The laureates constructed an electronic circuit using superconductors, materials that allow current to flow without electrical resistance.
- These superconductors were separated by a thin non-conductive barrier, forming a Josephson junction — a device known for its quantum properties.
- By precisely controlling and measuring the properties of this circuit, they could observe quantum tunnelling and energy quantisation on a macroscopic scale.

Key Discoveries and Insights

1. Macroscopic Quantum Tunnelling

- In quantum mechanics, particles can “tunnel” through barriers that they classically shouldn’t be able to cross.
- In the laureates’ experiment, the entire superconducting system behaved like a single particle, initially trapped in a zero-voltage state.
- Through quantum tunnelling, it escaped this state — a shift detectable by the appearance of a voltage — proving that tunnelling is possible even in large, collective systems.

2. Energy Quantisation

- Quantum systems absorb or emit discrete amounts of energy, not continuous values.
- The team demonstrated that their macroscopic system followed this rule exactly, behaving in accordance with quantum predictions.
- This finding confirmed that quantum principles govern not just electrons and photons, but even collective states involving billions of particles.

Implications for Quantum Technology

This discovery goes beyond theoretical physics — it has practical implications for emerging technologies,

- **Quantum Computing** – Enables stable and controllable qubits for faster computation.
- **Quantum Cryptography** – Paves the way for unbreakable communication systems.
- **Quantum Sensors** – Offers unprecedented precision in measurement and detection.

“It is wonderful to celebrate how century-old quantum mechanics still offers new surprises,” said Olle Eriksson, Chair of the Nobel Committee for Physics. “This discovery opens doors to a future defined by quantum technology.”

Chemistry Nobel 2025

The Nobel Prize in Chemistry 2025 has been awarded to Susumu Kitagawa, Richard Robson, and Omar M. Yaghi for their groundbreaking work in developing metal-organic frameworks (MOFs). These are advanced molecular structures with large cavities that can capture gases, store toxic chemicals, catalyze reactions, and even harvest water from desert air. Their discoveries have opened new possibilities in chemistry and environmental applications.

Nobel Laureates Winners In Chemistry 2025

Sr.No	Laureates Winner Name	Contribution	Affiliation
1	Susumu Kitagawa	Flexible and functional MOFs	Kyoto University, Japan
2	Richard Robson	First spacious molecular constructions	University of Melbourne, Australia
3	Omar M. Yaghi	Stable and customizable MOFs	University of California USA

Key Highlights of Winners

Susumu Kitagawa – Kyoto University, Japan

Research Contribution: Flexible and functional MOFs

- Born in 1951 in Kyoto, Japan.
- PhD from Kyoto University in 1979.
- Developed MOFs that allow gases to flow in and out.
- Predicted the flexibility of MOFs, enabling new chemical applications.

Richard Robson – University of Melbourne, Australia

Research Contribution: First spacious molecular constructions

- Born in 1937 in Glusburn, UK.
- PhD from University of Oxford in 1962.
- Created the first well-ordered MOF using copper ions and organic molecules.
- Demonstrated potential of molecular frameworks for chemical storage and separation.

Omar M. Yaghi – University of California, Berkeley, USA

Research Contribution: Stable and customizable MOFs

- Born in 1965 in Amman, Jordan.
- PhD from University of Illinois Urbana-Champaign in 1990.
- Developed very stable MOFs and introduced rational design for new properties.
- Enabled MOFs to be used for diverse applications like carbon capture and water harvesting.

Nobel Prize in Literature

The Nobel Prize in Literature 2025 has been awarded to László Krasznahorkai, the celebrated Hungarian novelist renowned for his dense, poetic, and apocalyptic prose. The Swedish Academy honored him “for his compelling and visionary oeuvre that, in the midst of apocalyptic terror, reaffirms the power of art.” Krasznahorkai’s works delve into the depths of human despair, chaos, and beauty, marking him as one of the most distinctive voices in contemporary world literature.

About László Krasznahorkai

- **Nationality:** Hungarian
- **Born:** 5 January 1954, Gyula, Hungary
- **Occupation:** Novelist and screenwriter
- **Writing Style:** Long, meditative sentences; apocalyptic imagery; deep philosophical reflection.

Frequent Themes: Isolation, moral collapse, human suffering, redemption through art.

Notable Works

- Satantango (1985)
- The Melancholy of Resistance (1989)
- War and War (1999)
- Seiobo There Below (2008)

Krasznahorkai’s writing is often characterized by long, flowing sentences, a bleak worldview, and an intricate philosophical depth. His collaboration with filmmaker Béla Tarr has also brought his vision to cinematic life, notably through the adaptation of Satantango.

The Nobel Citation and Its Meaning

- The Academy's citation emphasizes how Krasznahorkai's literature captures apocalyptic terror while celebrating art's redemptive power.
- His works challenge readers to confront existential crises, moral decay, and the persistence of hope amid desolation — reaffirming art as a form of salvation.

Significance of the 2025 Nobel in Literature

- Recognizes Hungary's literary contribution on the global stage.
- Highlights the enduring power of literature to address universal human fears and aspirations.
- Underscores the relevance of philosophical fiction in turbulent times.

Nobel Peace Prize 2025

The 2025 Nobel Peace Prize has been awarded to Maria Corina Machado, a fearless advocate of democracy in Venezuela. Recognized by the Norwegian Nobel Committee, Machado has tirelessly fought for democratic rights, free elections, and a peaceful transition from authoritarian rule to democracy. Her dedication to civilian courage and nonviolent resistance has made her a symbol of hope for millions of Venezuelans living under oppression.

About Maria Corina Machado Nobel Peace Prize Winner

- Maria Corina Machado is a prominent Venezuelan politician and activist, renowned for her leadership in the country's democracy movement.
- She has spent decades opposing authoritarianism and defending fundamental democratic principles.

Reason for Award

The Norwegian Nobel Committee awarded Machado the Peace Prize for,

- Her tireless work promoting democratic rights in Venezuela.
- Her leadership in achieving a peaceful transition from dictatorship to democracy.
- Courageous efforts to maintain civilian resistance and democratic values despite threats, harassment, and living in hiding.

Key Contributions

- Founder of Súmate, an organization devoted to democratic development.
- Advocated for free and fair elections for over 20 years.
- Promoted judicial independence, human rights, and popular representation.
- Played a unifying role in Venezuela's divided opposition.
- Acted as a presidential candidate in the 2024 elections, though blocked by the regime.

Significance

- Demonstrates that peace and democracy are intertwined.
- Inspires citizens globally to resist authoritarianism through nonviolent methods.
- Highlights the role of women leaders in defending freedom under repressive regimes.

Challenges Faced

- Venezuela's transition from a democratic to an authoritarian state.
- Deep humanitarian and economic crisis, with millions living in poverty.
- Opposition suppression via legal prosecution, imprisonment, and election rigging.
- Personal threats to life and freedom while continuing activism.

National Affairs

- **Cyclone Shakti Threatens Western Coast:** Severe cyclonic storm Shakti formed in east-central Arabian Sea in October 2025, posing significant threats to coastal ecosystems and infrastructure along Maharashtra and Gujarat coastlines.
- **UIDAI Waives Aadhaar Biometric Fees for Children:** UIDAI exempts mandatory biometric update charges for 6 crore children aged 7-15 years starting 1 October 2025 for one year, ensuring free access to education and welfare schemes.
- **Coal India Inaugurates First All-Women Central Store:** Coal India opens its first all-women operated Central Store Unit at SECL's Korba facility, managed by eight women officers led by IIT-ISM alumna Ms. Sapna Ikka.
- **BRO Creates World Record with Highest Motorable Road:** Border Roads Organisation constructs world's highest motorable road at Mig La Pass in Ladakh at 19,400 feet, surpassing its previous Guinness World Record at Umling La.
- **Cabinet Approves 150th Anniversary Celebration of Vande Mataram:** Union Cabinet announces nationwide celebration of the iconic national song composed by Bankim Chandra Chatterjee in 1882, which holds equal status with Jana Gana Mana since 1950.
- **Indian Peacekeepers Honored by UNISFA:** India's 5,000+ UN peacekeepers serving in Abyei region received recognition for dedicated service, reinforcing India's position as largest contributor to global peacekeeping missions.
- **₹24,634-Crore Railway Multitracking Approved:** Cabinet greenlit four railway projects across Maharashtra, MP, Gujarat, and Chhattisgarh adding 894 route km and boosting freight capacity by 78 million tonnes annually.
- **India Hits Record Solar & Wind Generation:** H1 2025 saw solar output surge 25% to 9.2% of total electricity and wind power jump 29% to 5.1%, cutting emissions by 24 million tonnes.

- **Five Species Conservation Projects Launched:** Union Minister Bhupender Yadav unveiled Project Dolphin Phase II, Project Sloth Bear, Project Gharial, and human-wildlife conflict initiatives during Wildlife Week 2025 in Dehradun.
- **NAKSHA Programme Modernizes Land Records:** DILRMP launches geospatial mapping initiative using GNSS and Web-GIS technology to digitize urban land records, supporting the One Nation, One Land Record vision.
- **e-NAM Platform Expands Commodity Coverage:** National Agriculture Market adds 9 new commodities including Green Tea and Mustard Oil, bringing total to 247, enhancing digital trading and farmer empowerment.
- **NITI Aayog Inaugurates Viksit Bharat Strategy Room:** Opened at LBSNAA Mussoorie as a governance lab integrating real-time data for development decisions, promoting data-driven policymaking among civil servants with focus on health, education, infrastructure, and social development analytics.
- **India's First Bullet Train by August 2027:** Railways Minister Ashwini Vaishnaw announced Mumbai-Ahmedabad High-Speed Rail (508 km, 320 km/h speed) will be operational by August 2027, implemented by NCSRCL with Japan's support as symbol of India's technological progress.
- **National Red List Roadmap Launched (Vision 2025-2030):** Unveiled at IUCN World Conservation Congress 2025 by MoS Kirti Vardhan Singh to create National Red List and Data Book for flora and fauna by 2030, developed with IUCN, ZSI, BSI, aligning with Kunming-Montreal Framework.
- **Buddha's Relics Journey to Russia:** Sacred Buddhist relics from India will be displayed in Kalmykia Republic, Russia from October 11-18, led by UP Deputy CM Keshav Prasad Maurya, marking the first-ever such exposition in the region.
- **Three Ports Designated Green Hydrogen Hubs:** Deendayal Port (Gujarat), V.O. Chidambaranar Port (Tamil Nadu), and Paradip Port (Odisha) have been recognized as Green Hydrogen Hubs under the National Green Hydrogen Mission, advancing India's net-zero goal by 2070.



States in the News

- **Rajasthan's First Namo Biodiversity Park Inaugurated:** Union Environment Minister Bhupender Yadav inaugurated Rajasthan's first 'Namo Biodiversity Park' at Pratap Bandh, Alwar on 5 October 2025, promoting environmental conservation and sustainable living.
- **India's First Cooperative-Run CBG & Potash Project Launched:** Amit Shah inaugurates pioneering Compressed Bio-Gas and Potash Granule Project at Kopargaon's Shankarrao Kolhe Sugar Factory, set to be replicated across 15 cooperative sugar factories in Maharashtra.
- **Patna Metro's First Phase Inaugurated by CM Nitish Kumar:** Bihar Chief Minister launches 3.6-km elevated Priority Corridor from ISBT to Bhootnath Station, ending six-year wait for metro connectivity with three-coach trains carrying up to 900 passengers.
- **Arunachal Pradesh Launches First Commercial Coal Mine:** Union Minister G. Kishan Reddy and CM Pema Khandu inaugurate Namchik Namphuk coal mine in Changlang district with 1.5 crore tonnes reserves, marking major step towards energy security and regional development.
- **Manipur Celebrates Mera Hou Chongba Festival:** Tribal chiefs gathered at Manipur Royal Palace for annual Hill-Valley unity festival led by King Maharaja Sanajaoba Leishemba, featuring traditional ceremonies and cultural exchanges.
- **Eli Lilly Invests \$1 Billion in Telangana:** US pharma giant announced major expansion in Hyderabad to boost manufacturing capacity for diabetes, obesity, Alzheimer's, cancer, and autoimmune disease treatments.
- **Odisha Creates Digital Archive for Jagannath Temple:** State government to establish digital library 'Gyan Yagya Mandap' at Puri to preserve sacred records including Madala Panji and palm-leaf manuscripts for devotees and researchers.
- **PM Modi Inaugurates Navi Mumbai Airport:** ₹19,650 crore greenfield airport project set to become operational by December 2025, boosting trade, tourism, and UDAN Yojana connectivity goals.
- **India's First Battery Swapping Station Launched:** Union Minister Gadkari inaugurates electric truck battery swapping facility in Sonipat, promoting clean logistics, biofuels, and EV infrastructure development.
- **Mumbai One App Revolutionizes Urban Mobility:** PM Modi launches QR-based integrated ticketing platform for metro, bus, and local trains, advancing One Nation, One Mobility initiative.
- **Vibrant Gujarat Regional Conference 2025:** Inaugurated on October 9, 2025, at Ganpat University, Mehsana by CM Bhupendra Patel with 7,100+ MoUs signed for North Gujarat, launching Regional Economic Master Plan targeting USD 3.5 trillion economy and 28 million new jobs by 2035.

- **Kurukshetra Museum Expansion Approved:** The Srikrishna Museum in Kurukshetra will add a fourth block featuring three galleries on Mahabharata sites, the 48-kos region, and Krishna Bhakti movement, incorporating modern technology to boost tourism.
- **Purple Fest 2025 Celebrates Inclusion in Goa:** The 3rd International Purple Fest was inaugurated by Goa Chief Minister Dr. Pramod Sawant, showcasing India's commitment to empowering persons with disabilities through government-NGO collaboration.

International Affairs

- **Bitcoin Reaches Record High Above \$125,000:** Bitcoin surged to all-time high of \$125,245.57, marking eighth consecutive session of gains driven by institutional demand and favorable U.S. regulations under Trump administration.
- **Navratri 2025 Sales Hit Decade-High Record:** Navratri 2025 sales reached decade-high driven by GST reforms, with Maruti Suzuki delivering 165,000 vehicles in first eight days including record 30,000 on Day 1, marking 100% growth.
- **France's PM Sebastien Lecornu Resigns Within 14 Hours:** New Prime Minister steps down just hours after cabinet formation amid widespread opposition, triggering sharp drop in French stocks and euro as political crisis deepens in fragmented parliament.
- **Philippines Launches Southeast Asia's First Coral Cryobank:** Pioneering coral larvae preservation facility uses liquid nitrogen cryopreservation at -196°C to safeguard genetic diversity in Coral Triangle, combating climate-induced bleaching and 14% global coral loss.
- **Iran Approves Currency Redenomination Plan:** Parliament approves removal of four zeros from rial to simplify transactions after hyperinflation over 35%, with two-year preparation period followed by three-year transition phase.
- **Madagascar Appoints Army General as PM:** President Andry Rajoelina named General Ruphin Fortunat Zafisambo as Prime Minister amid escalating youth-led protests over water shortages and corruption.
- **WHO Reports 15 Million Teen Vapers Globally:** World Health Organization flags alarming trend with youths vaping nine times more than adults, driving new wave of nicotine addiction despite declining traditional tobacco use.
- **WTO Slashes 2026 Trade Growth Forecast:** Global goods trade projection cut to 0.5% from 1.8% due to U.S. tariff impacts, while 2025 outlook raised to 2.4% citing stronger macroeconomic conditions.
- **Ancient Human-Faced Pillar Discovered in Türkiye:** 12,000-year-old Neolithic artifact unearthed at Karahantepe site reveals early artistic expression and spiritual beliefs of ancient civilizations.
- **California Declares Diwali State Holiday:** Third US state to officially recognize Diwali, honoring Indian-American community contributions and cultural significance.

- **Israel-Hamas Ceasefire Agreement Announced:** U.S. President Donald Trump unveiled the first phase of Gaza ceasefire on October 9, 2025, featuring hostage release, partial troop withdrawal, humanitarian corridors, and prisoner exchange mediated by Egypt, Qatar, and the U.S.
- **UK PM Keir Starmer's Historic India Visit:** British Prime Minister strengthened India-UK Comprehensive Strategic Partnership with 12 major outcomes including Joint AI Centre, Connectivity & Innovation Centre, UK university campuses in Bengaluru and GIFT City, and enhanced clean energy cooperation.
- **India-UK Joint Statement 2025:** Issued on October 9, 2025, focusing on CETA ratification, defence collaboration, clean tech innovation, UK's support for India's UN Security Council seat, and joint initiatives on AI, 6G, and climate finance.
- **India-UK Launch £24 Million Tech Centre:** India and UK jointly established the Connectivity & Innovation Centre with £24 million investment focusing on AI-driven telecom, 6G technologies, and cybersecurity under the Technology Security Initiative.

Agreements/MoUs Signed

- **DDWS Partners with BISAG-N for Rural Water Platform:** Department of Drinking Water & Sanitation collaborates with BISAG-N to develop GIS-integrated decision-support system for Jal Jeevan Mission and Swachh Bharat Mission, enabling real-time monitoring of rural piped water supply schemes.
- **NCB-RRU Partnership Against Cyber Drug Crimes:** Narcotics Control Bureau and Rashtriya Raksha University sign MoU to strengthen training, research, and combat cyber-enabled narcotics trafficking.
- **AIIA Advances Ayush Insurance Coverage:** All India Institute of Ayurveda is enhancing Ayush insurance schemes through its Project Management Unit and fostering research collaboration with institutions like MRIIRS to integrate traditional medicine with mainstream healthcare.
- **Bharat Taxi Launch Announced for December:** National e-Governance Division partnered with Sahakar Taxi Cooperative to launch India's first cooperative-driven ride-hailing platform in December 2025, backed by IFFCO, AMUL, and NABARD.

Banking/Economy/Business News

- **India Launches UPI at Qatar Supermarkets:** UPI system rolls out at Lulu Group supermarkets following Hamad International Airport launch, enabling 830,000 Indians in Qatar to access faster, cheaper remittances through NIPL-QNB-NETSTARS collaboration.
- **RBI Grants SRO Status to FIDC for NBFC Sector:** Finance Industry Development Council receives Self-Regulatory Organisation recognition to enhance industry discipline and customer protection in NBFC sector accounting for nearly one-third of India's lending.

- **RBI Unveils Four Major Banking Reforms:** Reserve Bank proposes risk-based deposit insurance premiums, Expected Credit Loss framework from April 2027, revised Basel III norms for MSMEs and home loans, and eased investment regulations.
- **NPCI Launches Biometric UPI Authentication:** National Payments Corporation introduced facial recognition, fingerprint, and voice-based payment verification for UPI transactions, enhancing security and accessibility for senior citizens and rural users.
- **PayPal Integrates UPI as First Global Partner:** CEO Alex Chriss announced India's UPI as inaugural payments system partner in PayPal World platform, expanding cross-border payment capabilities on October 7, 2025.
- **World Bank Raises India's FY26 Growth to 6.5%:** Revised forecast from 6.3% citing strong domestic demand, rural recovery, and GST reforms, reaffirming India as world's fastest-growing major economy despite lowered FY27 projection.
- **Chemistry Nobel 2025 Awarded for MOF Research:** Susumu Kitagawa, Richard Robson, and Omar Yaghi honored for pioneering metal-organic frameworks capable of gas capture, chemical storage, and water harvesting applications.
- **RBI Launches Retail Sandbox for Digital Rupee:** Central bank opens testing environment for fintech companies to develop CBDC solutions, with over 7 million users already enrolled in e-rupee pilot.
- **HDFC Bank Launches 'My Business QR':** Unveiled at Global Fintech Fest 2025 Mumbai, enabling small merchants to create digital storefront through single QR code, developed with Vyaparify and integrate **Global Fintech Fest 2025 Mumbai:** 6th edition inaugurated by Finance Minister Nirmala Sitharaman at Jio World Centre with theme "Empowering Finance for a Better World Powered by AI," attended by PM Modi and UK PM Starmer, hosting 7,500 companies, 400 exhibitors, and 70 global regulators from 75 nations.
- **Bharat AI Experience Zone at GFF 2025:** Developed by NPCI and NVIDIA demonstrating AI-driven payment systems with live demos of AI-enabled UPI, fraud prevention, and risk management tools, promoting India's digital public infrastructure model internationally.
- **India-UK Climate Finance Initiative:** Both nations launched joint Offshore Wind Taskforce and Climate Tech Start-up Fund supporting innovation in AI-driven clean energy and green investments, aligned with Global Clean Power Alliance objectives.
- **Castrol India MD Steps Down:** Kedar Lele will resign as Managing Director on December 31, 2025, with Saugata Basuray appointed as Interim CEO from January 1, 2026.
- **Rishi Sunak Joins Tech Giants as Adviser:** Former UK PM Rishi Sunak has been appointed paid senior adviser at Microsoft and Anthropic, focusing on global strategy with all proceeds going to charity.

Appointments/Resignations

- **JPMorgan Names New EMEA Co-CEOs:** Investment banking giant appoints Conor Hillery and Matthieu Wiltz as co-CEOs for Europe, Middle East, and Africa region, targeting 20% revenue boost by 2030 with their combined 50 years of experience.
- **Sanju Samson Becomes EPL Ambassador for India:** Indian cricketer and Liverpool FC fan appointed as English Premier League's official ambassador in India, bridging cricket and football cultures particularly in Kerala's football hub.
- **Shubhanshu Shukla Named Buildathon 2025 Ambassador:** First Indian to reach ISS appointed to inspire 1 crore students across 1.5 lakh schools for Ministry of Education's innovation initiative focused on self-reliance themes.
- **Khaled El-Enany Set to Lead UNESCO:** Egypt's former Tourism Minister backed by UNESCO Executive Board on October 6, 2025, to become first Arab Director-General pending November General Conference confirmation.
- **Blackstone Names Apurva Shah India Credit Head:** Global investment firm appoints new leader to drive private credit expansion and growth strategy across Asia-Pacific region.

Defence News

- **ICGS Akshar Commissioned to Indian Coast Guard:** Fast Patrol Vessel ICGS Akshar commissioned on 4 October 2025 at Karaikal, built indigenously by Goa Shipyard with 60% indigenous content achieving speeds up to 27 knots.
- **Exercise Konkan 2025 Begins with India-UK Naval Drill:** India-UK bilateral naval exercise Konkan-2025 commenced on 5 October 2025 off western coast, featuring INS Vikrant and HMS Prince of Wales with participation from Norway and Japan till 12 October.
- **Indian Coast Guard Conducts 10th NATPOLREX:** Indian Coast Guard's 10th National Level Pollution Response Exercise conducted off Chennai coast with participation from 40 foreign observers from 32 countries, focusing on marine oil spill preparedness.
- **INS Androth Commissioned into Indian Navy:** Second Anti-Submarine Warfare Shallow Water Craft with 80% indigenous content commissioned at Visakhapatnam on October 6, featuring advanced weapons, sensors, and three waterjet propulsion systems for coastal defense.
- **DRDO Releases IRSA 1.0 Standard:** Indian Radio Software Architecture launched on October 6, 2025, establishing national framework for military radio interoperability through Software Defined Radios with standardized APIs and interfaces.
- **India-Australia Defence Agreements:** Signed during Defence Minister Rajnath Singh's Canberra visit strengthening military cooperation, cybersecurity, maritime security, emphasizing joint exercises and defence technology collaboration aligned with Atmanirbhar Bharat and Indo-Pacific Strategy.

- **Indian Army Launches SAKSHAM Counter-UAS Grid:** Situational Awareness for Kinetic Soft and Hard Kill Assets Management developed with Bharat Electronics Limited Ghaziabad, designed to detect and neutralize drone threats in real-time through Army Data Network.
- **Defence Manufacturing Collaboration with Australia:** India invited Australian defence firms to co-develop under Make in India focusing on R&D, aerospace, naval systems, exploring export collaboration and supply chain diversification building on AUSINDEX and 2+2 Ministerial Dialogues.
- **Historic India-UK Naval Exercise Completed:** Indian Navy's INS Vikrant and UK's HMS Prince of Wales conducted their first combined Carrier Strike Group exercise during Exercise Konkan 2025 (October 5-9), with support from Norwegian and Japanese ships.

Awards and Recognitions

- **Nobel Prize in Medicine 2025 Awarded for Immune Tolerance Research:** 2025 Nobel Prize in Physiology or Medicine awarded to Mary E. Brunkow, Fred Ramsdell, and Shimon Sakaguchi for groundbreaking discoveries on regulatory T cells and Foxp3 gene.
- **Nobel Prize in Physics 2025 Awarded to Three Scientists:** John Clarke, Michel H. Devoret, and John M. Martinis receive prestigious honor for discovering macroscopic quantum mechanical tunnelling and energy quantisation in electric circuits, foundational work for quantum computing.
- **President Murmu Presents MY Bharat-NSS Awards 2022-23:** President of India honors exceptional youth contributions in social service and community development at Rashtrapati Bhavan, recognizing National Service Scheme achievements from 2022-23.
- **László Krasznahorkai Wins 2025 Nobel Prize in Literature:** Hungarian author honored for visionary apocalyptic prose and exploration of art's transformative power in contemporary world.
- **Maria Corina Machado Wins Nobel Peace Prize 2025:** Venezuelan democracy activist and Súmate founder honored by Norwegian Nobel Committee for her nonviolent struggle for democracy and efforts to unite opposition while promoting human rights and women's leadership.
- **Sherry Singh Crowned Mrs Universe 2025:** Indian representative won prestigious title in Manila, Philippines, becoming first Indian to win the international pageant with advocacy theme of women's empowerment and mental health awareness.
- **Times Higher Education World University Rankings 2026:** Released on October 9, 2025, featuring 1,900+ universities from 108 countries with Oxford retaining #1 position for 10th consecutive year; India ranked 2nd globally with 128 institutions led by IISc Bengaluru (201-250 band).

Summits and Conferences News

- **Viksit Bharat Buildathon 2025 Engages 1 Crore Students:** Ministry of Education launched nationwide innovation initiative Viksit Bharat Buildathon 2025 engaging over 1 crore students from Classes 6-12, with live innovation event scheduled on 13 October 2025.
- **68th Commonwealth Parliamentary Conference in Barbados:** Indian Parliamentary delegation led by Lok Sabha Speaker Om Birla will attend 68th Commonwealth Parliamentary Conference in Barbados from 5-12 October 2025, addressing "The Commonwealth: A Global Partner".
- **PM Modi to Inaugurate India Mobile Congress 2025:** Prime Minister to launch Asia's premier telecom event from October 8-11 at Yashobhoomi, Delhi, featuring 1.5 lakh visitors, 7,000+ global delegates, and focus on 6G, AI, cybersecurity, and satellite communication.
- **India to Unveil First Red List at IUCN Congress:** Union Minister Kirti Vardhan Singh to present inaugural endangered species list at World Conservation Congress 2025 in Abu Dhabi from October 9-15.
- **India to Host 8th International Solar Alliance Assembly:** New Delhi prepares to welcome 124 member countries for global summit focused on accelerating solar energy cooperation and climate action.
- **PM Modi Inaugurates India Mobile Congress 2025:** Flagship telecom event showcases India's telecommunications growth, 5G success, and Aatmanirbhar Bharat achievements in digital infrastructure.
- **Delhi Declaration Shapes COP30 Agenda:** The Delhi Declaration adopted at ARISE Cities Forum 2025 unites Global South cities to strengthen urban climate leadership, demanding direct climate finance access and multilevel cooperation ahead of COP30 in Belém.

Sports News

- **Nishad and Simran Win Gold at Para Athletics Worlds:** At World Para Athletics Championships 2025 in New Delhi, Nishad Kumar set Asian record in men's high jump T47 (2.14m) while Simran Sharma clocked personal best 11.95s in women's 100m T12.
- **BWF World Junior Championships 2025 Hosted in Guwahati:** BWF World Junior Championships return to India after 17 years, hosted in Guwahati from 6-19 October with 36 teams competing for Suhandinata Cup using new best-of-three relay-scoring format.
- **India Achieves Best-Ever Medal Haul at Para Athletics Worlds:** India secured best-ever performance at World Para Athletics Championships 2025 with 18 medals (6 gold, 7 silver, 5 bronze), surpassing previous tally of 17 from Kobe, Japan.

- **Bumrah Creates Indian Fast Bowling History:** Jasprit Bumrah became the first Indian pacer to play 50 Test matches and achieve 50+ appearances across all three formats during the second Test against West Indies in Delhi, joining elite players like Dhoni and Kohli.

Schemes and Committees News

- **PM SETU Scheme Launched for ITI Modernization:** Prime Minister Narendra Modi launched PM SETU Scheme on 4 October 2025 with ₹60,000 crore investment to upgrade 1,000 ITI institutes nationwide, benefiting 2 million youth over five years.
- **Amit Shah Launches 'Mhaje Ghar' Scheme in Goa:** Union Home Minister unveils landmark initiative granting ownership rights to nearly 11 lakh residents living on government and community lands, alongside projects worth ₹2,452 crore for infrastructure and digital services.

Science and Technology News

- **Vyommitra: India's Humanoid Robot for Gaganyaan Mission:** ISRO developed Vyommitra, India's first semi-humanoid robot equipped with AI, voice recognition, and gesture capabilities to support uncrewed test flights before India's first human spaceflight in 2027.
- **India-AI Impact Summit 2026 Logo Unveiled:** Government revealed design by Ajith P. Suresh featuring Ashoka Chakra and neural network elements, selected from 599 entries for February 19-20, 2026 summit at Bharat Mandapam.
- **IBM-Anthropic Partnership Brings Claude to Enterprises:** Strategic collaboration integrates Claude LLM into enterprise software tools, enhancing productivity and security for global businesses.
- **Google Expands Opal AI Builder to India:** No-code app development platform launched in 15 countries including India, enabling natural language-based application creation for non-technical users.
- **Amit Shah Adopts Zoho Mail for Government Use:** Union Home Minister's switch to indigenous email platform promotes Swadeshi technology and reduces dependence on foreign digital platforms.

Important Days News

- **World Habitat Day 2025 Focuses on Urban Crisis Response:** World Habitat Day observed on 6 October 2025 with theme "Urban Crisis Response", addressing climate change, conflicts, and inequality while promoting resilience and sustainable housing under SDG 11.
- **World Cerebral Palsy Day 2025 Promotes Inclusion:** World Cerebral Palsy Day observed on 6 October with theme "Unique and United", raising awareness about cerebral palsy affecting approximately 1.8 crore people worldwide and promoting rights and inclusion.

- **World Cotton Day Observed on October 7:** UN-recognized day celebrates cotton's vital role as global commodity grown in 75+ countries, highlighting job creation, economic stability, and sustainable trade especially in least-developed countries.
- **Valmiki Jayanti 2025 Celebrated:** Birth anniversary of Maharishi Valmiki, Sanskrit's Adi Kavi (first poet) and Ramayana author, honored on October 7 for his profound contributions to Hindu culture and teachings on social justice.
- **Indian Air Force Day 2025 Celebrated:** October 8 commemoration marks IAF's 1932 founding with air shows and parades highlighting modernization efforts, 7 operational commands, and career pathways through NDA and AFCAT.
- **World Mental Health Day 2025:** Observed globally on October 10 with theme "Access to Services – Mental Health in Catastrophes and Emergencies," focusing on psychological support during disasters, wars, and pandemics, initiated by WFMH in 1992 and supported by WHO.
- **National Post Day 2025:** Celebrated on October 10 as part of National Postal Week (October 9-15) with theme "#PostForPeople: Local Service, Global Reach," honoring India Post's 150-year legacy and launching new initiatives under India Post Payments Bank.
- **National Postal Week 2025:** Celebrated from October 9-15 with daily observances including Philately Day, Banking Day, Mail Day, and Antyodaya Day, promoting postal digitalization, rural outreach, sustainability, and youth participation through postal innovation programs.

Obituaries News

- **Varinder Singh Ghuman Passes Away:** Renowned Punjabi actor and professional bodybuilder died on October 9, 2025, in Amritsar aged 41, Mr India 2009 winner known for vegetarian bodybuilding advocacy and films like Tiger 3, Roar: Tigers of Sundarbans, and Marjaavaan.

