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## Dear Students,



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## International Year of Quantum Science and Technology

- ◆ It marks **100 years** since Werner Heisenberg's 1925 paper that initiated the development of **quantum mechanics**.
- ◆ Google's '**Willow**' is a **quantum chip** marking a milestone in quantum computing.
- ◆ **Quantum chips use qubits** that can exist in superposition, unlike classical bits (0 or 1).



## Internet of Things (IoT)

- ◆ **Applications in sectors** like agriculture (e.g., Fasal), healthcare (e.g., Apple Watch), and transport (e.g., FASTag).
- ◆ **Initiatives include** Smart Cities Mission, Centre of Excellence for IoT, and NM-ICPS.
- ◆ **Challenges include** security risks, e-waste, power consumption, and lack of interoperability among devices.



## Robotics Technology

- ◆ **India ranks 7th globally** in robot installations (World Robotics 2024).
- ◆ **Used in healthcare** (SSI Mantra), education (Manav), defence (Daksha), and space (Vyom Mitra).
- ◆ **Challenges include** high cost, limited R&D, and ethical concerns like job displacement.



## Brain-Computer Interfaces (BCIs)

- ◆ **BCIs convert brain signals into commands** for devices, aiding communication and control.
- ◆ **Challenges include signal interference**, brain tapping risks, and ethical concerns.



## Organ-on-chip (OoC) Technology

- ◆ **Organ-on-chip technology**, expected to be worth around **\$1.4 billion** by 2032.
- ◆ **Organ-on-Chip devices** recreate human organs and diseases using microfluidic technology.
- ◆ **OoC allows researchers** to simulate human physiology in a lab dish using 3D culture systems.
- ◆ It forms part of **New Approach Methods (NAMs)** aimed at reducing animal testing.



## Blockchain Technology

- ◆ **Applications:** Crypto (Bitcoin), Voting (Remote voting), IP protection (ResonanceIP), Health Records (EHR).
- ◆ **Key initiatives include** National Blockchain Strategy, Vishvasya Stack, and Centre of Excellence by NASSCOM.
- ◆ **Challenges include** interoperability issues, high energy consumption, and lack of skilled workforce.



## Deepfakes

- ◆ **Deepfakes are AI-generated videos/images** that blur the line between real and fake content.
- ◆ **US introduced the Take It Down Act** to tackle harmful deepfake content.
- ◆ **India uses IT Act, 2000 and CERT-In advisories** but lacks specific deepfake legislation.





## Big Data

- ◆ **India joined UN-CEBD** to align its big data efforts with international standards.
- ◆ **Big Data includes** structured, unstructured, and mixed datasets needing new analytics tools.
- ◆ **Applications** span healthcare, logistics, education, smart cities, and earth sciences.



## Supercomputers

- ◆ **National Supercomputing Mission (NSM)** aims for a network of supercomputers with **45 PetaFlops** capacity.
- ◆ **PARAM and AIRAWAT systems** support cancer research, weather forecasting, and governance.
- ◆ **Challenges include** energy demand, cooling requirements, and foreign dependency.



## 4D Printing

- ◆ **India developed 4D-printed artificial blood vessels** for advanced medical grafts.
- ◆ **4D printing extends** 3D printing by allowing objects to change over time via stimuli.
- ◆ **Applications include** drug delivery, soft robotics, and adaptive aerospace parts.



## Genetically Modified Organism (GMO)

- ◆ **A GMO is a plant, animal, or microbe** with an altered genome, typically modified through genetic engineering to change its trait.
- ◆ **Bt Cotton is the only GMO crop** approved for commercial cultivation in India since **2002**.
- ◆ **Challenges** include ecological risks, ethical issues, and market monopoly by IP-holding corporations.



## RNA Editing

- ◆ It is a process that **modifies genetic information** on RNA sequences through insertion, deletion or substitution.
- ◆ **RNA has four building blocks:** A (Adenine), G (Guanine), U (Uracil), and C (Cytosine).
- ◆ **RNA editing** modifies mRNA without altering DNA—using ADAR enzymes to convert Adenosine to Inosine.
- ◆ **Safer and reversible compared** to DNA editing, reducing risk of permanent unintended mutations.



## Mitochondrial Transplantation

- ◆ **Mitochondria transplants** restore energy function in damaged tissues such as heart, brain, and skin.
- ◆ **Challenges include** short viability (1–2 hours), immune rejection, and ethical concerns of germline modification.
- ◆ **Promising applications** in treating Parkinson's, osteoporosis, infertility, and skin disorders.



## Recombinant Proteins (RPs)

- ◆ **These are modified or manipulated proteins** encoded by recombinant DNA (rDNA) for
- ◆ **RPs are used** in making insulin, monoclonal antibodies, GM crops, and bioremediation products.
- ◆ **Escherichia coli (E. coli)** is also one of the organisms of choice for RP production



## Graphene

- ◇ **Graphene is a one-atom-thick sheet** of carbon.
- ◇ **Strength:** 200 times stronger than steel, 6 times lighter.
- ◇ **Transparency:** Absorbs only 2.3% of light (ideal for displays and solar cells).
- ◇ **Applications range** from quantum computing and batteries to composites and defense tech.



## Axiom-4 Mission

- ◇ **It is the 4th private astronaut mission**, to the International Space Station (ISS).
- ◇ **ISRO conducted experiments** on space farming, Cyanobacteria, and Study muscle loss etc.
- ◇ **India faces technological hurdles like** life support systems, thermal protection during re-entry, and human-rated rocket reliability.



## Bharatiya Antariksh Station (BAS)

- ◇ **India aims to operationalize BAS by 2035** with five modular components in LEO.
- ◇ **It will advance microgravity research**, disaster imaging, and long-duration spaceflight training.
- ◇ **Challenges include** low R&D budget, life support systems, and radiation shielding.



## Space Docking Experiment (SPaDeX)

- ◇ **ISRO demonstrated autonomous in-orbit docking** of two satellites under SPaDeX.
- ◇ **The mission achieved real-time rendezvous**, formation flying, and remote operation testing.
- ◇ **Mastering docking enables ISRO** to develop space stations and crew transfer systems.



## Third Launch Pad

- ◇ **ISRO's Third Launch Pad** at Sriharikota will support **Next Generation Launch Vehicles (NGLV) and Launch Vehicle Mark-3 (LVM3)**.
- ◇ **To be completed in 4 years**, it is crucial for future human and lunar missions.
- ◇ **It expands launch frequency** and supports India's goal of establishing Bharatiya Antariksh Station.



## Scramjet Engine

- ◇ **India conducted its first successful 120-second test** of an active-cooled Scramjet combustor.
- ◇ **A scramjet engine** means a Supersonic Combusting Ramjet engine.
- ◇ **Scramjets operate efficiently** at hypersonic speeds using supersonic combustion.
- ◇ **Challenges include** high-energy fuel needs, cooling systems, and integration with launch systems.



## CE20 Cryogenic Engine

- ◇ **CE20 is ISRO's high-thrust cryogenic engine** used in LVM3 missions including Chandrayaan-3.
- ◇ **Generally liquid hydrogen liquefied** at  $-253^{\circ}$  Celsius is used as fuel and **liquid oxygen liquefied** at  $-183^{\circ}$  Celsius is used as oxidizer.
- ◇ **Challenges involve** extreme thermal stress, superalloy requirements, and ignition reliability.



## Hyperspectral Imaging (HSI) Satellites

- ◆ **HSI analyses** a wide spectrum of light instead of just assigning primary colours (red, green, blue) to each pixel.
- ◆ **Applications** include agriculture, water quality monitoring, and pollution tracking.



## Space Debris

- ◆ **Over 1.2 million** debris pieces larger **than 1 cm** are currently in orbit.
- ◆ **Risks include** Kessler syndrome, satellite damage, and re-entry dangers to life on Earth.
- ◆ **India's initiatives include** ISRO's IS4OM, NETRA, and Space Situational Awareness Control Centre.



## Traditional Medicine

- ◆ **Over 80% of global population** uses some form of traditional medicine (WHO).
- ◆ **Initiatives:** TKDL, WHO Centre in Jamnagar, National Ayush Mission, Ayush Mark certification.
- ◆ **Challenges:** Lack of scientific evidence, biopiracy, standardization issues, and limited integration with allopathy.



## Anti-Microbial Resistance (AMR)

- ◆ **AMR is projected to cause 10 million deaths** annually by 2050 if left unchecked.
- ◆ **Factors include misuse of antibiotics** in humans and livestock, and lack of diagnostic tools.
- ◆ **India launched** NAP-AMR and AMR Surveillance Network across 30+ labs for tracking resistance.



## Non-Communicable Diseases (NCDs)

- ◆ **NCDs account** for 74% of global deaths and 63% of all deaths in India.
- ◆ **Types include** cardiovascular diseases, cancers, chronic respiratory diseases, and diabetes.
- ◆ **India's efforts include** NPCDCS, AMRIT, etc



## Tuberculosis (TB)

- ◆ **India introduced the BPalm regimen** to treat drug-resistant TB in **6 months**.
- ◆ **There were 25.52 lakh notified TB patients** in India in 2023 (India TB Report 2024).
- ◆ **Challenges include** comorbidities, delayed diagnosis, private sector inefficiencies, and social stigma.



## Neglected Tropical Diseases (NTDs)

- ◆ **In 2022, 1.62 billion people** required interventions against NTDs, down 26% from 2010.
- ◆ **India has the world's largest burden** of at least 10 major NTDs like dengue and filariasis.
- ◆ **WHO aims to reduce NTD intervention** needs by 90% by 2030.





## Rare Diseases

- ◆ **In India, 63 Rare Diseases** are listed under National Policy for Rare Disease 2021 (NPRD, 2021).
- ◆ **Diseases include** Spinal Muscular Atrophy (SMA), Gaucher disease, and Pompe disease.
- ◆ **Challenges include** diagnosis delays, lack of treatment options, and high costs.



## Nuclear Energy

- ◆ **India's installed nuclear capacity** is 8.78 GW, planned to triple by 2031–32.
- ◆ **Initiatives:** Three-stage programme, Bhavni thorium plant, Kakrapar PHWRs, Nuclear Energy Mission for 100 GW by 2047.
- ◆ **Challenges:** Safety concerns, land protests, fuel import dependency, and high upfront costs.



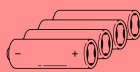
## Nuclear Fusion

- ◆ It combines **lighter nuclei** (e.g., hydrogen) to form heavier ones, releasing energy.
- ◆ **India is a partner in the ITER Project**—world's largest nuclear fusion experiment in France.
- ◆ **Fusion is safer than fission** and offers a nearly limitless clean energy source but faces technological barriers.



## Battery Energy Storage System (BESS)

- ◆ **BESS stores surplus electricity for later use**, improving grid stability and integration of renewables.
- ◆ **It reduces dependence on fossil fuels** and helps manage peak electricity demand.
- ◆ **India aims to develop 47 GW BESS** capacity by 2030 to support its clean energy goals.



## Sodium-Ion Battery

- ◆ **Sodium-ion batteries** are emerging as an alternative to lithium-ion batteries.
- ◆ **Advantages include** abundant raw materials, low cost, and environmental sustainability.
- ◆ **Challenges involve** lower energy density and limited commercial scale production.



## Hyperloop Technology

- ◆ **Hyperloop involves** high-speed pods traveling in low-pressure tubes using magnetic levitation.
- ◆ **It aims to significantly** reduce travel time and carbon emissions for inter-city transport.
- ◆ **Challenges like** high costs, safety risks, vacuum maintenance, passenger discomfort from acceleration, and demanding infrastructure needs.



## Desalination Technologies

- ◆ **Desalination helps** convert seawater into freshwater using methods like reverse osmosis and thermal distillation.
- ◆ **India faces freshwater scarcity** with only 0.06% accessible freshwater out of 3% total.
- ◆ **Innovations like** solar graphene evaporators can enhance efficiency and reduce costs.

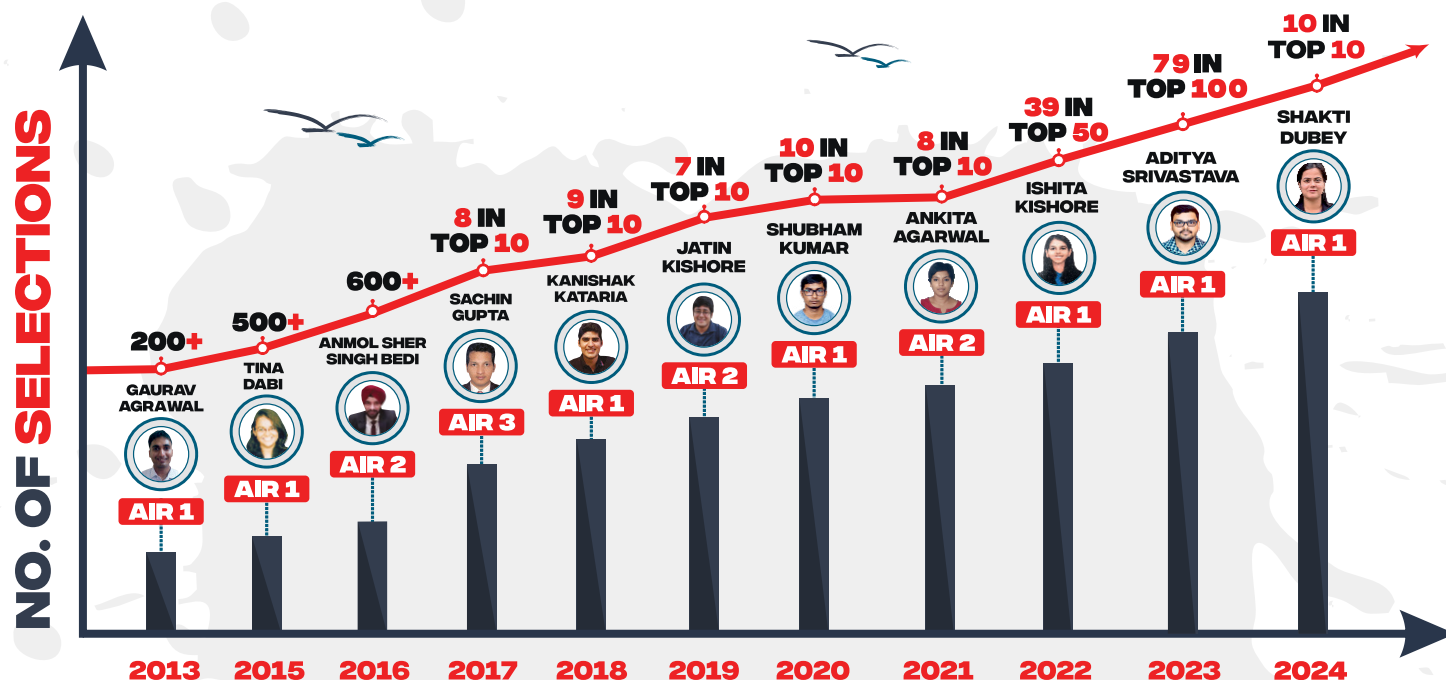
## Appendix: Indian Scientist and their Contribution

Scientist	Contribution/Key Work
<b>Satyendra Nath Bose</b> 	<ul style="list-style-type: none"> <li>He was an Indian physicist one of the fathers of <b>quantum mechanics</b>.</li> <li>He developed theory of <b>Bose–Einstein Statistics</b> and the concept of the <b>Bose–Einstein Condensate</b>.</li> </ul>
<b>Prafulla Chandra Ray</b> 	<ul style="list-style-type: none"> <li>Established first Indian research school in chemistry.</li> <li>He is known as <b>Father of Indian Chemistry</b>.</li> <li><b>Important Research:</b> Platinum, Iridium and Sulphides of organic substances.</li> </ul>
<b>Srinivasa Ramanujan</b> 	<ul style="list-style-type: none"> <li>He was an exceptional Indian mathematician renowned for his substantial contributions to various branches of mathematics. <b>These are:</b></li> <li><b>Mathematical concepts:</b> Complex analysis, number theory, infinite series, continued fractions, game theory, etc.</li> <li><b>Ramanujan sum:</b> Sum of all natural numbers till infinity is <math>-1/12</math>.</li> <li><b>Ramanujan number:</b> 1729 (It is the smallest number that could be expressed as sum of two cubes in two different ways, i.e., <math>10^3+9^3</math> and <math>1^3+12^3</math>.)</li> </ul>
<b>C. V. Raman</b> 	<ul style="list-style-type: none"> <li>He was <b>Indian Physicist</b> known for discovery of the '<b>Raman Effect</b>' in 1928.</li> <li><b>Raman Effect</b> is a phenomenon when a stream of light passes through a liquid, a fraction of light scattered <b>by liquid is of a different colour</b>.</li> <li>He Won <b>Nobel Prize</b> in Physics in 1930 (for Raman Effect).</li> </ul>
<b>Homi Jehangir Bhabha</b> 	<ul style="list-style-type: none"> <li>First chairman of the <b>Atomic Energy Commission of India</b> (Known as <b>Father of Indian Nuclear Power</b>)</li> <li>Founded and directed <b>Tata Institute of Fundamental Research (TIFR)</b> and <b>Atomic Energy Establishment, Trombay</b>, later renamed the <b>Bhabha Atomic Research Centre (BARC)</b>.</li> <li><b>Pioneered</b> the use of thorium to extract uranium from it rather than relying on the meagre reserves of uranium in India.</li> </ul>
<b>Meghnad Saha</b> 	<ul style="list-style-type: none"> <li>He was Indian astrophysicist noted for his development in 1920 for <b>thermal ionization equation</b>.</li> <li>He established the <b>National Academy of Sciences</b> in 1930.</li> </ul>

Scientist	Contribution/Key Work
<b>Vikram Sarabhai</b> 	<ul style="list-style-type: none"> <li>He was regarded as the <b>father of the Indian space programme</b>.</li> <li>Founded the <b>Physical Research Laboratory (PRL)</b> in Ahmedabad in 1947.</li> <li>Played key role in setting up <b>Thumba Equatorial Rocket Launching Station</b> in Thiruvananthapuram.</li> <li>Worked on India's first satellite '<b>Aryabhata</b>'.</li> <li>He received the <b>Shanti Swarup Bhatnagar Medal</b> in 1962.</li> </ul>
<b>A.P.J. Abdul Kalam</b> 	<ul style="list-style-type: none"> <li>Project director of India's <b>first Satellite Launch Vehicle (SLV-III)</b> which successfully deployed the <b>Rohini satellite</b>.</li> <li>Worked on <b>Integrated Guided Missile Development Programme (IGMDP)</b>.</li> <li>He led to the <b>weaponisation of strategic missile</b> systems and the <b>Pokhran-II nuclear tests</b> in collaboration with Department of Atomic Energy.</li> </ul>
<b>Subrahmanyan Chandrasekhar</b> 	<ul style="list-style-type: none"> <li><b>Played an important role</b> in notable contribution of '<b>Chandrasekhar Limit</b>' (1.4 of solar masses).</li> <li><b>Chandrasekhar limit</b> determines if a star dies as a white dwarf, or has the mass to exceed this, launching a supernova to create a black hole or neutron star.</li> <li><b>He was awarded the Nobel Prize in Physics in 1983</b> for his work on the physical processes involved in the structure and evolution of stars.</li> </ul>
<b>Prasanta Chandra Mahalanobis</b> 	<ul style="list-style-type: none"> <li>Founded the <b>Indian Statistical Institute</b>.</li> <li>Established the <b>National Sample Survey</b> (1950) and set up <b>Central Statistical Organisation</b> to coordinate statistical activities.</li> <li><b>Shaped India's second Five-year Plan (1956-61)</b>, also called the <b>Mahalanobis Plan</b>.</li> </ul>
<b>C.N.R. Rao</b> 	<ul style="list-style-type: none"> <li>Main research interests are in <b>solid state and materials chemistry</b>.</li> <li>Also, worked on <b>metal oxides, carbon nanotubes, and other materials and two-dimensional systems</b>, including graphene, boron-nitrogen-carbon hybrid materials etc.</li> </ul>
<b>Gagandeep Kang</b> 	<ul style="list-style-type: none"> <li><b>Known for her inter-disciplinary research</b> studying the transmission, development and prevention of enteric infections and their sequelae in children in India.</li> <li><b>She has worked on the development and use of vaccines</b> for rotaviruses, cholera and typhoid, conducting large studies to define burden, test vaccines.</li> </ul>



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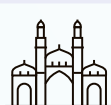
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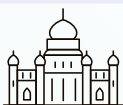
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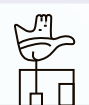
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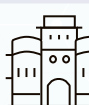
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