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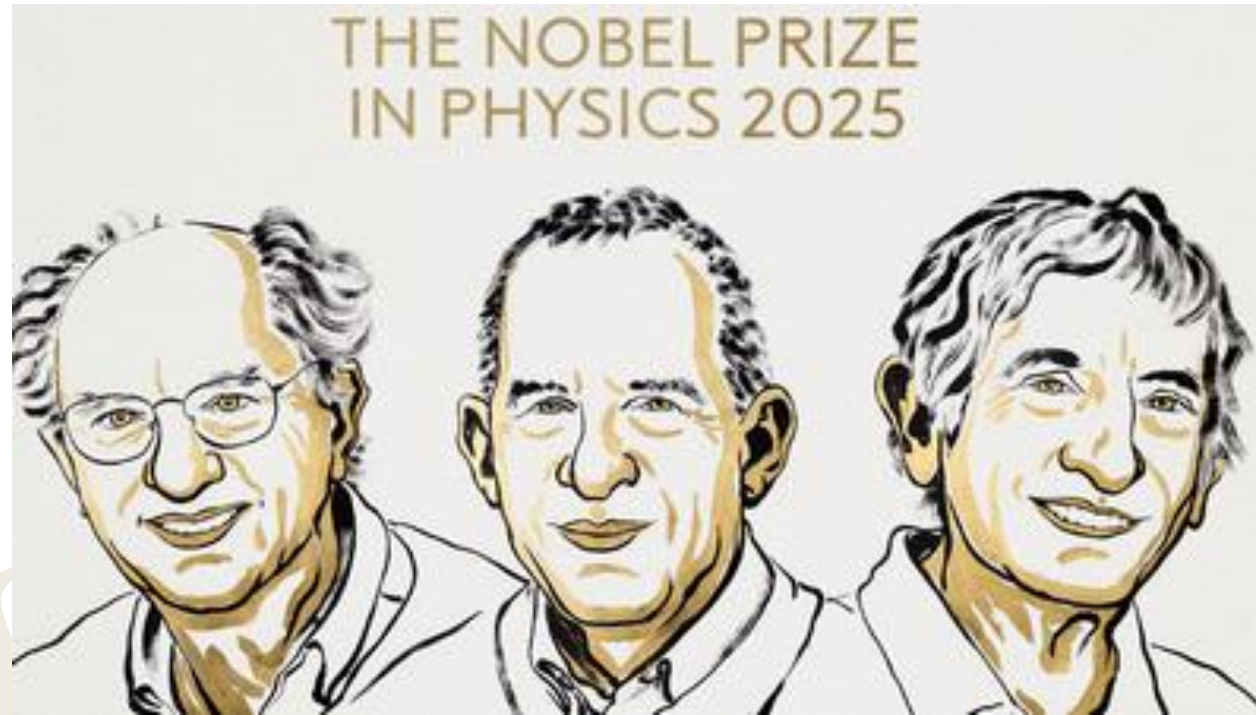
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2025 Physics Nobel for Quantum Tunnelling Device



- The Nobel Prize in Physics 2025 was awarded to **John Clarke, Michel Devoret, and John M. Martinis**.
- They were honored for building a **device demonstrating quantum tunnelling**.
- Their experiments helped understand how particles behave at the **quantum level**.
- They used **Josephson junctions** to show tunnelling and energy quantisation in superconducting circuits.
- Their research laid the foundation for **quantum computers, sensors, and precision measurement technologies**.
- The device proved that **single particles can tunnel through barriers**, something impossible in classical physics.
- Their findings connected earlier theoretical concepts of tunnelling to **real, practical applications**.
- This breakthrough strengthens future development in **quantum technologies and superconducting electronics**.

About Nobel Prize:

- The Nobel Prize is one of the most prestigious international awards, established by the will of Alfred Nobel, the Swedish inventor of dynamite, in 1895. It is awarded annually to individuals or organizations that have made outstanding contributions in the fields of:
 - Physics – for groundbreaking discoveries in the physical sciences.
 - Chemistry – for exceptional achievements in chemistry.
 - Physiology or Medicine - for discoveries that have advanced medical science and human health.
 - Literature – for distinguished literary work.
 - Peace – for efforts in promoting global peace and resolving conflicts.
- Later, in 1968, the Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel was added for contributions to economics.
- The first Nobel Prizes were awarded on December 10, 1901.
- Key Features:
 - Winners are called Nobel Laureates
 - Each prize consists of a medal, a diploma, and a cash award.
 - The awards are usually announced in October and presented on December 10, the anniversary of Alfred Nobel's death.
 - The prizes recognize achievements that benefit humanity and have a lasting impact on society.

Sanae Takaichi set to become Japan's first female Prime Minister

- Sanae Takaichi is expected to make history by becoming Japan's first female Prime Minister on the 15th October.
- Sanae Takaichi has been chosen as the new leader of Japan's ruling Liberal Democratic Party.
- Takaichi defeated Agriculture Minister Shinjiro Koizumi in a decisive runoff vote.
- She received 185 votes, while Koizumi got 156.
- The runoff vote was required after no candidate secured a clear majority in the initial voting round.
- The leadership election was held following the resignation of Prime Minister Shigeru Ishiba last month.
- Other contenders for the position included former LDP Secretary-General Toshimitsu Motegi, Chief Cabinet Secretary Yoshimasa Hayashi, and Takayuki Kobayashi.
- Before this victory, Takaichi held the post of Economic Security Minister in the Japanese government



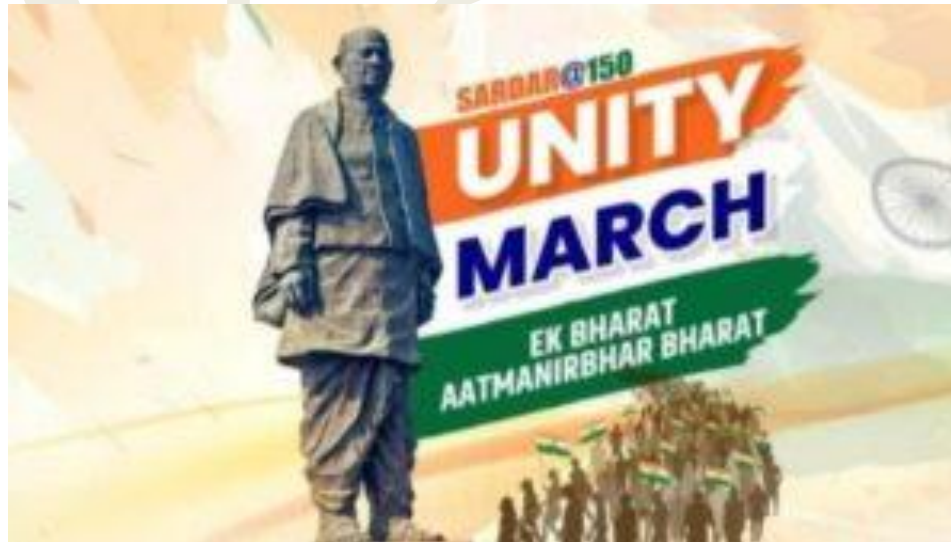
6th Global Fintech Fest 2025 begins in Mumbai

- The sixth Global Fintech Fest (GFF) started in Mumbai on 7 October 2025
- Finance Minister Nirmala Sitharaman attended the opening session.
- This year's theme is 'Empowering Finance for a Better World Powered by AI'.
- Prime Minister Narendra Modi will deliver a keynote address on 9 October 2025.
- UK Prime Minister Keir Starmer is also expected to speak at the event.
- Both leaders will meet with policymakers, innovators, and industry experts.
- A key highlight is the Bharat AI Experience Zone by NPCI and NVIDIA.
- Over 400 exhibitors will showcase their fintech innovations.
- The event will also include workshops and hackathons.
- Fintech awards will recognize innovation and impact in the sector.
- Several networking events are planned throughout the fest.
- The goal is to create a platform for ideas, technology, and collaboration.
- The three-day event is being held at the Jio World Centre in Mumbai.
- More than one lakh attendees are expected to visit. Over 7,500 companies will take part in the event.



Sardar@150 Unity March launched in New Delhi

- Sardar@150 Unity March launched by Youth Affairs and Sports Minister Dr. Mansukh Mandaviya in New Delhi.
- The event marks the 150th birth anniversary of Sardar Vallabhbhai Patel.
- Dr. Mandaviya described the march as a nationwide effort to actively involve the youth in shaping the nation's future.
- It aligns with the broader goals of building a developed and self-reliant India.
- The initiative is designed to instill a sense of national unity, patriotism, and civic duty among young citizens.
- It promotes the ideals of self-sufficiency and the swadeshi movement.
- The campaign embodies the essence of Ek Bharat Shreshtha Bharat.
- The first stage of the march will take place across all districts from October 31 to November 25 this year.
- Sardar Vallabhbhai Patel was born on 31st October 1875. His birthplace is Nadiad in Gujarat.
- He played a key role in India's freedom movement. He unified more than 560 princely states into the Indian Union.
- This was achieved in a very short period. He is popularly called the "Iron Man of India."



CPA India Region Zone-III Plenary Conference in Kohima – November 2025

- The Commonwealth Parliamentary Association (CPA) India Region Zone-III Plenary Conference is scheduled to be hosted in Kohima in November 2025.
- Nagaland Legislative Assembly Speaker Sharingain Longkumer met Lok Sabha Speaker Om Birla in New Delhi to discuss preparations.
- Longkumer briefed the Lok Sabha Speaker on the ongoing arrangements and significance of the conference.
- The event is expected to promote cooperation and dialogue among the Northeastern states.
- Speaker Om Birla expressed his keen interest in attending and supporting the conference in Kohima.
- Birla conveyed that the platform should be utilized for deliberating on key policy issues affecting the region.
- The Lok Sabha Speaker congratulated the Nagaland Legislative Assembly for organizing the upcoming plenary event.
- He also emphasized the importance of strengthening parliamentary engagement within the North East.



BWF World Junior Badminton Championships 2025 Kick Off in Guwahati – Returns to India After 17 Years

- The BWF World Junior Badminton Championships returned to India after 17 years.
- On 6 October, the BWF World Junior Mixed Team Championships 2025 began in Guwahati with India defeating Nepal 45-18, 45-17.
- The championship has returned to India after a gap of 17 years and will continue till October 19.
- The first phase of the tournament features 36 teams competing for the Suhandinata Cup in the mixed team event.
- The second phase will include the individual championships for the Eye-Level Cup.
- India has been placed in Group H alongside UAE, Sri Lanka, and Nepal in a new relay-scoring format.
- Each set in the new format will be played as a race to 45 points across a best-of-three system.
- Players from top badminton nations including China, Japan, Indonesia, and Denmark have arrived in Guwahati.
- India has previously won 11 individual medals in the history of the championships, with its best performance coming in Pune in 2008 when it won a gold and a bronze medal.
- With this edition, India has become the fourth Asian country to host the Junior World Championships twice.
- The tournament, also known as the Suhandinata Cup, will conclude on October 11, followed by the individual BWF World Junior Championships from October 13 to 19 at the same venue.



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Agreement signed between DDWS and BISAG-N to enhance digital monitoring of rural water and sanitation schemes

- On 6 October, a Memorandum of Agreement signed between the Department of Drinking Water and Sanitation and Bhaskaracharya National Institute for Space Applications and Geo-informatics (BISAG-N).
- The collaboration aims to develop a GIS-integrated decision-support platform for Jal Jeevan Mission and Swachh Bharat Mission.
- The platform will strengthen digital monitoring, planning, and evaluation of rural water and sanitation projects.
- The MoA was exchanged by JJM Joint Secretary Swati Meena Naik and BISAG-N Special Director General Vinay Thakur.
- The event was chaired by DDWS Secretary Ashok K.K. Meena, who emphasized the need for transparency and accountability.
- It was stated that the integration of geospatial technologies will enhance efficiency in mission implementation.
- The platform will support mapping of rural piped water schemes and enable household-level monitoring.
- BISAG-N will provide end-to-end technical support, including database design, map creation, and software development.
- The initiative will align with the PM GatiShakti National Master Plan for integrated infrastructure planning.
- According to the Ministry, this collaboration supports the Digital India vision by building a robust data ecosystem for rural development.



NITI Aayog urged to boost manufacturing as India's trade reaches \$1.73 trillion in FY25

- NITI Aayog CEO B.V.R. Subrahmanyam launched the Trade Watch Quarterly Report for Q4 of FY2025 in New Delhi.
- During the launch, he emphasized the need to strengthen and diversify India's manufacturing base.
- It was stated that improving manufacturing competitiveness is essential for sustained trade growth.
- Subrahmanyam highlighted the need for India to adapt to evolving global demand and diversify its export base.
- Focus was also placed on enhancing competitiveness in non-leather footwear and global value chains.
- The report revealed that India's total trade stood at \$1.73 trillion in FY25, reflecting a 6% year-on-year growth.
- Exports were recorded at \$823 billion, while imports reached \$908 billion during the same period.
- Services exports achieved a record \$387.5 billion, showcasing India's growing strength in the service sector.
- The report also recommended expansion of apprenticeship-based training and R&D for design innovation.
- It assessed the leather and footwear sector, which employs 4.4 million people and contributes significantly to India's exports.



The 69th edition of the National School Games has officially started in Jammu & Kashmir

- The tournament is being hosted by the Directorate of Youth Services & Sports, J&K.
- Student athletes from across India have gathered to compete. Thirty teams are participating.
- These teams represent various States and Union Territories.
- The games include Football, Wushu, Taekwondo, and Table Tennis.
- Matches will be held at six different venues across the region.
- Chief Minister Omar Abdullah inaugurated the event in Srinagar.
- He launched a ceremonial football at TRC Football Ground to mark the opening.
- In the opening football match, J&K's Under-19 team defeated Karnataka.
- They won the match by a margin of three goals.
- West Bengal also played at the TRC Ground. They narrowly defeated the Delhi team by one goal.
- Another match was held at Kashmir University Grounds, where Maharashtra and Vidya Bharat ended their match in a draw.
- Meghalaya played against Chhattisgarh at the same venue. Meghalaya emerged victorious in that match.



Kotak Committee's Four-Pillar Strategy for Boosting Indian Shrimp Exports

- Due to high tariffs in the US, Indian shrimp exports have declined.
- Apart from the US, competition is increasing in markets like China, Japan, the EU, UK, South Korea, and Russia.
- China is the second-largest importer, but prices for Indian shrimp there are falling.
- The European Union gives more importance to value-added products.
- In Japan, there is high demand for Ready-to-Eat (RTE) and Ready-to-Cook (RTC) products.
- The strategy focuses on reducing farmers' costs, finding new markets, diversifying products, and increasing domestic consumption.
- Global markets emphasize quality and traceability of shrimp production.
- The report suggests subsidies for farmers, technological support, market expansion, product diversification, and strict quality traceability standards.



Andhra Pradesh Launches 'Auto Driverla Sevalo' Scheme

- Andhra Pradesh CM N. Chandrababu Naidu launched the 'Auto Driverla Sevalo' scheme, providing ₹15,000 annual financial assistance to over 2.9 lakh auto, cab, and maxi cab drivers affected by the state's Stree Shakti free bus travel initiative.
- For the financial year 2025–26, the state government will disburse ₹436 crore directly into beneficiaries' bank accounts, reaffirming its commitment to driver welfare and livelihood support.
- Naidu announced plans to convert all public transport vehicles to electric, assured no harassment of drivers, and highlighted ongoing road repairs worth ₹3,400 crore to improve conditions across 23,000 km of roads.

About Andhra Pradesh:

- **Capital** – Amaravati
- **Chief Minister** – N Chandrababu Naidu
- **Deputy CM** – Pawan Kalyan
- **Governor** – Abdul Nazeer



Navi Mumbai International Airport to Be Renamed 'Loknete D. B. Patil Navi Mumbai International Airport'

- **Maharashtra Chief Minister Devendra Fadnavis** announced that **Navi Mumbai International Airport** will be named **after late Loknete D. B. Patil**, with approval from Prime Minister Narendra Modi.
- The state government has also proposed renaming Pune Airport after Jagadguru Sant Tukaram and Chhatrapati Sambhaji Nagar Airport after Chhatrapati Sambhaji Maharaj, with approvals expected soon under the new central naming policy.
- Fadnavis stated that cases registered against protestors during the airport naming agitation will be withdrawn to ensure they do not hinder employment opportunities at the airport.



Sanju Samson Appointed as Official Ambassador of English Premier League (EPL) in India

- **Indian cricketer Sanju Samson** has been appointed as the **official ambassador for the English Premier League (EPL) in India**, marking the league's effort to strengthen its presence in the Indian subcontinent.
- During his ambassadorial duties, Samson met former England and Liverpool striker Michael Owen at a fan engagement event in Mumbai, reflecting the EPL's growing fan culture in India.
- Samson, who is also the brand ambassador for Kerala Blasters FC (ISL), aims to promote football in Kerala and inspire youth by bridging the gap between cricket and football through his dual sporting influence.

Recent Brand Ambassador:

- Shubhanshu Shukla – Viksit Bharat Buildathon 2025
- Mohammed Siraj – Skechers India
- Alia Bhatt- Denim brand Levi's
- Abhinav Bindra – International Olympic Committee (IOC) Mental Health Ambassadors
- Madhuri Dixit – Odisha state's handloom industry

