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Anshul

Dalmia

Census needs teachers, but schools even more

ndia's population census will finally be held in 2027 - six years too late. The mammoth exercise will require an army of temporary staff — officers, enumerators, supervisors. Once again, the governthent's go-to workforce will be schoolteachers.

Under Section 27 of the Right to Education Act, 2009, teachers can be deployed for "nonacademic" purposes, but only for elections, census, and disaster relief. The law was meant to be narrow. In practice, it has become a catch-all excuse to saddle teachers with administrative chores. The result is that teachers (overworked and, often, underpaid) are being forced to do the State's paperwork at the expense of their students' right to learn.

In Manyar Hasina v. Election Commission (2024), a parent complained that election

duties were disrupting her child's education because teachers were absent. The Bombay High Court merely rescheduled politing to holidays. That solved the attendance

issue, but only on paper. The judgment ignored what should have been obvious: When teachers spend their holidays as booth officers, they return to school exhausted, and unprepared. Education suffers not just when teachers are absent, but also when they are overburdened.

This neglect is not new. In Election Commission v. St Mary's School (2007), the Supreme Court held that teachers could be allocated non-academic work only on non-teaching days. But the Court left key questions unanswered: What is *non-aca-

demic"? What if it affects teaching? And what if the exception becomes the rule?

The situation worsened after the Supreme Court's decision in Executive Engineer v Mahesh (2022), where it ruled that "relating to non-academic work" must be given a wide interpretation. The floodgates opened to force any activity remotely connected to elections. census, or disaster relief upon teachers. The fallout has been immediate. In Nirbhay Siruft v. State of Uttar Pradesh (2022), the Court

upheld the practice of assigning teachers electoral roll revisions.

States have exploited this interpretation, in Andhra Pradesh, teachers have been deployed as personal assistants. In Assam, they were sent to update the National Register of Citizens. In effect, teachers have been lawfully made to abandon classrooms.

The cost of this mismanagement is not abstract. During the 2021 Uttar Pradesh panchayat elections, more than 1,600 teachers reportedly died from Covid-19. Teachers' associations have repeat-

edly protested non-reaching burdens, warraing that they are unable to complete syllabior maintain teaching quality. The toil is especially harsh on children in government schools, often from the poorest households. When teachers are missing or burnt out. learning stops. Each consists election or verification drive may last only weeks, but its after-effects larger for years - in unifolahed courses, poor results, and lost futures.

Teachers are meant to teach, not admirtister State's logistical operations. The right to education is not a symbolic promise: if is a constitutional guarantee. But that guarantee collapses when the same people responsible for fulfilling it are overworked and diversed. The lesson is sample but urgent. Event bour a teacher spends collecting data in manning a polling booth is an hour stolen from a child's editivation. Teachers are not crisis denic in election staff - they are the backbone of the right to education. Country ritizens means little if we stop teaching them first.

Anathol Dalmin is with the Vidh Linds (# Lind) Policy The views expressed are personal

Bias in the classroom

Teachers' expectations can shape a child's confidence as much as grades. Evidence from Bihar shows how subtle perceptions reinforce social inequality



RITWIK BANERJEE, SATARUPA MITRA, SOHAM SAHOO AND ASHMITA GUPTA

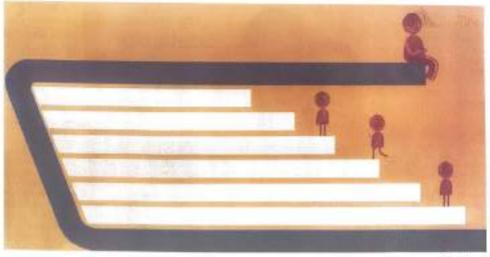
ASHIFAR, WHERE casts often shapes political narratives, heads into another election, it is north asking how deeply these divisions impact lives. Our research at the intensection of psychology and economic development suggests that the fault lines of social fracture extend to the classification is meant to dominate duration is meant to dominate.

Over the past two decades, Bihar's education spending has increased tenfold to nearly is 50,000 core, resulting in adamatic expansion of schools and teaching staff, 'est, deep social gaps in learning outcomes persist. Data from the Coste-Based Survey 20,022-23 show that only 14 per cent of individuals from the general category have completed Class 12, compared with 95 per cent among ORCs and just 66 per cent among SCs and STs. The gap widens sharply at higher levels of education, where historically disadvantaged groups remain startly underrepresented.

The persistence of these disparities reflects a complex interplay of factors — structural disabsurbantages, economic constitution, and variations in school quality. Yet one often-over-looked dimension lies within the classroom itself; How teachers from expectations about student ability. Think of a setting where you are absorber and youthne a student, who you most along the believe leashower learning levels. How would your overaction with her be? How often would you engage with her?

Our study, 'Caste Identity and Teachers' Biased Expectations: Evidence from Bihar', undertaken jointly by the Asian Development Research Institute (ADRI) and the Indian Institute of Management Bangalore (BMB), examines these questions through a systematic empirical analysis. The study collects data from a representative sample of public schools in four districts: Vaishali, Sheikhpura, Purbi Champaran, and Jamus. A rich set of information was collected from 229 teachers and 1,068 students of Grades VI to VIB, from about 105 schools. The students were asked to take standardised tests in Hindi, English, and Mathematics Independently, their respective teachers were then asked to categorise each student as belonging to the "top," "middle," or "bottom" of the class in each subject. Comparing these subjective assessments with students' actual test scores allowed us to construct a measure of "evaluation bias" - the gap between perceived and demonstrated ability.

We compared how the evaluation bias varied between general category and backward-caste students (OBCs SCs and STs) when they were taught by the same teacher. This approach enabled us to ostimate whether forward-caste teachers systematically exhibited greater evaluation bias and therefore, had lower expectations for students from backward-castes Indeed backward-caste students were systematically roted lower by forward-caste teachers, after accounting for classroom characteristics and grading tendencies. This approach accounts for student, school and vilgouist accounts for student school and vilgouist accounts for students.



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"extra disadvantage" that arises when teacher and student case identities interact.

The results rewal a clear pattern of evaluation has Forward - care teachers run-backward - caste teachers run-backward - caste teachers of 22-0.43 tranks i lower than their actual test-based performance warrants. This translates into a 17-27 percentage point higher probability that a backward-caste student is underestimated compared to a similarly performing peer from the general cotegory. The effect is stongest for students from SC and ST communities importantly, there is no evidence that these students performing the molyective tests, indicating that the bias stores from perception, not performance.

Teacher expectations influence how students see themselves — their confidence, onetwation, and wellingness to aim higher. When children from marginalised communities are consistently underrated, they internalise these low expectations, which may result in lower effort in the long run, shaping their educational choices, aspirations and life trajectories.

Differential teacher expectations may lead to teachers interacting with students from histerent communities in varying ways. An upper-caste student has lower learning levels compared to upper-caste students may not investing the former, ence again leading to divergent educational outcomes between students of different cases. Those of us in the profession of teaching are often asked to guard against teaching note top of the class. Our research suggests that the procursor to this belief about who belongs at the top of the class may be systematically biosed.

In a state like Bihar, where education remains the most visible ladder of mobility, these belief-driven barriers take on enormous significance. They remind us that reforms in infractiviture, curriculum, or testing cannot substrictly for reforms in perception.

While our findings offer rare quantitative evidence on caste-linked bias in teacher expectations, expanding the dataset outil reveal afair richer and more manned picture. Alarget state-wide study, spanning more districts, to rail-urban contests, and both private and government schools, would help uncover how these biases cary across different institutional settings. Following students over time would reveal whether these perceptual gaps persistately more chrough grades, and how such biases shape their confidence, academic persons.

Differential teacher expectations may lead to teachers interacting with students from different communities in varying ways. An upper-caste teacher who believes a backward-caste student has lower learning. levels compared to uppercaste students may not invest in the former, once again leading to divergent educational outcomes between students of different castes. Those of us in the profession of teaching are often asked to guard against teaching to the top of the class'. Our research suggests that the precursor to this belief about who belongs at the top of the class may be systematically biased

formance, and long-term outcomes, in short, expanding the data would shift Bihar from merely diagnosing a challenge to designing effective solutions. It would be by identify where interventions can have the greatest impact and position the state at the lorefront of evidencebased education reform.

The evidence points to an urgent need for systemic change. Tackling caste-linked percention gaps will require both mindset shifts and institutional reforms. Caste-sensitisation and implicit bus training for trachers commolories conscious patterns of expectation visible and correctable Data-drivenfeedbackloops, where teachers periodically compare their subjective assessments with students' actual performance, can recalibrate beliefs. Promoting greater diversity in teacher recruitment, so that it reflecte Bihar's social composition, can help reduce systemic blind spots and foster empathy. Finally, institutional monitoring of gracing fair ness can promote accountability and ensure equitable assessment practices.

Our analysis does not suggest that teachersonactously discriminate. It highlights how deeply entrenched social hierarchies can shap belief formation, even within professional contexts guided by mentiocratic aleats.

Bitar's progress inexpanding access to education is undentable, but the near phase of reform must focus on equity in learning quality. Understanding those biases shape expectations can help policymakers move beyond physical infrastructure and corolinent toward the subtler but equally critical goal of cognitive equity, which is fairness in how ability is perceived, nurtured, and reworded.

for Bhar, and indeed for India, the proteise of education will only be fulfilled when classrooms become spaces where every child is judged by performance, not perception. No matter which government comes to power, the broader educational policy must acknowledge the dehilitating rules of not only the ma-

terial ramifications of projudice in the classroom, but also the psychological frictions that enable such prejudicial behaviour to emerge in the first place.

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Tomorrow is today

Youth mirror what they see. If leaders model discipline and dignity, young citizens will follow with purpose. Before askingthem to build the nation, we must show them how through character, not charisma:throughlistening.not lecturing: and by proving that respect is earned through conduct, not status, India's youth are not inherently flawed. They are simply adrift in a system that has failed to guidethem

ndia's youth are often hailed as the nation's greatest asset - brimming with energy, ambition, and promise. But behind this hopeful narrative lies a stark truth-only a fractionare meaningfully contributing to national progress. The rest remain emotionally adrift, professionally underutilized, and socially undisciplined. Our much celebrated demographic dividend risks becoming a demographic liability uriless we confront this reality with urgency

The symptoms are most visible in urban. India, but rural regions are not untouched thanks to the instant reach of electronic media and digital platforms. Aggression. impatience, and civic indiscipline have become routine. Reckless driving - on expressways, city roads, and even on the wrong lane - along with foul language, queue jumping, and public confrontations reflect a deeper malaise. Helmets are ignored. traffic rules flouted, and civility eroded. It is not uncommon to hear abusive language in public spaces, revealing a disturbing collapse of basic politeness and respect.

This behavioural drift is not confined to the uneducated or economically marginalized. It has seeped into the psyche of even the well-off and well-schooled. The rise of nuclear families, helicopter parerning, and instant digital gratification has shaped ageneration emotionally unprepared for adversity. Shielded from discornfort and last tracked to rewards, many adolescents now lack the resilience to face failure, rejection, or uncertainty. When pressure mounts, escape often feels easier than endurance - manifesting in aggression, addiction, or aguithy.

Emotional volatility, sleepleseness, and even suicidal ideation are no longer rarethey are warning series of a deepen discounsest. based on SCRH data for 2022. If per cent ed all solicides in India users committed by people under the age of 30 - a staggering 70/100/young fives lost in a single year.

Substance abuse among adolescents is rising alarmingly to December 2022 the Centre informed the Supreme Court that more than 1.5 crore children aged to 17 were addicted to substances, sak ohol, campibils, and opioids being the need common.

Signultance risk, the digital space is possibly



platforms like YouTube, has become a breeding ground for vulgarity, perversion, and foul language. Despite community guidelines, algorithmic incentives and cultural shifts allow such content to thrive, shaping impressionable minds in troubling ways.

Even basic courtesies, like greeting elders, now require parental prompting, a discurbing, shift in cultural values. A common driving courtesy, such as dipping headights to avoid glare, has disappeared. Instead, LED lights are kept on full beam, blinding oncoming drivers. Pressure horns, illegal and prohibited. are used with impunity. Double-decker buses blaze through traffic with flashing lights, intimidating sensible drivers, especially women. The rule of law appears absent, and the long arm of enforcement rarely reaches these offenders.

Educational institutions are struggling to manage and inculcate civic values. While data on expulsions for indiscipline is scarce, anecdotal evidence suggests a growing inability to enforce behavioural norms. Schools, stripped of authority, are unable to instil discipline. Parents, often indulgent or absent, fail to set boundaries. Psychiatric analysis has replaced moral guidance, and emotional entitlement has replaced resilience.

Meanwhile, India's employment crisis deepens. Despite agrowing working age population, the employment rate has stagnated. According to estimates from Santosh Mehrotra and Jajati Parida's forthcoming book "India Out of Work", only about 330 million of the 600 million work force were engaged in non-farm sector jobs in 2023-2024.

Searly 280 million remain fied to agriculture. much of it unpaid family labout. Another 28 million educated youth are actively seeking jobs, while 100 million - mostly women - have exited the job market. discouraged by fimited opportunities or systemic harriers. The restate still irreducation. bur many will ensense omengologable due to amismarch between academic training and

The structural teversals in manufacturing and the breakdow not the Lewisian transition, which envisioned supplies roral labour moving into higher productivity industrial jobs, have compounded the clists. In Indias context, this transition has fallered. Instead of absorbing rural workers into formal manufacturing we have seen stagnation in indicaration communitarise in informal,

low-wage urban employment. Many youth. especially in towns and city outskirts, remain stuck in agriculture or drift into unregulated sectors like gig work, street vending, or idle urbaneouming none of which offer long-term stability, skill development, or dignity.

Despite campaigns like "Make in India." manufacturing's share in employment and GDP has declined. Torrench Chine's productivity levels. India must orgently address the behavioural drift among youth, Roaming aimlessly, wasting time, and resisting discipline are not just personal failings, they are national

setbacks. It is well-nigh impossible to expect youth with such a mindset to perform professionally in any activity office, or industry. Theirwork culture too reflects the same casual, arrogant. and shortcut-driven attitude with negligible care for quality, accountability, or



India Shiming and "Viksit Bharat" while ignoring the realities of overcrowded cities anothordable schooling. and a very langements esset youth population remaining unfit to meet the challenges of a competitive world.

India's leaders unist lead by example: Austerity, purictuality, and integrity must be fixed - not just preached. When public figures glamorize aggression or indulge in theatrical braxado and unsocial language. they normalize newfity. Loudness is mistaken for leadership, and restraint for weakness.

Youth intrior what they see. If leaders model-discipline and dignity, young cruzens. will follow with purpose Before asking them to build the oution, we must show them through character, not charismathrough listering, not lecturing and by proving that respect is earned through conduct, not status.

India's couth are not inherently flawed. They are stroply adrill in a system that has failed to guide them. The solution is not purastiment, but retorn. Not nestalgua bur nenewal We must reconnect our infrares outli to their roots, their communities, and their conscience. We must offer them not use jobs, but meaning. Not just education, but values. Not just freedom, but responsibility. But reform must come with resolve, it must be executed with fairness, but also firmness. Democratic freedom cannot be a shield for indiscipline nor can every wrong be excused in the name of youthful exuberance. Accountability must walk hand in hand

with empuths: Recent glaring examples are the gruesome killing and inturies caused by rash driving under the influence of alcohol in Prayagna. followed by a similar case in Delhi. It is time the leadership, bureaucracy, and police shurt the "all is well" posture, stop publicity stopurs, face reality, and take conscious, stern action to instil discipline, civic responsibility, and respect for law across all layers of society. This must begin with visible, consistent enforcement, not selective crackdowns or token gestures. The message must be clear indiscipline is not freedom, and public spaces are not arenas for reckless self-expression.

We must move beyond slegans and symbolism, Real transformation demands institutional reform, leadership by example, and a national ethos of accountability. The youth must be guided not indulged. They must be trained, not merely raught. They must be inspired needistracted. And above all they must be remarked that nation building is not a spectator speet, it is a disciplined collective pursuit

histia stands at a historic morning. The demographic dividend that began around 2013 will begin to taper by 20-to. That leaves us with just two decades to harness this energy, channel it into productively, and elevate our tratterral standing. Descripting a massive youth population requires stem action, contantited leadership, and extensive common training based on a uniform whiteand language. Further delay in addressing these critical areas will squander golden opportunities to enrich the nation and elevate the quality of life for all citizens.

Let us not wait for another trageds, another missed chance, or another hollow celebration. Let us begin the hard work of disciplining the nation, dignifying our youth, and directing our future, before the crossroads become a dead and. As Martin Luther king, Jr. aprily said. 'We are now faced with the fact any fractals, that tomorrow is today. We are configured with the fierce urgetes of now 2



retired Air. Commodore. VSM, of the bullan Air Force.

Overseas study demand surges in smaller cities, driven by AI, Data Science



RITWIK MUKHERJEE Kolkata, 31 October

Various courses linked to Artificial Intelligence, Data Science and Analytics have seen significant growth among Indian students planning to study abroad, growing five times since 2021 and doubling in the past year. Demand for MSc Management courses has also doubled year on year.

underscoring a shift towards

programmes that combine technical depth with global business exposure.

Significantly, experts are of the view that we are seeing a strong shift toward AI, Data Science, and Machine Learning courses not just because they're popular, but because students clearly see where the world is headed.

If a recent research paper by the transnational study abroad platform-Leap is to be believed, what also appears to be very significant is the fact that overall interest in study abroad among Indian students has also hit a record high, with new data fshowing a 4.5 fold rise in demand from Tier-Land Tier-2 cities over the past two years. The eastern region of India now accounts for 7 per cent of total study-abroad interest, the highest share recorded so far, reflecting. growing awareness and participation beyond traditional education hubs.

Different undergraduate programmes registered L5X growth year-on-year, while PhD interest doubled compared with 2024, led largely by students targeting Germany and the EU for research opportunities.

The Q3 2025 data points to a marked shift in destination preferences. Germany and Ireland have recorded the fastest growth this year, while UAE and New Zealand

saw a three-fold rise in student demand between Otand O2 2025, suggesting that students are expanding their choices beyond traditional destinations. For example, freland's visa approvals. based on student-reported and partner-verified outcomes have tripled over two years, consolidating its position among Europe's eading destinations for Indian students, Such growing interest in these subjects, experts feel, are not without reasons. These are the skills shaping the next generation of jobs, Across more than a million interactions on our platform. students are asking smarter questions about how to alien their education with real career outcomes. Al is helping us make those links visible, giving every learner a clearer, more personalised roadmap to succeed globally.

Interestingly, the Bureau of

Immigration (8ol) data shows that a little over 7.6 lakh Indian students pursued higher studies abroad in 2024, slightly down from 8.95 lakh in 2023. Despite this minor dip, the numbers highlight a steady demand for international education. Official statistics show that in 2020, over 2.6 lakh Indian students went abroad. This number rose to 4.45 lakh in 2021, followed by a sharp increase to 7.52 lakh in 2022. The upward trend peaked in 2023 when nearly 8.95 lakh students nursued studies overseas. In comparison, 2024 saw 7.6 lakit students moving abroad murking a slight reduction from the previous year but still much higher than pre-2022 levels, This consistent increase indicates a strong demand for overseas education among Indian youth despite Continue Charles

HINDU (P-12), 02 NOVEMBER 2025

Between funds and ideology

Kerala signed up for the Union government's flagship school education scheme after three years of resistance only to pause the agreement amid strong opposition from a coalition partner of the ruling Left Democratic Front

R.K. Roobest

erata made headlines recently when it became a signatory to the Union government's flagship PM SHBC Overse Minister's Schools for Blisting India) scheme after three years of holding out, only to press the pause button after the Communist Party of India (CFI) that is a coalition partner in the Communist Party of India (Marrist)-led Left Democratic Front (LDF) government in the State refused. to go along with the decision alleging a lack of consensus.

The scheme was armounced by Prime Minister Narendra Modi on National Teachers' Day in 2022.

On September 7, 2022, the Union Cabinet approved the Centrally sponsored scheme, which seeks to develop over 14,500 existing schools, including Kendriya Vidyalayas (KVs) and Jawahar Navodaya Vidyalayaa ('BNAs), across the country as model Institutions that showcase the National Education Policy (NEF) 2020.

The PM SHRI schools are envisioned to meet the "demands of the Zist century," notes the scheme's Texmework on school transformation'. With upgraded infrastructure and innovative. perhapsety and technology, the schools: are meant to create "well-rounded individuals equipped with key 21st. century skills". According to the Union Ministry of Education, the objective of PM SHRI is to ready schools in which "every student lights welcomed and cared for, where a safe and stimulating learning environment exists, where a wide range of learning experiences are offered, and where good physical infrastructure and resources conductive to learning are available to all madents."

The scheme is designed so haveful more than 18 labb students directly. Mentaring of schools in the vicinity of PM SHRI schools is expected to besefit many more students. The total outlay of the project is \$27,360 crose (Central share of 618,128 cross and State/UT share of 79,212 cross in 60:40 pattern). spread their a period of five years sill



Murch 2027. The Union government will provide 90% of the funding for northeastern and Nimalayan States and the UT of Jamess and Kashmir, and 100% for UTs that do not have logislature. According to the PM SHRI dishboard, 13,000 schools have been selected for the scheme nationwide. Of thern, I, SEI are KVs and JNVs.

Only existing elementary and secondary/senior secondary schools managed by the Union/State/UT/local self-governments and having Unified District Information System for Education Plus (UDESE+) code are selected for the scheme.

The selection is done in three stages. First, States or UTs sign amemorandum of understanding (MoU) with the Union government agreeing to implement the provisions of NEP . 2020 in "entirety". Then, schools that meet the minimum benchmark (on the book of UDISE+ data) are shordisted.

in the third stage, the shortfissed schools compute to fulfil certain criteria based on the challenge formula. Their claims are verified by States or UTs through physical impaction and a list of schools is recommended to the Union Ministry of Education. A maximum of two schools - one elementary and one

secondary/sersior secondary - are selected from every block or urban. local body. An export committee recommends the final list of schools selected for PM SHRI in each State or UT.

The MoU for the PM SHRI scheme clearly states that PM SHRI has to be prefixed to name of selected schools. "No chance shall be undertaken thereafter, by the Status/UTs/KVS/NVS for these schools, as these schools are to be developed as PM SHRI Schools for providing quality education," it

Key features

Pedagogy in PM SHRI schools will be more experiential, holistic, integrated, learner-centred, and flexible. according to the guiding framework. The carriedaun can follow the National Curriculum Framework/State Carrientors Promework developed in accordance with the new curricular and pedagogical structure of the NEP.

The schools will use mother tongue/local or regional language for teaching and learning, particularly in the early years.

Student registry to track expolment and learning progress; STEAM iscience, technology, origineering, arts and mathematical adsention; sports and arts for every student; ICT facility, smart chargoons and digital libraries, science labs, and vocational labs; and early childhood care and educations competency-based learning and improvement in learning outcomes of each student are some of the significant aspects of PM SHEI schools.

A "School Quality Assessment Promesork' that measures the performance of these schools is another key component. The assessment framework will produce. comprehensive reports to aid. improvement in educational standarda. "Traditions and practices and Indian knowledge sietems' are part of curriculum in these schools. The framework, it is mentioned, is not prescriptive but suggestive in nature.

Rose over PM SHELL

Though PM SHIU was baunched in 2022, States such as Delbi, West Bengui, Bittar, Octobra, Tarell Nochs, and Kerala refused to come on board for reasons ranging from political opposition to the NEP and objection to adding the PM SHRI prefix to schools' name to prioritising their own рифесы.

Punjab signed the MoU in 2022 but

withdrew from it a year later. As in the case of Kerala, withholding of funds under another Centrally sponsored education scheme Samagra Shikaha by the Union government now the Punjab government ultimately reconsider the decision in 2004. Other States too gradually gave in, with lack of critical funding threatening to detail.

education schemes. Apart from Kerala, West Bengal and Tamil Nadu (al) three Status ruled by Opposition parties) remain the only States yet to sign up for the scheme. West Bergal's contention pertains to funding and branding, it asks why the scheme should be manes! PM SHRI 8 States have to bear 40% of the cost and have to take over the schools after five years. As for us Turnii Nadu is: concerned, the point of conflict is the three-language formula of the NEF. This translates to 'imposition of Ninch'

for the ruling government. Turnii biadu has chosen to seek legal redress for release of nearly \$2,200 crore from the Union government.

Hernia, too, opposed PM SHRI on

the grounds it showcases the MEP which, it saw, is being imposed by the Union government as part of a Rashtriya Swaysansevak Sarigh (RSS) agends that will lead to 'communalisation of education' and promote unscientific thinking. The State had once agreed to implement the PM 5HRI scheme in 2024, but refrained from signing the Noti.

More than a year later, a decision to throw in the towel was made after the Union government insisted on signing the pact as a precondition for release of pending Sumagra Shiksha funds to the tune of \$1,158.13 cross).

Xerala tried to defend the move. saying there will be no compromise on. its educational policy and values. The government's attempts to walk that rightroope of pelioritising the State's records within onlying their to the ideological opposition to the NEP though ran into a wall of CPI. objections, leading to the freque on the implementation of the schurre. A cabinet subcommittee, which has been formed to scrutinise the MoU, will now take a call on the issue. When

THE CIST

Apart from Kerala, West Bengal and Tomii Nadu (all Dree States ruled by Opposition parties) remain the only States. yet to sign up for the scheme

West Seneral's constention pertains to funding and branding, it asks why name the scheme PM SHRI If States have to bear 40% of the cost and have to take over the schools. after five years.

Turnii Nede's peint of conflict is the three language formula of the MEP

Keralla opposed PM SHRI on the grounds it showcases the HEP which, it says, is being imposed by the Union. preventment to part of an RSS letenda.

100 YEARS OF PUNJABSCH

The centenary is not merely a celebration of formulas or theorems, but of the human spirit that animates them

SUBDICION PAR STORM KAINTH & ANDY NAMES GREET

Tiraner configures of cerebrarian the birth configurey of Prof Ram Probash Bambol, (September 20, 1925 - May 26, 1930) coincides with the 100th year of the Pusph School of Mathematics, whose origin dates back to its menter Prof Servedamen Charles Ent research paper from Percials in 1905. The passing of Prof Bambah Drayour side solerin nata to the ood

As we look back, it is important to water As we look back, it is insportant to recog-nize how Pumpin carried out a lesting place for lead in the sational and global landscape of mathematics. The continu-ity of this tradition was determined by Pumbi Mathematics in her \$100 Springer-publication "Severath Schools on Fumber Theiry in India". This best placed the Dreads School of Mathematics family on Punish School of Mathematics family on the global wasp — second only in re to Strainte Raranajan's South ladies School of Mathematics

Octool of Mathematics.

After Farmaniper's untimely death in 1900, his layery was carried forward in Materia by Dr Ameri Suo, his Cashridge creatempersy under GH Bacch in Pasiple, the furthbones our Sarvalannan Choula (Sarva). His father, Thai Gopal Singh Chapts was navered the first out of Sarvalanna streets. Chawle, was amongst the first set of back tunchest of government colleges fecilitated to proceed abrossl under a sobsesse introdeced after the Indian Universities Act of 1904. Serso was been in England in 1901.

Parjob University Chandigath, continues to function under a varion of the same 1906

interestant legislation. In 2005, as a SA, cluders of Government College, Laivow, Servi Chorda began saleing problems providby Remarajan. By the time he completed his MA in 1928, he had 16 papers to his credit, and between 1925

28 papers to his creats, and network 1825 and 1821, becaused 34 problems in all. But father. Bhat Gopal Single, who because a profusor at Government College, Lohare, in 1810, accompanied him to Capbridge in 1905, but tragently passed away there due to presumerate. Some Chowle com-pleted his FAD on just two years, at the age of 22, under the guidance of JE Littlewood at Thanky College, Cambridge.

Al Cambridge, Chowle shared a hause At Camerage, Unions stated a state with the young Subrahmanyon Chan-dengelshir also Chandra, nephroval Nobel Institute CV Eurum, who had been at Labore. The incorrenated in lithium; onrespondence. Chandra was guided by RH who also mentured Flora Bhabba arel DS Kolhan. The Labora-born Chandra week on to was the 1983 Nation Presents Physics, but only after his two Mobel lourssic students: Turne Der Lee und Cher-Ning Yang Ibridentally CV Raman had graded both Servi Chevia and Chandra none the 62 foundary receibers of the Indian Academy of Scientis in 1934.

Choole's first hashing ph was at St. Suphen's College, Deliu, in 1001, where he married Hannes Majoredox sister of Sacheta Kriplini — later Independent Inda's first wuran Chief Mairier His career then tack him to Batteria Hindu University and Andhra University. On Idler's Vice Chancellor was Surveyable Red-

halorishman, the future President of India. At BHU, Chewla rest the budding Brench mathematicism Artire Well, who had accepted the Chair at Aligary Ma Unaversity for two years. Ander lakes became any of the most influential mother mulicians of the 20th contary, co-founded the legendary Bourbaki group, and reshaped 20th-century mathematic

Emisted by his menter JE Littlewood



clutege, Lahoru (corty 1942k). man Chowle invested, control with shadows and coloring are all Govern



sia (1301-1995) Prof Savedorus Chr



Fred Hanning Septe (1902-2988)



Prof RP Burstein (1905-2005)

so the receit preceding hedion reatherest cian since Rarraredon, Chowla joined Gevernment College, Labore, si probiner in 1808. He was also inducted into the Indies Education Service (1998), at Wel-tels, his perigraduals touching had already hi a speck in the young CR Rec (CSR), later holled as a "Being legend" by the American Statistical Association and a recipiest of the Podrus Vinbuchura

The teacher (Servi) and student CRR sont on to collaborate on several research pers in the 1949s. In 2022, the resolution papers in the 1969s. In 1965, with the leterna-CRR (1925-2000) was assurded the leterna-Soral Prize in Statistics, as hencur offers described as the Nobel Prior of Statistics.

At Laboro, Chowla's first research who tient was Pope Chord Adack, who had topped MA in Muthemates in 1894. Autock published extensively in number theory with and well-out Chewin, before secong to astrophysics and statistical physics. In 1942, he joined the Physica Department of Delhi University and usen carned a doctarate in physics

Servi Chowla's pounger brother, Index who also werked with him on number the ory at Labore, had completed his FeD at Cambridge under H Holteneaus (1941, bull his bedieved cover was trapecally out short by the unimedy death the following year

Charely mentaged a remarkable galaxy of students and collaborators at Lab Hanstig Gopta, About Mapel Moon, Doğul Singly, HK Tabout, RP Barelach, AC Leiber, Mahendra Rei, PC Kahili, and Addess Salars, among others, Harrand, who middled under Boroth father on an MA student from 1925-bit used in visit, and the Republic of Improving the new ned shadens aren reason, used in visit Servicio, Bareladi ael arenad nella per-Sect 80,000 in the MA in Mathematics enserlacion in 1945. Abdon Balam wen the Nobel Prim in Physics in 1970.

PC Robb and RP Burelish were later ewarded the Podent Rheabas; the latter served as Vice Cheaceille of Parjab University from 1985 to 1981 and remained a trustee of The Tribune Trust, Kohliunit us to honories to founder and the first CEO of This Consultancy Services OCS). Ru Numer Talwar across as dulerest of the State Bank of India. Jugdish Latter became Deputy Gover-nor of the Reserve Bank of Judia.

Maherdra Bay creenced as one of India's most exhibited structural engineem, redisherating with Le Corbuster an the planning of Churchgush and design ing icone buildings such as blanke's Union Karan, the Hollot Nations of Propell Maidan in Delhi, and the Solar Jung Museum to Hydersbud.

At Laham, Chords dispressed one of Remangan's conjectures using Harwing Outsia's partition tables. As a schooling Hanaraj had devised a 100-year calcredar that were a model at the British Empire Exception. He sureed the first PhD ever

worded by Parjab University Ohea in Labore) in 1896. Gupts had sweatchire, bypenviller-like handwithing, which won han the race permission to submit his fresh handwritten.

After World War II, Chevela help soh secure a temperary post si Govern-ment College, Hochistrus, where Hannel was the head. With no place to stay, Romhab was taken in by Blancing, who shared has one taken in sy cannot, we can has his home for three months. Barrish was called to Daths by DS Kothani ta fill the period wanted by PC Ashack. He received unriamed support from both Kathori and Autuck, and on their recomrecodation, applied for the 1861 Exhibition Scholarship, under which he carried his PND trum the University of Charlesidge in 1930. In 1951, he joined the University of Delhi so a Research Follow, and was later appointed as a Render at Purple Conversi

O. Hoshiurpur, in 1982. With stays at the institute for Advanced Study, Princeton (1903-1964) and the University of Noise Dume (1865) 1850), Bumbah rekamed to help milablish a dynamic Department of Mathematics of Purgob University, Chandigarh, work ing closely with Hasara Gopta. Their framashaplaid the foundation of the contensition of the Purpob School of Madie-

matics in Independent Indi-Burston's portnership with Harconi was extraordinary in an analyzatic world often

(tought with ego. Along with TP Swin-vacon, and Luther, they elevated the Department of Mathematics and helped it sam the USC Centre of Advanced Study (CAS) status. In 1940, the Overcount of India established the National South for Higher Mathematics (MSSM), and this rs for Admiaced Study was about to

Court of vegloral outles.

Memoriale, in July 1911, Chevia left.
Labors with his family, solve by New Mich. Latine with his name, corresponding to inter. Armod with gloring incommenda-tions from Hardy, Davenper, Mariala, and Latinoved — who had builed Man as "the most premising Indian methorealistics. Cardindays has had along the wis"— his applied for posts in India. Not, denote such praise, Independent India. Not denote used praise, Independent India. Not we place for penies, Inch

he Labore professor. After Independence, faculty positions After Independence, fundry positions were control — Sho a largel previous devictions been book University but no machematic independence and many television and the Collect Shoraca, but she surviviness Chrosh, who had only been then had his accelerate justing by their like in closed Panysh University description for the collect Panysh University description and behavior of the collect Panysh University description and behavior of the collection of the region's achieves differently indicate and the collection of the colle

very differently.
In 1948, Cheudalish for Princeton's Iroli-In 19th, Countries or regulations to that for Advanced Stody, Regulations to the US for foreigners left the family in financial strain. They had arrowed in the US in the middle of a banch white:—Sel-borg remainbowed has well Hamandowing the snaw in this sandals, renywing on the landress of strangers. Demath 8. al. Chowle's mathematics pure them

Savogin and purpose.

In the US, Chavis was rabbing shoel-ders with giants like Steps!, Selberg, Erden, and Turan. He half a daming soner – 300 papers with 60 collaborators. 35 PolD students fineluding his finighten Promital, and theorems that carry but name: the Chevila-Selberg formals, the Bruck-Byers-Chrosis theorem, the Mina-Chowla sequence. His collected works, sublished in 2006 by the Deiversity of Meetreal, truce a journey that began in Labora's classrooms and ended on the verid mathematics stage

To calcheste the legacy of Prof Choula Perials University instituted the Armed Servedamen Chavin Memorial Lecture The first lecture, delivered 10 years ago by Public Medallist Prof Marqui Bhangaya on ean of the 16th beth weaven-ry of Prof SP Barrisch, continues to imprior budding scholars.
The Purple School of Mathematics

shaped leaden acress discrimes -- Abdus Salara, PC Salai Raj Kasar Thinas Mahan-dra Raj — gud serbin radi srache. PU ta-sity Maj SK Techan. IBS Phota SK Makk. and Thi Sheary curred the Sharts Sensory Bhainagar Phaz. Pur PU mathematicana served as providents of the Indian Mathematical material Society. The School than and accordscannor, indensing Juniung, and originest-

ing as meets a part mathematics.

The contributy of the Punjah School is not morely a columbia of formulas or not meeting a consecution to constant of theoretics, but of the business upon that magnetics them — a contary of member-ship, persecutions, collaboration, and currently period from one goneration to the sunt. A hundred years of tatellers,

the test. In transferd years is transfer, and enthaling legists.

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From chalk to chaos: Stress management for teachers

QUARRATUL AIN IFRAH

What if stress is not about the head and worrying, as commonly understood? The word 'stress' has been receiving a lot of attention with the rise of new work ethics, and the simultaneous increase in psychological studies, but the mere popularity of the word has done little to manage its effects. The way we understand stress needs to be completely redefined.

We cannot help but agree that teaching as a profession is highly stressful. The teacher is required to do high amounts of work in short periods, blur the lines between work and personal life, and perform constant "emotional labour". He/ she must appear calm and encouraging before the student, suppressing their own emotions at all times.

AI and technology have created a sudden generation gap between teachers and students, leaving little time for teachers to catch up and creating a very overloaded, confused work environment. Therefore, they must understand stress as a concept and the strategies of managing it.

In the simplest terms, stress is the imbalance between the demands placed on an individual and his/her ability to handle them. Any task beyond an individual's resources is deemed stressful, and the resources can be physical, mental, or material.

The cause of stress can hence be defined not only by the difficult event or situation, but also by the personal interpretation of that event, which determines whether it is perceived as difficult or easy.

The personality traits of the individual, whether he is a perfectionist or a procrastinator, His genetic or hereditary characteristics and also the social pressure placed on the individual in his/her family or work setting, to perform a given task in a given time with high proficiency, all lead to the experience of stress.

Many consequences

The part that makes stress intolerable and disables the person from doing any other task is, of course, its aroused state. The human body is designed for survival, and anything that threatens it is a source of stress. It does not differentiate between the sight of a tiger and an important work deadline, so any stressful event pushes the body into a fight-or-flight state, characterised by a high heart rate and BP, tense muscles, digestive issues, or sleep disturbances.

The aroused state uses up all of the body's energy sources, so if the body is under stress for a long time, it eventually shuts down. The individual faces chronic fatigue, and at one point, the mental processes dysfunction as well. Concentration, memory, mood swings and feelings of frustration arise. The person may then depend on the use of substances like excess coffee, drugs, tobacco or alcohol to cope. He begins to avoid more respon-

sibilities, becoming helpless and overwhelmed, which in turn increases future stress. The cycle continues.

But what if there were no exams? No pressure at all? The result would not be productive or healthy either, because a limited amount of stress is required at every stage to enable growth and learning. However, when this limit is crossed unreasonably and the individual is expected to perform beyond their abilities, the stress becomes harmful. Harmful to the extent of death.

What can we do differently?

So if unchecked stress is that fatal, it is not only necessary but immediately vital to understand how to manage it. We may begin by understanding that stress is not a disease or an enemy; it is simply our body's call for balance —a signal of overheating. If we listen to the call, the situation is easily faced.

Stress management may require different methods, depending on the extent and nature of the stress, such as direct problem-solving if the stressor is addressable, or emotion-focused management to change our negative emotions if the event is out of our control. Cognitive reframing also allows the person to shift their outlook to a more positive one, so that the same event is perceived as a challenge or opportunity rather than a threat, thereby reducing stress.

Some instant techniques like deep breathing/

box breathing, grounding exercises (5-4-3-2-1), or brain dumping can help to provide immediate relief in the middle of a stressful situation by calming the body and reminding it that you are still in control. If the stressor or event is likely to be long-term, lasting years, it requires a complete change in lifestyle and mindset to adapt.

Solutions in the long run

This may include seeking relief through spirituality—a belief and faith that allows the person to think beyond their material situation and be patient. Regular physical exercise, a healthy diet, and a sleep schedule prepare the body for future stress and reduce its effects. At the same time, activities such as hobbies, reading, emotional expression, and social interaction may strengthen the mind and its ability to cope with stress.

Time management is important for stress prevention, as more than half of the pressure stems from a lack of time. If important tasks are performed before they become urgent, the likelihood of stress is eliminated. Long-term lifestyle changes help reduce stress.

Stress is inevitable, and for teachers who carry the weight of so many futures, acknowledging stress is not weakness; it is wisdom. So let us strive not only to eliminate stress, but also to recognise and respond to it as it requires.

(The author is based in Kalaburagi)

HINDUSTAN TIMES (P-12), 03 NOVEMBER 2025

India's reforms moment in science and technology

Saurabh

Srivastava

he global landscape is undergoing a profound transformation. Geopolitical alliances are being redrawn, economic borders are tightening and tariffs, technologies, and entire supply chains are being weaponised with impunity, in this new world order, national sovereignty has become synonymous with technological sovereignty.

The Narendra Modi government's response to this changing landscape has been pragmatic and ambitious. Over the past decade, it has laid the foundation for a modern innovation economy — expanding its digital public infrastructure (DPI), opening strategic sectors such as defence and space to private enterprise, and nurturing the world's third-largest startup ecosystem. Now, the Prime Minister has decided to tackle the chronic underinvestment in research and development (R&D).

In 2024, India's total R&D expenditure stood at about \$18 billion, less than one-

twentieth of China's \$450 billion, and even below Israel's \$25 billion. To achieve leadership in strategic and critical technologies. India must target at least \$200 billion by 2035, roughly 3% of our projected GDP. This will require a significant increase in government funding and a greater commitment from industry, which today contributes to only a third of the country's R&D spend, the opposite of the global trend. The challenge is considerable

trend. The challenge is considerable but not insurmountable.

India has a strong scientific and institutional base. Our ITIs and IISc. Bengaluru, now produce more postgraduate scholars than undergraduates. The scale and quality of R&D at these institutions have also markedly improved. The following examples illustrate this trend: IIT Madras has created the world's most detailed 3D images of the human foetal brain at a resolution 10 times sharper and at a tenth of the global cost; IIT Kanpur has developed an artificial heart projected to cost one seventh the price of the current market leader; IIT Bombay has pioneered CAR-T cell therapy for cancer, slashing treatment costs for Indian patients by up to 90%; And, IISc Bangalore has created a brain-inspired analog computing platform with 16,500 conductance states in a single molecular film, revolutionising Al computing

This surge in innovation has been matched by the government's policy actions. The new framework for the ease of doing research has removed layers of approvals and given scientists greater autonomy. These reforms have been compared to the 1991 economic liberalisation moment. The creation of Anusandhan National Research Foundation (ANRF), modelled in part on the US's NSF, is set to reshape India's research landscape. With a projected ₹50,000 crore budget over five years, it will fund basic and applied research across universities, colleges, research institutions, and R&D labs with industry collaboration at its core.

If the ANRF is about capacity building, the new El-lakh-crore Research, Development and Innovation (RDI) Fund aims to catalyse private-sector R&D investment in strategic and emerging technologies. It will offer longterm, low-cost financing, including equity and hybrid instruments, to corporates, startups, and FROs developing breakthrough technologies in fields such as semiconductors, quantum computing, space, biotech, energy, and more. Crucially, the fund will be managed by professionals, not the government, with investment decisions made by independent commitees of experts from finance, industry, and echnology. In design and intent, it presents a historic upportunity for government and industry to work together and innovate across sectors. The department of science and technology's extensive consultations with all stakeholders augurs well for an efficient execution. The Fund has the potential to transform India's deep-tech ecosystem and provide the country the strategic autonomy it needs in a world where China is trying to develop and enforce a new set of global trading norms.

There are historical parallels worth remembering. Not many of us realise that the US was not the global leader in technology and innovation at the end of World War II. Its transformation began with SCIENCE: The Endless Frontier, a 1945 report commissioned

by President Roosevelt and authored by Vannevar Bush, which led to the creation of the US's National Science Foundation (NSF) and other agencies. It argued that to combat disease, ensure national security, raise living standards and create new industries, and jobs, the government must create scientific infrastructure, develop talent, and incentivise the private sector to invest in R&D. This vision powered

America's post-war dominance. For India to achieve PM Modi's vision of a Viksit Bharat by 2047, innovation and technological excellence must become a national mission.

The government, at the highest level, has played its strongest hand yet. Now, others too must rise to the occasion. All arms of government must recognise that this is a critical national bet, which demands urgency, conviction, and courage. Occasional mistakes are inevitable in breakthrough research: They should be treated as learning, not lapses. If implementation becomes risk-averse, the opportunity will slip away.

Countries around the world have found ways to give domestic technologies preferential access to their markets, allowing their companies to hone their products to perfection before taking on the world. Unless we do the same, many of our potential future global winners may be stillborn and our path-breaking initiatives may underachieve

their potential.

In global innovation ecosystems, from the US to China, Japan, and South Korea, the most valuable companies are built on intellectual property and human capital. In contrast, India's industry has historically underinvested in proprietary innovation. They have the financial and organisational muscle to take cutting-edge research from lab to market. They must invest more in R&D, collaborate with academia, acquire or fund promising start-ups, and place more faith in indian science. Our start-ups are already showing the way.

India's digital public infrastructure has already shown how visionary public policy, executed at scale, can transform governance. The RDI Fund has the potential to do the same for innovation. If government, industry, and academia pull together, the RDI Fund could be

the start of a new innings.

Sourabh Srivastava is ca-founder and former chairman. Nesscom. The views expressed are personal

The silent burnout behind passionate teaching today



SAKSHI SETHI

2_{ND} OPINION

Once upon a time, passion was the holy grail of teaching. "Love your subject," they said. "Pour your heart into it," they urged. And so, teachers did. They adored their subjects, lived and breathed them — until that very love began to suffocate their creativity, flexibility, and sometimes, their sanity. Today, as education races through the digital age, one can't help but wonder has our obsession with passion begun to strangle the art of great teaching itself? Picture the archetypal passionate teacher — eyes gleaming, voice quivering with enthusiasm, overflowing with facts and faith that their subject is the centre of the intellectual universe. A noble image, yes, until that passion turns classrooms into pulpits and lessons into

sermons. Across schools and universities, lectures often sound less like invitations to learn and more like love letters to Shakespeare, calculus, or the cell structure.

Meanwhile, students sit politely — half intrigued, half lost — wondering why they must care so deeply about the mitochondria when their own lives feel like a battery running low. Here lies the irony: passion, once the spark that ignited curiosity, can easily become a wildfire that consumes it. The more tightly a teacher clings to their beloved subject, the less space remains for humour, empathy, or adaptability — the very qualities that make education human. What emerges are echo chambers where teachers speak at students instead of with

The problem deepens because our education systems often reward this tunnel-visioned passion. Institutions celebrate the expert — the specialist who knows every detail, quotes every theorist, and grades with precision. They are promoted, praised, and crowned "Subject Head."

them, and classrooms lose their air of discovery.

Yet, in this worship of expertise, we forget to give them time to breathe, explore, or play. A literature teacher may never code; a physics teacher may never discuss ethics; an economics teacher may never trace the poetic rhythm in trade cycles. Passion, in its most noble form,

becomes a gilded cage — trapping educators within the narrow walls of their discipline. Then comes the emotional cost. Passion, when stretched too far, becomes

r. Passion, when stretched too far, becomes exhaustion in disguise. Teachers pour themselves into lesson plans, grading, and endless professional development until there's nothing left to pour. Burnout arrives dressed as dedication. What they often need is not another seminar on pedagogy, but a quiet evening, a laugh, and the permission to not while. Passion without pause isn't commitment.

care for a while. Passion without pause isn't commitment —it's slow martyrdom.

Yet all is not lost. Passion can be redeemed — through balance, curiosity, and humility. Teaching isn't about displaying how much one knows; it's about inspiring how much students want to know. A passionate teacher becomes extraordinary when they step off the pedestal and explore new terrains. Imagine a maths teacher weaving poetry into symmetry or a biology teacher linking genetics with ethics. The goal isn't to dilute expertise but to humanise it — to remind students that knowledge thrives when it crosses boundaries. The finest educators don't worship their subjects; they dance with them—leaving room for laughter and discovery.

The writer is an educator and a councillor.

देश की प्रगति में क्या है NEP की भूमिका

भारत ने विश्व को गीता का कर्मयोग, वेद व उपनिषदों की प्रज्ञा जैसी महान दार्शनिक अवधारणाएं और जीवन



दिनेश प्रसाद सकलानी

उपयोगी विचार दिए हैं. जो विश्व कल्याण के लिए आवश्यक हैं। गुरुकुलों, विद्यापीठों में दी जाने वाली शिक्षा का ध्येय था-मनुष्य का सर्वागीण विकास। शिक्षा सर्वसलभ थी

और आत्मनिर्धर एवं स्वस्थ समाज की आधारशिला भी।

हर गांव में पाठशाला धर्मपाल अपनी प्रसिद्ध कृति 'The Tree: Indian Beautifull education in the 18th century' में लिखते हैं कि तब भारत के लगभग हर गांव में पाठशालाएं थीं और वहां गणित, व्याकरण, दर्शन, खगोल, साहित्य तथा धर्मशास्त्रों की उच्च स्तरीय शिक्षा दी जाती थी।

मैकाले की साजिश । लॉर्ड मैकाले की वर्ष 1835 की शिक्षा नीति ने भारतीय शिक्षा की जड़ों को काटने का प्रयत्न किया। उद्देश्य था भारत में ऐसी

पीढ़ी तैयार की जाए जो रक्त और रंग से भारतीय हो परंतु रुचि, विचार और भाषा में अंग्रेज हो। परिणाम सबके सामने है। स्वतंत्रता के बाद शिक्षा नीति को प्रासंगिक बनाने का प्रयास तो हुआ लेकिन जिस क्रांतिकारी परिवर्तन की अपेक्षा थी, वह पूर्ण नहीं हो पाया।

राष्ट्रीय शिक्षा नीति 2020 । वर्ष 2014 में प्रधानमंत्री नरेंद्र मोदी ने देश की बागडोर संभाली तो स्पष्ट किया कि विकसित भारत की परिकल्पना तभी साकार होगी जब भारत का युवा संस्कारित, सक्षम, वैज्ञानिक दृष्टियुक्त और वैश्विक प्रतिस्पर्धा में अग्रणी होगा। उन्होंने देशवासियों के समक्ष 2047 तक विकसित भारत का लक्ष्य रखा है।

पंचकोशीय दृष्टिकोण । राष्ट्रीय शिक्षा नीति 2020 ने शिक्षा को केवल ज्ञानार्जन का साधन न मानकर जीवन की विद्या के रूप में प्रतिष्ठित किया है। इसमें पंचकोशीय दष्टिकोण को मूल आधार माना गया है - अन्नमय कोश द्वारा शारीरिक स्वास्थ्य, प्राणमय कोश द्वारा ऊर्जा और जीवन शक्ति, मनोमय कोश द्वारा मानसिक संतुलन, विज्ञानमय कोश द्वारा तर्कशीलता और आनंदमय

Al Impou

कोश द्वारा आत्मिक सुख । इन सभी स्तरों का संतुलित विकास वास्तविक अर्थों में विद्या कहलाती है।

गांवों का अर्थशास्त्र । इस संदर्भ में महात्मा गांधी और ठाकरदास बंग के मध्य का संवाद ध्यान में आता है। ठाक्स्दास बंग गांधी जी के आश्रम सेवाग्राम के पास ही रहते थे। वह अर्थशास्त्र पडने अमेरिका जाना चाहते थे। प्रवेश और छात्रवत्ति की भी व्यवस्था हो गई थी। प्रस्थान से पहले वह आशीर्वाद लेने सेवाग्राम में गांधीजी के पास पहुंचे। उन्हें अपना इरादा बताया और उनसे इजानत मांगी। गांधीजी ने सिर उठाकर बस इतना

कहा, 'अर्थशास्त्र पडना है तो अमेरिका मत जाओ, भारत के गांवों में जाओ।' यह सुनकर ठाकुरदास बंग ने विदेश जाने का विचार त्याग गांवों में रहकर किसानों का जीवन समझने तथा राष्ट सेवा करने का संकल्प लिया।

संतुलन पर जोर । राष्ट्रीय शिक्षा नीति 2020 और राष्ट्रीय पाउयचर्या 2023 के आधार पर निर्मित नई पाठयपस्तकों में राष्ट्रप्रेम, राष्ट्रीय गौरव, ज्ञान और विज्ञान आदि का संतुलित समावेशन किया गया है। इससे विद्यार्थी केवल परीक्षा पास करने वाले ही नहीं, अपित जीवनोपयोगी ज्ञान अर्जित करने वाले बनेंगे।

सामर्थ्य की पहचान | NCERT की पस्तकों का जब भारत के 30 करोड़ विद्यार्थी अध्ययन करेंगे तो यह अध्ययन मात्र पठन नहीं होगा, अपित राष्ट्रसेवा. भारतीय ज्ञान परंपरा, आत्मगौरव, 'स्व' के बोध का भी भाव ग्रहण होगा। यह आत्मबोध ही राष्ट्रबोध का बीज है। यही वह प्रक्रिया है, जिससे विकसित भारत का निर्माण होगा, एक ऐसे भारत का जो आत्मनिर्भर भी होगा और विश्व के लिए पथ प्रदर्शक भी।

(लेखक NCERT के निदेशक हैं)

Rethinking scientific publishing in the age of AI

* Commercial data sharing agreements mean researchers' intellectual property is being monetised twice: first through subscriptions, then through Al partnerships, while they continue to be denied control of their work

n India, as in many parts of the world, public money is the main funder of scientific research. Governments invest heavily in laboratories, equipment, and salaries for * researchers. Yet the results of this publicly funded research are usually published in journals owned by just a handful of commercial publishers. These publishers don't pay the authors or the peer a reviewers who evaluate the work. Both contribute their time and expertise for free. However, the publishers then charge high subscription fees for access to these journals, effectively making the public pay twice: once to fund the research and a second time to read it.

Democratising research

Against this backdrop, the Budapest Open Access Declaration in 2002 set out a list of bold principles. The declaration challenged the deeply entrenched practices of the scholarly publishing industry, which had long excluded vast sections of the global research community from accessing knowledge using expensive paywalls. The declaration came as the open access movement scarted questioning why, in a digital age in which printing and postage no longer dictated costs, acress to knowledge remained behind expensive subscription paywalls. The declaration ignited a movement that promised to democratise access to scientific knowledge, ensuring research funded by the public would also

be available to the public.

More than 20 years later, this vision of equity and inclusivity in knowledge sharing remains largely unfulfilled Adapting to the winds of change. commercial publishers now promote open access, but again at a very high cost. Instead of subscription barriers, researchers now face towering Article Processing Changes (APCs), often ranging from \$2,000 to \$10,000 per paper. Many institutions in the Global South, and even in wealthier nations, continue to be priced out of both publishing and

accessing research.

In India, the government has attempted to address this inequity through the 'One Nation One Subscription' (ONOS) initiative: starting from 2025, ONOS has provided access to journals from 30 major International publishers to all researchers in publicly funded institutions. While the cost of this nationwide deal is substantial, especially given that over half of the global research literature is already available through open-access routes, as seen from the scholarly database Web of Science, the intent behind ONOS remain mendable. It represents a step toward broadening access beyond elite

Yet it also compels us to ask deeper questions. Should we continue paying these large sums to foreign publishers to access knowledge that our own researchers produce, again with public money? Shouldn't that knowledge at the least be freely accessible to every citizen, empowering them with the scientific temper needed in an era rife with misinformation? Perhaps most importantly: where is the spirit of an Atmanishhar Sharat in this enterprise?



Ultimately, while the ONOS initiative may carry significant promise, it still leaves many foundational questions

unresolved. As we mark International Open Access Week, which is an annual global campaign to promote open access, the year's theme, 'Open Access Week 2025; Who Owns Our Knowledge?', prompts deeper reflection. In India, where publicly funded research drives much of science and social innovation, the assumption that the scholarly output belongs solely to commercial entities that

host them merits scrutiny. **Enowledge and ownership**

Copyright transfer in academic publishing is a practice where authors formally transfer the copyright ownership of a scholarly work to the publisher. This practice began to take shape after copyright laws such as the U.S. Copyright Act 1976, granted authors exclusive rights to their original works, thus motivating publishers to acquire and hold copyrights to control the distribution of work in journals and for any subsequent commercial use. Historically, this transfer was viewed as essential for publishers to manage permissions, reproduction, and dissemination. This was especially so in the subscription-based models, where publishers monetise articles by requiring readers to subscribe to the journals they publish. Over time, such copyright transfer agreements became standard,

necesskating authors to relinquish their exclusive rights on their work if they wanted to publish it in scholarly journals.

The landscape today is more varied. While with traditional subscription-based journals, publishers follow the requirement of complete copyright transfer, the rise of open-access publishing has changed the dynamics. ully open-access journals generally allow authors to retain copyright but apply licences, such as the Creative Commons Attribution (CC-BY) which permits free and broad reuse with attribution to the original creator.

But most authors sign copyright transfers due to the pressure to publish within the prevailing academic culture. This practice is evidently not conducive to serving the interests of research dissemination and reuse or the authors themselves. Recent initiatives like 'Plan 5' advocate for authors retaining copyright to promote wider accessibility and scholarly communication without unnecessary restrictions.

Authors are also encouraged to carefully review copyright transfer agreements to understand retained rights and publishing conditions.

Creative commons licences

Authors can publish their papers using various Creative Commons (CC) licences to clearly define how others may reuse their work. Three licences in particular are notable:

(6 CC-BY (Autribution) allows a preson to share the work and reuse or even adapt is, even for commercial purposes, as long as the original author is credited; 60 CC BY-NC ('Attribution-NonCommercial') allows reuse but not for commercial purposes, and (iii) CC BY-NC-ND (Amribution NonCommercial NoDerivatives'), the most restrictive, allows reuse but forbids both commercial use and adaptation. Publishers often promote the use of the CC BY-NC-ND licence, but in practice, however, this licence limits knowledge reuse by prohibiting translation, remixing or text mining - all actions vital for educational and technological innovation.

Retaining copyright When authors transfer copyright to publishers as part of publication ngreements, they often lose legal control over how their work is accessed, reused or shared. Large publishers like Elsevier, Wiley, and Springer typically require copyrights to be transferred for subscription-model journals, giving the publisher exclusive rights to distribute and profit from the content. As a result, authors face legal dilemmas over archiving their own articles on institutional repositories or sharing them publicly, ultimately limiting their visibility. On the other hand, authors who rerain copyright (or the ability to share their work under an open licence) are empowered to share, adapt, and reuse their own scholarship without

institutional or commercial restrictions. Commercial publishers like Elsevier, Wiley, Springer, and Taylor & Francis and society publishers like the American Chemical Society use restrictive licences in their subscription models, granting publishers legal exclusivity to monetise

From 2024 or so, major publishers have also been selling scholarly content to Big Tech companies to train their artificial intelligence (Al) models, often without nuthors' explicit consent. Taylor & Francis's deal with Microsoft alone is \$10 million. The global Al datasets licensing market has been valued at nearly \$486 million in 2025.

Such commercial data sharing agreements mean researchers intellectual property is being monetised twice: first through subscriptions, then through Al partnerships - while they continue to not be compensated and be deried control over their own work.

What authors can do Authors have three courses of action in front of them.

First, they should self-archive preprint versions of their papers and accepted mamascripts in preprint and institutional repositories. Second, they should request additions to publishing contracts with, journals before they submit their popers, in order to retain some rights (they can use the SPASC Author Addendum template, for instance). Third, they should advocate for institutions to develop rights retention policies that allow them to automatically openly licence the institutions' scholarly output

For future submissions, authors may also prefer using the CC-BY licence or institutional open access routes that ensure their papers are available for the public to access for free and to prevent unauthorised commercial exploitation.

In the spirit of Open Access Week, the question 'who owns our knowledge' is not just a theme: it's a call to reclaim imellectual sovereignty.

The future of equitable scholarship depends on authors, not corporations, owning and sharing the knowledge that shanes society.

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Learning for Life: The Habit That Keeps You Relevant

DR SANKU BOSE

ot too long ago, education was seen as a phase - something we finished before work began. A degree was the gateway, and once you had it, your career seemed set. That world no longer exists. The pace of change today is relentless. The shelf life of most skills is shorter than ever, often less than four years. What you master in 2025 might be obsolete by 2029. Every profession, from teaching to law, from healthcare to design, is being reshaped and upended by new tools, new expectations, and new ways of thinking. Nowhere is this transformation

more urgent and relevant than in India. We are a nation standing at the crossroads of extraordinary opportunity and immense responsibility. With one of the youngest populations on earth, ladius promise lies not just in its demographic advantage but in how effectively we turn that youth into a continuously learning, constantly evolving workforce. The dream of "Viksit Bharst 2047" will rest as much on our learning culture as on our

infrastructure or economy.
Lifelong learning is no longer an academic ideal. It is a survival strategy in the Al era. Machines can now write code, design graphics, analyze data, and even generate music. But what they cannot do is think critically, empathize deeply, or act ethically. To remain relevant, human beings must master what AI cannot - creativity. judgment, emotional intelligence, and moral courage - all of which require continuous learning and reinvention. In this sense, the AI revolution does not diminish humanity; it demands that we become more human.

India has several reasons to embrace lifelong learning as a notional mission. First, digital disruption is creating entirely new kinds of work even as it eliminates old ones. The World Economic Forum (WEF) estimates that 40 percent of core skills will change within five years. Every career — from doctors using Al diagnostics to farmers leveraging drones - will demand new literacy. If India can upskill its youth and midcareer professionals for the Jobs that

don't yet exist, it can lead the global digital economy rather than chase it. Second, our demographic advantage could easily turn into a liability if our talent pipeline stagnates, Having a young population is not a generatee of progress; having an adaptable one is. Continuous education — from technical reskilling to emotional resilience will determine whether Indian demographic dividend becomes a

driving force or a missed opportunity.
Third, our cultural heritage already
gives us a philosophical head start.
The Indian knowledge tradition never
saw learning as time bound. In the
Consideration of the color o Guruloil system, education was not a transaction but a lifelong journey of self-realization. The world is now circling back to what India always knew: education is not a phase of life, but the essence of it.

Lifelong learning also extends beyond employability. It is the

foundation of emotional strength and social harmony. In a time who our youth face the twin pressures of competition and digital overload, continuous learning builds not just smarter individuals but stronger minds. It encourages reflection, empathy, and ethical awareness qualities that make us not just job

This philosophy is now finding institutional expression at Sister Nivedita University (SNU), through the launch of our School for Lifelong Learning on January 1, 2026. Inspired by the vision of Sister Nivedsta and Swami. Vivekananda, the school aims to awaken human potential through knowledge, compassion, and service It represents a modern reimagining of their timeless mission - to educate not merely for livelihood but for life itself. Learners of all ages — from school students to professionals and senior citizens — will find pathways to grow intellectually, emotionally, and spiritually. Programs will co future skills such as Al and data literacy, digital safety, financial intelligence, green technologies. and entrepreneurship. But equally important, they will meture emotional and spiritual intelligence mindfulness, resilience, ethical leadership, and a service mindset rooted in Indian knowledge systems

LIFELONG LEARNING

ALSO EXTENDS BEYOND EMPLOYABILITY, IT IS THE FOUNDATION OF EMOTIONAL STRENGTH AND SOCIAL HARMONY

Ultimately, lifelong learning cannot just be an educational policy; it is a social movement. Parents must encourage curtosity over marks. Youth must embrace learning as a hobit, not a hardle, industry must partner with academia to ensure that upskilling hosps pace with innovation. Society as a whole must see education as a shared responsibility — because the classroom of the future is everywhere, and the students are all of me.

The nations that thrive will not be those with the best technology alone, but those with the most adaptable minds. The world shall belong to those

who keep learning — not because they must, but because they want in. As Swami Vivekananda said more than a century ago. "We want that education by which character is formed strength of mind is increased." formed, strength of mind is increased, intellect is expanded.... Those poignant words, once spoken for a young nation finding its feet, now speak just as clearly to a generation finding its own future!

The author is the Vice-Chancellor of Sister Novedina University and Group CEO, Techno bulia Group: A visionar leader, he is shaping future-ready

minitutions and inspiring students to

CAN TEACHING AI FROM CLASS 3 CHANGE HOW INDIA LEARNS?

CBSE's move to introduce AI from Class 3 is a strong signal that education is moving from rote learning to skill-based learning, which is essential for India's digital future

AMINDITA ACHARYA

th Artificial Intelligence (AI) already transforming every industry, it's time to wake up before this gamechanging technology takes over our jobs. And if you're still someone who says, "Al is the future," here's the truth, it's not the future anymore. It's already here, reshaping and rewriting your future right now. Al is the present. And if you don't learn how to work with it, it might just make sure you don't have a place in tomorrow's workforce. No, this isn't a warning. It's reality. A new NTTI Anyog report warns that as Al expands its footprint, India's tech sector could see nearly two million jobs disappear by 2031. But it's not all bad news. The same technicopy is also set to create around four million. new roles over the next five years. That's the silver lining and it's why Al literacy programmes are more crucial than ever if we want a future that's both stable and sustainable. In a landmark announcement recently, the Department of School Education & Literacy (DoSE&L), Ministry of Education, has reaffirmed its commitment to advancing AI and

Computational

Thinking (CT)



BENEFITS OF TEACHING AI AT THE SCHOOL LEVEL

- Early awareness
- > Future readiness
- Critical thinking

Creativity boost

- » Ethical understanding
- · Bridges learning gaps
- > Improves digital literacy
- * Encourages collaboration
- · Builds confidence

and inclusive curriculum under the broad ambit of the National Curriculum Framework for School Education (NCF SE) 2023 through a consultative process. This initiative marks a nascent yet significant step towards the ethical use of AI to solve complex challenges.

as the technology will be organically embedded from the foundational stage, beginning in Grade 3.

Now, it's interesting to note how CBSE has been introducing AI in schools gradually. Like in 2019-2020. AI was introduced in Class 9 as an optional skill subject. Later, in 3620-2021, AI was introduced as a skill subject, subsequently extended

Akshal Agarwal, co-founder of Nature Nurture, a curriculum design. organisation, which creates

learning ecosystems for K-12 schools, believe the introduction of Al from Class 3 omsagds marks a major shift. in India's education vision. It aligns perfectly with NEP 2020, which focuses on developing future-ready learners equipped with critical thinking and problem sulving skills. Early

exposure to Al will not only help students understand technology but also encourage creativity, ethics, and analytical thinking from a young age. In the long term, this move will strengthen lodin's education economy by creating demand for new learning tools, digital content. and teacher training programmes. Globally, Al-related jobs are projected to grow by 40% by 2030. and India's early push in schools can give its students a head start. It's a strong signal that education is moving from rote learning to skillbased learning, which is essential for the country's digital future," he said

During the stakeholder consultation recently of DoSE&L. Sanjay Kumar, Secretary, DoSet.

emphasised that education in Al should be treated as a basic universal skill linked to The World Around Us (TWAU). He noted that the curriculum must be broad based, inclusive, and aligned with NCF SE 2023, adding that every child's distinct potential is our priority. "Our job as policymakers is to define the minimum threshold and re-evaluate it based on the changing needs," be added.

In July 2025, data presented in the Raiyu Sabba revealed a sharp rise in the number of CBSE-affirmed schools teaching Al. For Class 9, the count has surged from just 235 schools in 1019-20 to 4,543 in 2024-25, an incredible jump of over 1.800%. For Class 11, the number grew from 80 schools in 2020-21 to 944 this year, marking a rise of more than 1,000%. Now that's a truly encouraging sign. According to Amurag Gupta, co-founder of STEMROBO Technologies, the introduction of All from Class & is a big and exciting change for India's schools. It will take learning beyond books and help children start thinking creatively, solving problems, and indestanding how technology actually works. "As Al becomes in important part of every career, starting early will help students grow up confident with new technologies instead of being afraid of them", he added. But there's also a challenge that the industry is taking seriously. Many parts of India's education system still lack the infrastructure. and teacher training needed for in-depth Al learning.

"Many schools, especially in Tier-2 and Tier-3 cities, still lack adequate computer labs, internet connectivity, and trained teachers. To close this gap, the focus must shift to capacity building and accessibility. There should be a phased rollout, starting with pilot programs that help teachers get comfortable with All concepts through simple, activity-based training. Government-private collaborations can help develop lowcost AJ learning tools and shared digital infrastructure. Additionally, introducing micro-training modules for teachers can make digital skills more practical and scalable, especially given that India has over crore educators to train," vaid

Meanwhile, Kumar highlighted that teacher training and learningteaching materials, including NISHTHA's teacher training modules and video-based learning resources, will form the backbone of curriculum implementation. Collaboration between NCERT and CBSE through a Coordination Committee under NCF SE will ensure seamless integration structuring, and quality assurance. Shri Kumur emphasized that it is good to have cross-national and cross-international Boards analysis and have an international perspective, but it needs to be specific to our needs.



The Centre has put on hold the overhaul of Paniab University, first reported by The Tribune, but the debate rages on

The genesis of reforms



ARUN CRITYES PERSONAL PRODUCTIONS

15-MEMBER National Assessment and Accorditation Council (NAAC) committee that reviewed Pargab University (PU) in March 2005 had attresped the need for untiest reforms in the university's governance structurn, particularly the procedure for opposinting deans of faculties.

The committee noted that the government fromework, as bad down in the Pargeb Univercity Act (1947) and its statutes, bud remained largely unchanged since Independence and needed revision to reflect present-day anademic and administrative realities.

The PU Act (1947) was modeled on the Indian Universities Act (2004), which created a Serate comprising the Chancellot Vice-Chancellot. ex-officio Fulievo and ordinary Fellows - elected by registered graduates and university facultime, or nominated by the Chancelloc.

When this system was framed, PU had no departments or teaching staff. Fellows tweeassigned to wrultiple faculties sexus disciplines to manage academic work. Since each Senator typically had expertise in only one area, about 15 per cent of members in any faculty lacked. esseciations incoming a of that finds

To address this, the execept of 'Added-membern' was introduced. Any two Secale trembers enald nominate a college teacher or profusaional as an Addesimenther in their faculty. Later profiessors and boods of university department were included as ex-officio members in their faculties.

By 1961, when the uncorruly moved to its preent Chandigoth campus, there were 38 professors and heads of department as ex-officio members compared to 338 Senate members and 152 Addotmanufacts across 13 faculties. By 3913, the marrier of an officio members had incressed to 200, while Senate members and Added-members stood at 256 and 165, respectively. The family constituting: which elected on Senature, soon become a content est make for politically savey individuals to retain their positions by manipulating family combinations and constituting Addid recrebers.

Fundly menther represently highlighted these unhalasors-below the NAVIC on mitter. Acting on their feedback, the President of the Panjah University Buchen Association (PUTA), then a nominated Service submatted proposals on poermanue refamos au Octobur 8, 2845.

Based on the Syndicate's renovative addison, or

Horsenber Gonzmann Referrer Contractive (GRC) was set up en November 29, 2815, handed by a former chief justice of a high court. The GRC was tasked with ecoloring reforms Orough three sub-committees forming on amendments to the PU Act, changes in statutes and regulations, and improvements through administrative delegation

While the Sergie elections for 5006-20 users held pending the GRC's report, PUDA continued to press flaraction. In September 2016, it wrote to the Union Hame Minister seeking regulations to petrict multiple faculty choices and land voting rights of Added-mershers in elections of Dearsand Septem. Around the same time, the Punjob and Harvana High Court took up a succepture do-By interest litigation (PSL) on governance and financial concerns at PU. The VC was directed to the on affiducit debaling correction moustants.

The sub-committees submitted their reports

in June 2018, which were reviewed by the GRC and circulated among Syndicate and Senate members.

The seconmendafloors were also rubeutted to the high court, in December 2019, the Chancefor's entitiony nated Chandagah for consultations before the 2009-24 Sende elections. Eksweser, the panderor disrupted. the process.

Charceller constituted anothermanul, chained by the Central Universitwo Panish VC including representatives from the UGC, MHRD, Punjah Government and UT Administration. The report was not made pubhe or placed before the flerate.

Despite reported afforts, neither the 2016-36 our the 3023-24 Senate acted upon the GBC's 2018 recommendations. The Senate's term seided on October 31, 2004, and elections for 2024-28 were withheld by the Charceline reportedly because certain issues related to the previous election remarked out-judice.

At present, the Serule comprises only the Chariedge and WC as monthers, with the Registrar as non-member Secretary. They appear to have leadby taken cognitionary of the report lying in the Chanrefor's office since \$821. Amount Gazette natificain his aligned PU's governance distortion with

that of other of Medicing universities in Parasit-The large-coulted before is expected to exact the Survioring of the VChristian, improve consustability: etauntine decision realizer and end conflict between electable authority and varied interests. - rearling a significant yourse correction for one of Irelated and and most proclamous or livered time.



Autonomy Vs Control



at Paniab University

Ablow to autonomy



FORGER PROPESSOR FLA

Off, over a contact: Panish Univenuty has stood as a bescen of higher learning. Its Senate and Syndicate, established under the PU Act of 1947, embodied a model of collegial governance that safegranded both autonomy and accountable ity. That legacy now faces a challenge

The Gazette redification redefining the constitution of the Serate and Synthesis

> murks a bouilt from the sonversity's model of self-governamos. The official retionals is that these lookes had become press of factorships and putronaux, where elections were driven less by wision. thin hit were.

> Netrovonadernetementall Yet, what has emerged in au referre than more figuretion - one that risks connecting an autonomous institution into a bassiomatic extraction of the state.

The recognitioned Senate has a smaller membership and an altered composition.

While a measure of election remains, a large proportion of morebers will be nomirailed by the Charcellor or finem as office. from government or administrative offices-This shift from representation to numbers this weathers the democratic principle.

The wireduction of pullified representrainers and covil servants tilts the scales toward frienceby righer than deliberation. Professors, assectate professors and principale, who are the main electorate. operate under the VCs authority. Structural dependence constrains their freedam to dissent. It is difficult to challenge authority when authority determines ones professional future.

The Syndicing, the university's associthe book similarly reflects bureaucratic domination. Charged by the VC of techades government secretaries and directives alongside others normalized by the VC on the basis of seniority in procaple, peramity rewards editentions in practice. It often receptle neopheres. The restalt to a concentration of authority.

that Mure the line between administrative covarilizing and scafernic control.

The question underlying this crisis is fundamental what is a university meant to be? Truditionally, it is a self-proming. community of achalam directed to reaserved disalogues and the numuit of truth not an arm of the state nor a corneration. The new structure shifts the balance from automotics forgard control.

For all its imperfections, the earlier evatern material PC Brough Partition, roll is cal transitions and social change. It allowed a halastee between state overlight and institutional independence. Under that Itumework, the PU built its reputation as a leading certire of learning, gooducing scholars who embedded both intellectual rigour and public responsibility: To abundon that legacommonweald by to stoke one of the last has tions of scadamic self-rule in the country.

Much will now depend on the VC's terrperament and the Channellor's commitroant. If they approach, their offices with respect for dialogue, the raw etracture maght still function constructionly. But if they end to become ratio especiancy, the democratic character will gode swiftly

The Minutes of Higher Educations directive ruises constitutional questions What appears a martine administrative reseasure to in truth, an encreechment on ungremary enforcery and a treations instance of controllogion. The Chancellors sowers under the 3H7 Ait are largeby opposition direct interception in internal governance streather constitutional propriety to its faults.

Pursuit Decountly is not a central to other not but a creation of the Purple Viffee Soltha sander the Parjob Heavenety Act of 1967. Any. change to ris governance requires the legislatures consent. By unlaterally obtained its structure through runlibertal notification, the Centre not unly Nytogoes that requirement but also undermittes India's (edaral chieses):

Equally dereigting to the direct action of the graduates constituency a bridge between analomia and exclusionly that allowed actimany chinene and alumns to shape 90% mural direction. The new Senate true uses officient in form but hollow suspect.

The total embolit processing the conditions under which thought mer remain free. When universities are governed by far reduct than disting cowed quotes attented and schelectural florelism is that next musually

If the Contro undescriby residence a state tenoursely's governance, it as a precedent that therefore every politic university. The fatigue of lagher education will be measured not by administrative officiency had by the contract of its publishess to runsus true.



In Tebruscy 2021, the poservious, : framer Purish Cat Charact burgs (framework trade) granders, rule

The future of higher education will be measured by the courage of its institutions to remain fee.

The long-awaited reform is a significant cruine currection for one of Inches oldest and most prestigious universities.

Universities must lead Assam's journey

NAVA BARO

Assam's universities must foster innovation and entrepreneurship to transform the State into a thriving, knowledge-driven economy.

o transform Assam into a hub of innovation, the journey must start within its educational institutions. Universities, colleges, and technical institutions serve as natural incubators for new ideas, creativity, and entrepreneurial spirit. These establishments are not simply venues for students to earn degrees; they are dynamic environments where young individuals learn to question, envision, and influence the future. However, for an extended period, the emphasis in our campuses has been predominantly on academics centred around examinations, placements, and rote memorisation, which has left minimal space for innovation, experimentation, or entrepreneurial pursuits. If Assam aspires to secure its position in the knowledge-driven economy of the future, this paradigm must shift. The campuses need to transform into focal points of innovation.

Global powerhouses like Google and Facebook, or Indian success stories such as Flipkart and Ola, show that the foundations of these enterprises were laid in classrooms and dormitories where curiosity was nurtured, risks were embraced, and interdisciplinary collaboration was encouraged. Innovation thrives where young minds are empowered to utilise their knowledge, experiment with their ideas, and receive the necessary support to actualise those ideas. Assam has the potential to mirror such achievements if it shifts its educational environments towards innovation-centric learning.

The initial phase of this journey involves

re-evaluating the curriculum. Although academic rigour holds significance, education should also enhance problem-solving skills, design thinking, and the innovative application of knowledge, Courses ought to motivate students to engage in projects that tackle real-world issues in sectors such as agriculture, healthcare, logistics, and environmental sustainability. Familiarity with entrepreneurship case studies, design labs, and industry projects can add a practical aspect to academic learning. A degree should represent not just the gathering of theoretical knowledge but also the capability to utilise that knowledge in impactful ways.

Equally crucial is the establishment of incubation facilities on campuses. An idea, no matter how potent, frequently struggles to progress without essential infrastructure, guidance, and resources. Incubation centres can offer shared workspaces, laboratories, seed funding, and access to seasoned mentors capable of assisting students in transforming their ideas into prototypes and ultimately viable businesses.

Mentoring support from seasoned entrepreneurs, alumni, investors, and professionals can offer invaluable insights to students to validate their ideas with potential users and formulate business strategies. Hackathons provide students with short, intense periods of collaborative problemsolving, where they collaborate to develop prototypes for real-world challenges. Additionally, founders' clubs, startup boot camps, and innovation fellowships on campuses can bolster entrepreneurial confidence and establish a support system for young innovators.

Certainly, there are obstacles to contend with. Educational systems often have a rigid structure that leaves little opportunity for flexibility or collaboration across disciplines. The availability of funding for incubation centres and laboratories is limited in most institutions. Networks for mentorship are not well-developed, as Assam lacks a significant number of successful entrepreneurs to support the emerging generation. Cultural attitudes that emphasise stable government or corporate jobs rather than embracing entrepreneurial risks further exacerbate the issue.

Addressing these challenges necessitates a collaborative effort among government entities, universities, industry stakeholders, and civil society. The role of the government will be pivotal. Policies that provide innovation grants to universities, tax or procurement incentives for startups emerging from campuses, and structured startup networks that connect student entrepreneurs to markets and investors can all-accelerate this transition. Importantly, educational regulations must evolve to allow for entrepreneurship credits, interdisciplinary courses, and flexible project-based learning. If innovation is recognised as a valid and integral part of education, students will feel encouraged to explore it.

Innovation includes both cultural aspects and the frameworks of policies and infrastructure. Educational institutions should create an environment that encourages experimentation, sees failure as a valuable opportunity for learning, and appreciates creativity alongside academic efforts. Instructors should recognise and celebrate ingenuity and problem-solving, while sfudents need to feel motivated by their peers who are launching startup initiatives.

We should equip a generation with the mindset and capabilities necessary to address Assam's most urgent challenges, ranging from agricultural efficiency and rural health-care to sustainable industries and digital inclusion. It is about establishing enterprises that generate employment, attract investment, and integrate Assam into the global economy. It is about developing a sense of ownership among the youth, enabling them to perceive themselves not just as students navigating through an educational system, but as innovators who are actively shaping the future of the State and the nation.

If the universities and technical institutions in Assam embrace this challenge, the
upcoming decade may experience a surge
of innovation, reshaping the State's economy and society. The classrooms of today
have the potential to serve as the launchpads for the enterprises of tomorrow. The
youth of Assam, equipped with education
that stimulates innovation, could rise as the
leaders, problem-solvers, and entrepreneurs who will pen the next chapter in Assam's development narrative. The path to
establishing Assam as a centre of innovation must commence now, and it must initiate within our campuses.

INDIAN EXPRESS (P-10), 07 NOVEMBER 2025

♦ The Indian EXPRESS

~FOUNDED BY~ RAMNATH GOENKA

- IN 1932

BECAUSE THE TRUTH INVOLVES US ALL

JNU's tradition of debate is in the dock

INCE ITS INCEPTION, JNU's reputation as an institution of academic excellence has owed much to a vibrant culture of debate involving the university's students, faculty and administration. This argumentative ethos, nurtured by internal mechanisms that encouraged the resolution of disputes through dialogue, has not only been a catalyst for JNU's consistently creditable performance in the national rankings for higher institutions, but is also one of the major reasons for a large number of JNU students going on to become prominent faces in political parties of all hues. Today, however, the university is at a crossroads. An investigation by this newspaper into the growing number of court cases the university is involved in sheds light on the fraying relationship between the administration, faculty and students. The institution has featured in over 600 Delhi High Court cases during the tenure of the current vice chancellor, Santishree Dhulipudi Pandit, and her two predecessors.

That a large number of these cases pertain to protests and free speech-related issues is disquieting. It suggests that a space where students and faculty were once encouraged and empowered to ask questions and raise doubts is under siege, let down by those whose responsibility it was to nurture it. In several cases, the HC has called out the JNU administration for procedural lapses. It decided in favour of students in at least 19 of the 38 cases that were adjudicated during the tenure of the current VC. Litigation had peaked under her predecessor, M Jagadesh Kumar (2016-2022), when the university was involved in 118 cases — 92 of them filed by students. The court offered them relief in 40 cases, citing violation of the principles of natu-

ral justice in at least 15. Litigation may have been more muted under the current VC, but the administration has persisted with its sledgehammer approach. The Students' Discipline and Conduct Rules, which came into effect in 2023, list expulsion from hostels, rustication from the university and penalties up to Rs 20,000 - way more than the average fee of its postgraduate courses - as punishment for any protest within a 100 m radius of an academic or administrative building on campus or even around faculty residences. One of the lawsuits pertains to a Rs 6,000 fine imposed on a student for writing graffiti on the university's walls — a longstanding JNU tradition. In 2023, JNU adopted the motto "Tamaso Ma Jyotirgamaya" (from darkness unto light). This paper's investigation shows that the university administrators have much to do to enable JNU's students to live up to this credo of knowledge without fear.

STATESMAN (P-6), 07 NOVEMBER 2025

Visa Squeeze

anada's steep rise in study permit rejections for Indian applicants marks a turning point in what was once a dependable educational partnership. With nearly three out of every four Indian applications now being refused, the numbers alone tell a story of growing caution in Ottawa's immigration policy.

The stated reason is fraud prevention. Canadian authorities uncovered widespread misuse of falsified admission letters, many originating from India, and have since strengthened verification processes and financial scrutiny. On the face of it,

the government's position is defensible.

No country can afford to compromise the integrity of its education or immigration systems. But the magnitude of the rejection spike, and the resulting drop in Indian enrolments, points to deeper unease within Canada about the reliability of its overseas student intake.

For decades, Indian students have been the largest foreign cohort on Canadian campuses, bringing academic talent and significant tuition revenue. Their presence enriched institutions and helped shape a shared reputation for excellence and openness. That equation is now shifting. Even though there is no clear evidence that genuine applicants are being rejected in large numbers, the overall tenor has changed, from welcoming

scrutiny to wary filtering.

The larger context is domestic politics. Canada's temporary migration numbers have surged, straining housing, healthcare, and public sentiment. Student visas - once a symbol of openness - are now a flashpoint in a debate about capacity and control. By reducing approvals, Ottawa is signalling that immigration must align with infrastructure realities. The shift is not anti-India but anti-overstretch: a correction driven by internal pressures that happen to intersect with the external issue of fraudulent documentation.

The result is not discrimination but a recalibration of trust, driven by administrative necessity and political pressure. Canada's visa officers appear determined to err on the side of caution, even at the cost of slower admissions and declining diversity. For Indian applicants, the new reality means meeting higher proof-of-funds requirements and navigating a more

sceptical verification system.

The danger lies less in bias than in bureaucracy, where efficiency replaces empathy and individual merit is lost in procedural caution. The repercussions are already visible. Prestigious universities report steep falls in Indian enrolment, altering the cultural composition of classrooms that once reflected Canada's global outreach. The broader message, whether intended or not, is that Canada is turning inward, prioritising control over expansion in its international education strategy.

Yet, this moment also invites introspection in India. The rise of fraudulent intermediaries has eroded confidence in the credibility of student applications. Unless India strengthens oversight of foreign education agents and tightens its own verification processes, deserving students will continue to be

shadowed by the misconduct of a few.

In the long run, Canada's caution may protect its system but strain its image. And for India, the lesson is equally clear: credibility abroad begins with accountability at home.

फर्जी विश्वविद्यालय

इससे संतुष्ट नहीं हुआ जा सकता कि शिक्षा मंत्रालय फर्जी विश्वविद्यालयों के विरुद्ध कार्रवाई करने के लिए राज्यों के मुख्य सचिवों को पत्र लिखने जा रहा है। आश्चर्य नहीं कि इस पत्राचार के बाद भी फर्जी शिक्षा संस्थान बंद न हों। इसकी आशंका इसलिए है, क्योंकि अतीत में इस तरह की पहल की जा चुकी है, लेकिन सभी फर्जी शिक्षा संस्थानों पर ताला नहीं लगाया जा सका। विश्वविद्यालय अनुदान आयोग यानी यूजीसी हर वर्ष फर्जी विश्वविद्यालयों की सूची जारी करता है, ताकि छात्र उनमें प्रवेश लेने और अपना समय व धन बर्बाद करने से बचें। इसके बाद भी वे चलते रहते हैं। इसका मतलब है कि छात्र उनमें प्रवेश लेते हैं। यूजीसी फर्जी विश्वविद्यालयों की सूची जारी करने के साथ ही यह भी बताता है कि इन शिक्षा संस्थानों की ओर से दी जाने वाली डिग्री किसी काम की नहीं होती, लेकिन उनका अस्तित्व बना ही रहता है। कई फर्जी विश्वविद्यालय ऐसे हैं, जिनके खिलाफ एफआइआर भी दर्ज की जा चुकी है, लेकिन उन्हें इसलिए बंद नहीं किया जा सका, क्योंकि कुछ में अदालतों की शरण ले ली तो कुछ ने किसी अन्य आधार पर अपने को वैध ठहराने की चेष्टा की। स्पष्ट है कि शिक्षा संस्थानों के संचालन संबंधी नियम-कानूनों में कुछ ऐसे छिद्र हैं, जिनका लाभ फर्जी विश्वविद्यालयों को चलाने वाले उठा रहे हैं।

फर्जी विश्वविद्यालयों का संचालित होते रहना केवल छात्रों के साथ खिलवाड़ ही नहीं, बल्कि शिक्षा संस्थानों को संचालित करने वाली व्यवस्था का उपहास भी है। यह व्यवस्था कितनी दीन-हीन है, इसका पता इससे चलता है कि देश में जो 22 फर्जी विश्वविद्यालय चल रहे हैं, उनमें से 10 देश की राजधानी दिल्ली यानी संसद, सुप्रीम कोर्ट, शिक्षा मंत्रालय और यूजीसी की नाक के नीचे चल रहे हैं। क्या यह एक मजाक नहीं? कुछ फर्जी विश्वविद्यालय तकनीक, प्रबंधन और कानून की भी डिग्रियां बांटते हैं। किसी को यह जानने की कोशिश करनी चाहिए कि आखिर इन फर्जी विश्वविद्यालयों से कथित तौर पर डिग्री हासिल करने वाले छात्र करते क्या हैं? कहीं ऐसा तो नहीं कि वे अपनी अमान्य डिग्रियों का कहीं पर इस्तेमाल करने में समर्थ हो जाते हों? यह सहज ही समझा जा सकता है कि फर्जी विश्वविद्यालय चोरी-छिपे नहीं, बल्कि खुलेआम सार्वजनिक स्थानों में चल रहे होते हैं। आखिर एक अवैध समानांतर व्यवस्था के सामने विधि का शासन इतना असहाय कैसे हो सकता है ? प्रश्न यह भी है कि नियम-कानूनों को कठोर करके इन फर्जी विश्वविद्यालयों को एक झटके में बंद क्यों नहीं किया जा सकता या फिर उन पर ऐसी कोई शर्त क्यों नहीं थोपी जा सकती कि वे यूजीसी के नियमों का पालन करने के लिए बाध्य हों, ताकि छात्रों के भविष्य से खिलवाड़ न होने पाए? 🦡 🗥

तकनीकी विकास पर ध्यान दे निजी क्षेत्र

द्र सरकार देश क ानणा कर उस्ति का कह रही है कि वह अपने लाभ का कुछ प्रतिशत शोध एवं विकास यानी आरएंडडी में लगाए। हाल में प्रधानमंत्री की आर्थिक सलाहकार परिषद के प्रमुख ने भी कहा कि निजी क्षेत्र पैसे को 'नकद' के रूप में रखने की जगह निवेश करे तो देश की जीडीपी सात प्रतिशत तक जा सकेगी। भारत में शोध एवं विकास जैसे तात्कालिक लाभ न देने वाले उपक्रमों को सरकार के भरोसे छोड़ने का निजी क्षेत्र का रिकार्ड रहा है। हालांकि शोध एवं विकास के लाभ लेने में वे सबसे आगे रहते हैं। अमेरिका जैसे संपन्न देशों में निजी क्षेत्र आरएंडडी के लिए सरकार का इंतजार नहीं करता। गुगल, एनवीडिया या माइक्रोसाफ्ट अधिकांश नवाचार अपने बृते करते हैं। क्वांटम कंप्युटिंग में गुगल का 'विली' इसका ताजा उदाहरण है।

तकनीकी नवाचार मानव का स्वभाव है। चुंकि यह जीवन और उसके उपादानों को सहज और सस्ता करता है, लिहाजा इसे अंगीकार करना अपरिहार्य होता है। बैलगाडी, साइकिल, मोटर-चालित वाहन, वायुयान-इनमें से किसी के प्रयोग को रोकना समाज को निश्चित ही अवनति की ओर ले जाता है। कंप्युटर और इंटरनेट तकनीकी का नया दौर है-एआइ, लेकिन यह दौर यहीं नहीं ठहरा है। अगला चरण क्वांटम कंप्यूटिंग का है। यह भी वर्चुअल फेज से निकल कर वास्तविक और व्यावहारिक प्रयोग में आने लगा है। नए क्वांटम कंप्यूटर दुनिया के सबसे तेज सुपर कंप्यूटर के मुकाबले लाखों गुना तेजी सं गणना करने जा रहे हैं। चिकित्सा, शिक्षा के साथ कोविड जैसी महामारी में वैक्सीन तैयार करने और कैंसर की कोशिकाओं का त्वरित विश्लेषण कर सटीक निदान बताने में ही नहीं, बल्कि युद्ध में भी इस नई टेक्नोलाजी की अप्रतिम भीमका होगी।

आज दुनिया के विकासत देशों में होड़ इस बात की नहीं है कि कौन ज्यादा सक्षम ग्राफिक प्रोसेसिंग यूनिट (जीपीय) बनाएगा या ज्यादा एआइ यूनिटस स्थापित करेगा। अब यह दौड़ क्वांटम कंप्यूटिंग में क्षमता विकासत करने की हो गई है। जो देश सबसे ज्यादा क्युबिटस वाले



मारत के तकनीक में पिछड़ने का एक कारण निजी क्षेत्र का शोघ एवं विकास के लिए सरकार पर आश्रित रहना है



Research Development & Innovation



प्रौद्योगिकी से जुड़े एक कार्यक्रम में पीएम मोदी 🛭 फाइल

क्वांटम कंप्यूटर बना सकेगा, वही विजयी होगा-बौद्धिक ही नहीं. आर्थिक और सामरिक रूप से भी। फिलहाल इस दौड में अमेरिका का गुगल अपने सुपर कंप्यूटर विलो और चीन अपने जुचोंगझी-3 के साथ खंडे हैं। यूरोप एक जमाने में वैज्ञानिक शोध में सबसे आगे रहा था, लेकिन अब इसमें पिछड़ता जा रहा है। भारत भी इस दौड़ में पीछे है। रेस में बना रहना है तो अमेरिका और चीन का मुकाबला करने के लिए उसे अपनी पुरी शक्ति लगानी होगी। 2021 में 76,000 करोड़ रुपये (85 करोड़ डालर) के परिव्यय के साथ केंद्र सरकार ने नेशनल सेमीकंडक्टर मिशन शुरू किया, जबकि क्वांटम कंप्यूटिंग में प्रमुख देशों के प्रयास देखते हुए 2024 में नेशनल क्वांटम मिशन के लिए अगले सात साल के लिए मात्र 70 करोड डालर का फंड रखा। दोष सरकार का नहीं है। विलो अमेरिकी सरकार ने नहीं बनाया है, न ही उसने कोई फंड दिया है। गुगल शोध में जपने व्यय से यह कमाल करके आज दुनिया का नेतृत्व कर रहा है। फिछले एक साल में एनवीडिया का राजस्व दोगुना हुआ है। यह संभव इसलिए हुआ है कि इन निजी कंपनियों ने शोध में जम

कर पैसा लगाया। इसके उलट भारत में आजादी के बाद से ही निजी क्षेत्र ने अपने को निरीह और क्षमता-विहीन माना और शोध एवं विकास या ढांचागत विकास के लिए सरकार पर आश्रित रहने लगा। इस कारण भी देश तकनीकी नवाचार के मामले में पिछड़ गया। भारत में शोध पर कुल खर्च इसकी जीडीपी का मात्र 0.6 प्रतिशत है, जबिक चीन का लगभग 2.68 प्रतिशत। ध्यान रहे कि चीन की जीडीपी भारत की लगभग पांच गुना है। यानी शोध राशि में अंतर 20 गुना है। दुर्भाग्यवश भारत में निजी क्षेत्र का योगदान मात्र 37 प्रतिशत है।

वित्त मंत्रालय की एक हालिया रिपोर्ट के अनुसार देश में एआइ और मशीन-लर्निंग तकनीकी जानने वालों की नौकरियां 61 प्रतिशत बढी हैं। एमेजोन ने दुनिया भर में 22 हजार कर्मियों को निकालने की प्रक्रिया शुरू की है, जिसमें भारत के 1000 कर्मी हैं। वर्ल्ड बैंक की रिपोर्ट कहती है कि दक्षिण एशिया के देशों में एआइ की वजह से उद्योगों में नौकरियां 20 प्रतिशत कम हुई हैं। साथ ही एआइ-संबंधित स्किल वालों का वेतन 30 प्रतिशत बढा है। हालांकि कुछ विशेषज्ञों का मानना है कि एआड का यह प्रभाव अस्थायो है. जिसमें नई तकनीकी से कुछ नकारात्मक असर दिखाई देते हैं. लेकिन दीर्घकाल में इससे काम की रफ्तार बढेगी और सुविधाओं का असाधारण विस्तार होगा, जैसा कि 1980-90 के दशक में कंप्यूटर के प्रयोग के बाद के भारत में देखा गया। अन्य उद्योगों वा सेवाओं के अलावा एआइ का प्रयोग व्यापक रूप से कथि में होने की संभावना अधिक है। जरूरत इसकी है कि देश के युवाओं को एआइ सक्षम बनाया जाए। इसके लिए त्रिस्तरीय प्राविधिक शिक्षा में आइटी ट्रेनिंग से लेकर आइआइटो रिसर्च तक पूरी शक्ति एआइ के ज्ञान को उपलब्ध कराने में लगाना होगा। चुंकि एआइ और क्वांटम कंप्यटिंग का प्रयोग सबसे ज्यादा साफ्टवेयर उद्योगों. मैन्युफैक्चरिंग, कृषि और निर्माण में होने जा रहा है, इसलिए निजी क्षेत्र को अपने लाभ का निश्चित अंश इससे संबंधित शोध में लगाने के लिए बाध्य करना जरूरी है।



(लेखक वरिष्ठ पत्रकार है) response@jagran.com Why educational credentials in Bihar continue to fail to build much-required real human capital

Cut By a Thousand Degrees





Anushi Tiwary & Dayakar Peddi

ihar, which conducted the first phase of elections on Thursday, stands as a paradox in the landscape of human capital formation. Here, an edu-

cation system designed for mobility produces stasis: a generation armed with degrees, yet, bereft of core competencies required for a modern economy. This is not a story of mere neglect, but of a complex system where rational individual choices aggre-

gate into a collective trap.
Education can serve two
primary economic functions: it can enhance productivity (skill-building), or it
can certify inherent traits
(signalling). In Bihar, the
system has become optimi-

sed for the latter. The curriculum, and the vast coaching industry it supports, prizes rote memorisation and exam-specific tricks.

These are narrow skills that are rational investments for individuals competing for a limited pool of bureaucratic jobs. They are highly effective for passing standardised tests, but offer diminishing returns in a dynamic labourmarket.

Cost of this trade-off is catastrophic. Aser 2024 finds that only 28% of Class 3 students in Bihar can read a Class 2 text, well below the national average of 36%. Only 32% can perform subtraction, compared to 41% nationally Even by Class 5, fewer than half can read a Class 2 text.

A child who cannot read or subtract with fluency by 8 is on a trajectory of academic exclusion. UDISE+ 2023-24 data show how steep those drop offs are. Only 31.5% of students move from upper primary to secondary school, less than half the national average of 83%. When the marginal benefit of education is so low, the opportunity cost of a child's labour or a family's limited



Barely hanging on

funds becomes prohibitive. Schooling, in this calculus, is a depreciating asset.

Even for those who persist, school infrastructure and staffing remain de-

> eply inadequate. Despite a recruitment drive for 25,000 new teachers in 2025, over 2.5 lakh positions are vacant. The pupil-teacher ratio at the secondary level stands at 30:1, almost double the national average. Only 19.6% of schools have computers and fewer than 18.5 % have

internet connectivity

These shortages make meaningful digital or experiential learning impossible. They limit exposure to the kinds of cognitive skills demanded in labour markets. Consequently, the state has spawned a parallel, private education economy. Recent data show:

53% of Bihari households spend on private coaching.

 Annual coaching expense per student of 46,161 is higher than the 45,907 spent on schooling itself. Mostly concen-



With organised private sector anaemic, frenzied competition

for a few government jobs reinforces demand for narrow, exam-oriented skills coaching centres seli trated in Patna, Gaya and Muzaffarpur, coaching schools act as de facto substitutes for failed public schooling. Also, it has led to poorer households sacrificing essentials like nutrition to purchase a sliver of hope in a saturated marlet, thereby deepening inequality while chasing a mirage of opportunity

This brings us to the core distortion: labour market. With organised private sector anaemic. the state remains the employer of first and last resort. The result is a frenzied competition for a small number of government jobs. This, in turn, reinforces the demand for narrow, exam-oriented skills the coaching centres sell. A self-reinforeing loop; weak schools create a demand for

coaching, which prepares youth for state jobs, the pursuit of which validates the initial lack of broad skills.

Into this vacuum flows migration. A 2020 International Institute for Population Sciences study revealed more than 50% households are exposed to migration. The average remittance by a migrantis €26,020. These remittances provide a critical lifeline, sustaining households from the worst of the local economy's failures. Yet, this safety net also neuters the impetus for reform.

When migrant incomes can compensate for institutional failure, the political cost of that failure remains manageable. This is a textbook case of a lowequilibrium trap; weak institutions yieid low returns to learning; low returns induce rational under-investment; and that under-investment perpetuates weak institutions. It also reflects a deeper political logic of dependency.

Breaking this equilibrium requires a multi-pronged effort:

➤ Shift the metric of success from enrolment and infrastructure to learning outcomes. The state must commit to measurable goals: — say, 80% of all Class 3 children will achieve gradeappropriate literacy and numeracy by 2000. This data must be public, granular and published district by district.

➤ Teacher recruitment must move beyond headcount announcements to professionalisation. Filling vacancies without training, mentoring and accountability expands payrolls. A professional teacher cadre, tied to regular performance evaluations and community oversight, is indispensable.

The premium of state jobs can only decline when private employment be-

Could a small fraction of

remittances, matched

by public funds, be

channelled into local

skill-development funds

or community-school

trusts?

comes credible. Linking education to apprenticeships and incentivising small firms to hirelocally through wage subsidies.
Education grants to
districts and blocks
should depend not on
infra built but on measured improvements in reading and

arithmetic scores.

Rather than treating migration as asymptom of failure, integrate it into

a development strategy Could a small fraction of remittances, matched by public funds, be channelled into local skill-development funds or community-school trusts?

This pre-election railies, as always, revolved around employment guarantees, welfare schemes and caste arithmetic. Yet, the real question went unasked: will any government agree to be judged by how much its children learn, not by how many jobs it promises?

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PU governance reset that's been withdrawn

Norw Jane

THE Centre's decision to roll back the revesping overhald of the governing bodies of Paright University Chandigoth — the Senate and the Syndicate — Sillous a strong political backbash over the contraversial, move in Poujab. Within academic circles, though, opinion remains divided on the restructuring of the variety's governance model. On November 4, the Centre backpart on hald and not withdrawn its October 38 notification on the new rules of engagement, prerepting students and Opposition parties to intensity their agitation. The November 7 order effectively realities all the changes. But what were these changes, why were these effected, and why the force efficient?

THE ESSLE AT HAND

The October 30 notification invoked Section 12 of the Punjab Recognisation Act, 1906, to amend the Punjab University Act, 1947. It substituted Section 13 on Ordinary Fellows) and omitted Section 14 ion Senate elections).

The Senate—cince a 81-member body of elected and nominated representatives — was trimmed to 31, including 34 Ordinary Nellows: two entirent sturmi, sight elected teachers, four principals, six college lectures, and two nominous of the Punjah Assembly Speaker. The two remaining members were to be now instead by the Chancellor. It was to have seven on officie members: the Punjah Chief Minister, Education Minister, Chandigath MD, and senior officials from Punjah and the UT Administration.

The Syndicate — PU's 'executive government' — was neutrachared to comprise the Vice Chancellor as chairperson, the Union Higher Education Secretary, DPU/Collegest of Parquis and UT, one Senate member nominated by the Chancellor and 10 other members nominated by the Chancellor from ornous deaner, professors, associate professors, and college principals.



THE

The Centre may have rolled back the overhaul of the Senate and Syndicate of Panjab University, but it has ignited a debate on administrative reforms, academic autonomy, and Punjabis rights

LAWS TO TAKE NOTE OF

Perjah University Internita motorio Lahore (1801) and was re-established in Independent India Strough the Parjab University Act, 1867, enacted by the Punjah Legislative Assemblis In 1886, Section '73 of the Beergenisation Act declared PU as an "Inter-state body corporate", empowering the Centre to issue directions "for semoning difficultion" in the functioning, Since then, all changes to the PU Act have been positified under the revention.

The October 30 move drew upon the recommendations of a high powered panel conditated in 3000 by the them. Vice Precident and PU Channello, M Venkalah Nacha. It included the VCs of PU, CaSIU in America, and Geotral University, Bathinda, besides representatives of Punjabanel Channigach. The report, substitied in 2022, called the reducing political interference, limiting the size of governing boolies, and strengthening leasther representation.

POLITICAL FLASHPOINT

Punjah Chief Minister Bhagward Mann called the Cester's move "thickstorial and unconstitutional", accusing it of "attacking Punjab's rights and heritage". The AAP govcement also emissanced plans to challenge the notification legally and in the Voltan Sabba. Chandigath's Congress MP blanish Tewari met the Vice-President, also the PU Channellos swelding a relock.

Pergeer Union retriever Present Korner Bernel and sevoral Alcali leaders echood the objections, organing that the Panjab University Act, 1947, in a state law and corner be amended by an executive order. Under mounting presure, the Centre's resolution on November 4 calmed tempers but did not settle the core question: whether Delhioin after PU's constitutional structure through a transtional disease resets six decades after recommission?

ROLE OF SENATE AND SYMDICATE

The Senate is PU's supreme governing body—the equivalent of a parliament of anotheriou. It were seen finance, policy and long-term development. The Synthesis functions as its executive arm, implementing decisions, supervising administration, and managing appointments, promotions and affiliations.

Historically, the Senate included elected teachers, principals, alarmal, and sepresentatives from the Graduary constituency—an electrosis of PU degree-holders. The Syndicals was partly elected by the Senate, giving the university or are blend of democratic representation and scaling less eversight. Over time, these electrons became flace to political. Critics alleged that governance had turned into a proxy hattleground for influence and paternage.

CONTENTIOUS GRADUATE CONSTITUENCY

The Grickaste Corathusacy—where thousands of sharnni voted to elect Sensions—was once a proof symbol of participatory governance. However, though of mid-poticus, inflated voter lists, and excessive expensions to the demands for reliefern. VCs complained that election sycheovershallowed endormats, otherwise energy and fluids. The 2000 committee concluded that the countituency had satived its purpose. Its abelition, formalised in the new withdrawn October 30 notification, was intended to 'professionalise' governance.

NOT JUST ABOUT THE CAMPUS

For Purphi's parties, the Centre's more pertived acceptance over Chamilgority status and the dilution of Purphi's voice in joint institutions. Opposition leaders literated in the 200 farm law, frauding it as another "arti-Purphi" set. For the ILIQ the reform was a long exercise dean-up. Long-time Senator Sarjas Pal. Juln, who served on the reforms parel, add the changes were "constitutionally sound, legally void, and in the best academic misroed of PU".

LEGAL, CONSTITUTIONAL DEBATE

At the heart of the standoff lies Section T2 of the Punjab Recognisation Act, 1966. Supporters argue the clause allows the Centre to issue directions modifying existing state laws governing reorganisationaffected institutions. Cities counter that Section 72 was a transitional provision, recent only for short-term administrative continuity in 1986—not for rewriting a vide state in 1995.

ARQUNEDITS FOR AND AGAINST

Supporters—including former VCa KN Pathak and Asun Gerwa, and former PUTA precident Promits Pathak sugges that the eventual soft foring efficiency and end politicking. They describe it as a "leasther-centuin" model oligonel with the Neberral Education Policy (MEP 2000). Opposersor—students, AAP Congress, SAD, and farmer unions — call it "de-deissocrationton". They warm it replaces representative decision-making with bureaucratte control and erodes Purpil's obser on accommand.

INSIGHT

MEGHNAD SAHA

Astrophysicist, nominated for the Nobel multiple times, inventor, editor of a science journal, driving force behind the formation of several scientific societies... But this new production plays up his negotiations with caste politics and an unbudging system. Paromita Sen reports

he Bengali play Meghnad staged by theatre group Ashoknagar Natyaanan has been written by Sudipta Bhawmick. who is an IIT Kharagpur alum and an artificial intelligence and machine learning expert based in the US.

He tells The Telegraph. "A few years ago, I came across Abha Sur's book Dispersed Radiance. In it, she discusses the effect of caste politics on Meghnad Saha's life and work, which I thought would be an interesting premise for a play. I started researching Professor Saha's life and work, but it kind of died down."

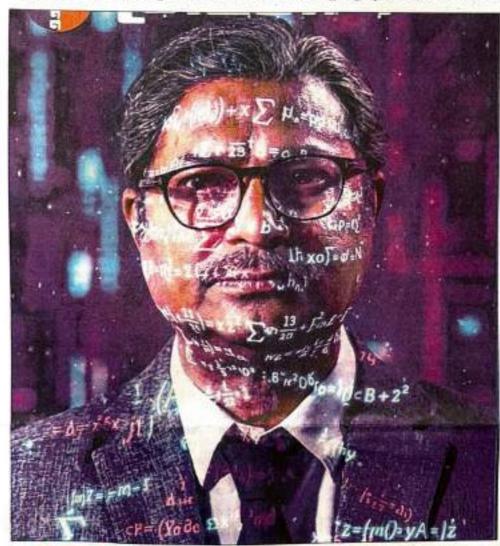
Saha was an astrophysicist who built the first cyclotron in India and translated Einstein's original papers into English along with friend and fellow scientist Satyendra Nath Bose. He is also the only scientist of his stature to be elected to the Lok Sabha and he was instrumental in setting up the iconic Planning Commission.

Possibly around the same time when Bhawmick was reading Sur's book, here in Calcutta, television actor and theatre artiste Chandan Sen was thinking of a play on Saha. Sen had been called to audition for a role in a web series about Homi Bhabha. It was of Bhabha's nemesis, a Bengali Muslim scientist. The character was clearly modelled on Meghnad Sahs. Says Sen, "They showed him in a negative light. I wanted to correct that."

When Bhawmick and Sen met at an calda session in Calcutta, dots joined and things flew into place. Says Bhawmick, "Chandan expressed his interest in doing a play on Meghnad Saha and requested me to write it."

Bhawmick, who had written "science plays" before this, took two years. Sen talks about how he consulted moltiple scientists, "The idea was to portray Saha the man, the thinker who wanted to use science to improve the lot of common people, the humanist who thought nuclear aclence should be used for the welfare of the people.

Satyaki Bhattacharya, who is a senior professor at the Saha Institute of Nuclear Physics was one of those



CYCLOTRON MAN: A poster of the play by Ashoknagar Natyasanan showing Chandan Sen in the lead role

scientists who helped shape the play. The play brochure has on it his quote: "Meghnad Saha was among those grniuses inspired by rational thinking who fought to build a modern India. .. Considering the times we live in, it has become necessary to get reacgusinted with Meghnad Saha the man."

pening scene of Meghnad. The In-stitute of Nuclear Physics in Calcutta. Period: 1963-54 Prime Minister Jawaharlal Nehru is supposed to visit the lab that day but the

cyclotron is malfunctioning. Cyclotron is the name for a class of devices used to "accelerate charged atomic or substomic particles in a constant magnetic field".

When his juniors worry that the mechanic won't get there in time, Saha reminds them that they know enough to do the job thousselves. "Or are you ashamed of getting your hands greasy? Do you think such work is below your dignity?" he roars.

This separation of the thinkers and the doers, the brain and the hand, this caste system is the reason that science has not progressed in

our country," Saha laments. Chandan Sen has direct ed the play in which he also plays the older Saha, while Rwitobrato Mukherjee plays Saha's younger self. Shantilal Mukherjee plays Nehru and Rajatsubhra Bhattacharya piays Homi Bhabha

By way of prepping for this role, Sen read up on Saha and met with some of his children. He speaks of Pitri Tarpan, the book written by Saha's third daughter, Chitra. This exploration, he says, has distilled his understanding of the scientist.

The whole process has uncurthed details about the man, long forgotten by newer generations. For instance, in the play brochure, physicist and professor Gautam Gangopadhyny makes a reference to the story of Saha changing his own first name.

At birth, he had been named Meghnath, meaning, the god Indra, But he changed it to Meghmad, defeater of Indra and hero of Michael Madhusudan Dutt's Meghnadbadh Kabya, ahead of his school-leaving exam. Gangopadhyay writes, "It was his first loud protest against the caste system." In Bhawmick's play, S.N. Bose narrates this story to Acharya Prafulla Chandra Roy.

Meghnad is not a linear play: It is a selection of events from Saha's life that illustrate the juggernaut of caste in every sphere.

his curation has met with criticism - the play was staged for the first time this year in September at the Academy of Fine Arts. The second and third shows, on October 31 and November 8, were also held there. At the second staging, a member of the audience pointed out that Saha's contribution to river planning was missing, another grumbled that it made no mention of Saha's ionisation equation.

Astrophysicist Sandip Kumar Chakrabarti of the Indian Centre for Space Physics in Calcutta says, "Not only can the Saha ionisation equation measure the temperature of stars, it was also important for understanding the origin of cosmic microwave background." Sen too laments they could not accommodate the story of Sahn's planned scientific calendar. But his point is that the curation of events, the emphasis on caste and coteries, was necessary. "It is a biopic with a purpose, and that is to show that science must be accessible to all. We, in India, talk about rucism but India is the birthplace of exclusionism," says Mukherjee.

Bhawmick points out how Saha was ignored both by the international community as well as the Indian scientific and governmental organisations.

The play, which is framed by Nehru's visit, ends with a rather charged interaction between the scientist and the first Prime Minister, Saha excitedly accuses Nehru of misusing science and Nebru makes his own calm defence. But the disagreement does not translate into a disconnect, at least not for Nehru. He hails the rather distillusioned and embittered Saha as a "live cyclotron" propeiling his students towards a

And as he leaves the stage he tells Saha, "Don't stop

better society.

criticising me." Some things have certainly changed TeV9/13

HINDU (P-08), 10 NOVEMBER 2025

How should law schools change attendance norms?

What did the Delhi High Court's judgment in the Sushant Robilla case stipulate?

G. S. Baipai

The story so far:

he Delhi High Court's Judgment in In Re: Swicide Committed by Sushast Robilla, 2025 examines how universities should exercise disciplinary authority within the constitutional framework of fairness and reason. The case arose from the 2016 suicide of a law student harred from writing exams due to attendance shortage. The Court converted the incident into a public interest inquiry on whether attendance policies align with fairness and proportionality. Delivered amid growing concern for student welfare, the judgment underscores that academic autonomy must operate within constitutional discipline.

What was the core issue before HC? The Court clarified that the case was not concerned with attendance per se but its enforcement. Many universities debarred students once attendance fell below the limit, without warning, commelting or discussion. Such mechanical application violated procedural fairness and constitutional standards.

The judgment draws from Article 14's doctrine of non-arbitrariness and procedural fairness. Universities exercising disciplinary powers are public authorities subject to constitutional accountability; their decisions must be reasoned, proportionate and just. Fairness here is not merely procedural but a constitutional value linked to Article 2's protection of dignity and mental well-being, it safeguards due process and students' welfare as part of the constitutional promise of life with dignity.

Did BC invalidate attendance rules? The Court upheld attendance norms but objected to rigid enforcement. It afformed the Bar Council of India's (BCI) authority. under Rule 12 of the Legal Education
Rules 2008 to require 70% attendance,
relocable to 65% in exceptional cases, but
called the framework "extremely strict"
and urged reconsideration in light of the
National Education Policy (NEP), 2020
and UGC Regulations, 2003, both
scressing flexibility and learner-contred
education. Attendance, when enforced
mechanically, can become an
exclusionary barrier. The rule remained
wild, but its uncompromising application
was held disproportionate. The Court
viewed debarment as an extreme step
with grave academic consequences.

What must universities now follow? Post-judgment, certain procedural steps must be observed before any denial of commission on strendance grounds such sweekly attendance updates through portals or notice boards and monthly shortage notices to students and guardians for early inservention: counselling, and opportunities to address shortfalls through extra classes, home assignments or recognised academic activities such as legal-aid work; recording medical or mental-health issues or hardship; and notice and opportunity for representation. Fairness requires price notice and a real chance to respond before any final decision. If, despite these remedial efforts, a student still fails to meet the required attendance, they may be deborred.

What are the implications?

The implications are institutional, cultural and podagogical. Universities must foster supportive environments, integrate counselling and establish Grievance Redressal Committees with student representation. Debarment can no longer be informal or automatic, they must be reasoned and open to representation. Experiential learning through moots. internships, research or legal-aid work must count toward engagement. Attendance should encourage participation, not policing. Moreover, the BCI must revisit Rule 12 in light of NEP 2020. No law school may impose stricter norms than those prescribed.

The Sashent Robilly judgment marks a milestone in aligning higher education governance with constitutional values.

The author is Vice Charactler, National Law University, Inputs from Vibinal Sharma, Views are personal.

THE GIST



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Reviving Nalanda's legacy in modern education



BK JHA

2_{ND} OPINION

The roots of monastic education in India trace back to ancient religious and philosophical traditions, particularly within Buddhism. From the 5th century BCE, Buddhist monasteries, or viharas, emerged as structured centres of learning. Initially seasonal retreats for meditation and study of the Buddha's teachings, they evolved into permanent institutions offering systematic education in scriptures, ethics, logic, and philosophy.

Renowned centres such as Nalanda, Vikramasila, and Takshashila became magnets for scholars across Asla, embodying a holistic educational model that emphasised discipline, moral development, and intellectual inquiry. This legacy safeguarded Buddhist philosophy and established early models of lifelong, value-based education still relevant to modern pedagogy.

Nalanda represents the most sophisticated expression of this system. While earlier monasteries focused largely on spiritual development, Nalanda Mahavihara (sth-izth century CE) evolved into a vast, organised university with residential facilities and a structured curriculum. It integrated Buddhist philosophy with secular knowledge—teaching grammar, medicine, astronomy, mathematics, and the arts. Its multidisciplinary and inclusive approach encounaged debates, lectures, and commentaries, attracting students from China, Korea, Tibet, and Southeast Asia. More than a spiritual centre, Nalanda embodied the union of faith and reason, viewing education as a pursuit of universal

enlightenment rather than sectarian learning. In this spirit, the National Institute of Open Schooling (NIOS), in partnership with the Indian Himalayan Council of Nalanda Buddhist Tradition (IHCNBT), has launched a pioneering initiative to modernise and formally recognise monastic education across India. Traditionally conducted in Bhoti, this education preserves a rich repository of Buddhist knowledge and Indian liberary heritage. The works of scholars like Nagarjuna, Vasubandhu, and Dharmakirti — alongside Sanskrit classics such as Meghaduta, Kavyadarsa, Amarkosha, and Ramayana — testify to its intellectual depth.

Covering Elementary, Secondary, and Senior Secondary levels, the programme bridges traditional wisdom with modern educational frameworks. Rajeev Kumar Singh, Director (Academics) at NIOS, calls it "a bridge between ancient wisdom and modern opportunity," stressing that the goal is not to secularise Buddhism but to empower learners and ensure their knowledge receives equal respect while engaging meaningfully in modern society.

The IHCNBT, representing Buddhist communities across Ladakh, Himachai Pradesh, Uttarakhand, Sikkim, Arunachai Pradesh, Jammu & Kashmir, and North Bengal, plays a crucial role in institutionalising this effort. For Maling Gombu, its General Secretary, the initiative is both educational and patriotic — strengthening the Indian identity of monastic institutions and ensuring monasteries remain vibrant centres of learning rooted in Indian civilisation.

Today, about 132 monasteries across the Himalayas have been accredited by NIOS, enrolling nearly 10,000 learners. This historic integration of monastic education into the national framework is not merely an administrative reform — it is a cultural retaissance. The Bodh Darshan intiative dignifies centuries-old Himalayan learning, reaffirming India's position as the spiritual and intellectual cradie of Buddhist thought.

The writer is a Septer Journal of who writes as socio-economic affairs



Why access to knowledge is crucial for innovation

How will restricting free flow of information hamper innovation and growth in economies?

Rabul Monos

he current Nobel Prize in Economics has been given to these expensives - joel Mekyr, Philippe Aghion, and Peter Howin - who have studied the role of technological change and creative destruction in economic growth. While the work of the later two would be more readily recugnisable to the modern economist, Mekyr adopts a historical lens to study the relationship between knowledge, ideas and contemic growth.

What was Mokyn's model?
Mokyn's model makes a distinction between two kinds of knowledge propositional and prescriptive. The furmer is knowledge about scientific phenomena and principles, while the latter concerns knowledge about techniques. Economic growth occurs with an increase in both kinds of knowledge.

where societies possess not just acterutic or theoretical knowledge, but also the knowledge of orchritiques to put them into use. What is important to understand is that it is not enough for society to merely possess knowledge, what matters is that a majority of members are able to access this intowiedge, and that social norms promote the sharing of knowledge and free exchange of ideas. Technological progress is not merely an economic process, but a social and cultural outcome regulating the spread and sharing of knowledge amount acceive.

Mokyr tells us the importance not just of generating new ideas, but of sharing and communicating these ideas. Free markets do not automatically guarantee growth, and state intervention does not ensure negative growth prospects. Instruct, anything that restricts the free flow of information directly hampers innovation and growth. In their respect, one can point to certain notal institutions

in India that have hampered growth such as case—while being aware of the potentially negative effects of job polarisation and automation in restricting the spread of knowledge amongst theoriest and practitioners.

Does the caste system stop growth? The social institution of caste in India has immered that knowledge was the preserve of an elist minority, with victories being used to restrict access. Following Independence, policy proposals such as reservations have been introduced to rectify this balance. However, access to high quality education still remains out of reach for many, while the slow retreat of the public sector ensures quality aducation once again summing the arreserve of the edite.

Noicy 's work shows us the dampers of not ensuring universal access to quality knowledge. What matters is not just the extent of knowledge accumulated by a society, but whether enough individuals have access to it in order to use it to trainer, experiment, and device new techniques to introduce economic immovations. The existence of knowledge but with no meaningful access to it is as good as a society that processes no knowledge at all. The extreme fragmentation of caste implan that not only is education restricted, but rigid ontwentions that ensure communities do not meaningfully interact further restricts interestions.

In this regard, one can see the importance of beaking down caste barriers, and improving educational access as well as ensuring quality education for all. This is of relevance given the slow recover of the state in education and the rise in private universities. Much of the population may be unable to access quality education owing to high feet and lack of mercurations in private universities.

What about automation?

Current labour markets have been thrown and disarray and profound uncernative with the introduction of automation down by Al.

The threat of job displacement is serious, but there is another, deeper question: what happens to the sharing of practical knowledge about capital and techniques when fewer individuals have acress to 19.2 automation brings with in the acress to 19.2 automation brings until in the problem of job polarisation, where much of routine work is performed by machines and/or AL with humans in either highly skilled tasks or performing service occupations, such as in restaurants. This could potentially reduce the share of worldpece who actually have knowledge a of modern techniques. The transmission of knowledge about sodurings of production requires long periods of familiarising oneself with the methods of operation, through personal contact, training and hands-on experience. Automation can have significant productivity effects, and might even prove to raise growth over time. But what happens to the sharing of knowledge of techniques if much of the labour force does not even have access to these new techniques?

If inaccessible education and metricine social institutions keep propositional knowledge restricted, and job polarisation and anomation ensure posteriptive knowledge is out to reach, economy-wide ismovation is bound to suffer. The transformation of knowledge into innovations and growth depends on the cultural aid social norms desermining the costs of access to knowledge. Democratisation of education, for from being inimical to economic efficiency, is actually an important condition to ensure faster growth.

Rebul Mense is associate professor at O.P. Jiedal Global University.

What happens when public knowledge is created on private infrastructure?

Recent advancements in Al are raising concerns about the corporate monopolisation of knowledge and the urgent need for equitable access to research, prompting discussions on the future of innovation and collaboration

Vasudevan Mukunth

ver the past year, a considerable amount of recognition for Machine Learning (ML) has gone to researchers working in or alongside large technology firms, even as recent advances in Artificial Intelligence (AI) have been financed and built on corporate infrastructure.

In 2024, the Nobel Foundation awarded the physics prize to John Hopfield and Geoffrey Hinton for contributions that enabled learning with artificial neural networks, and the chemistry prize to Demis Hassabis and John lummer for protein structure . prediction (alongside David Baker's computational design). Mr. Hassabis and Mr. Jumper were employed at Google DeepMind at the time of the award; Mr. Hinton had spent a decade at Google before departing in 2023. These affiliations don't erase the laurestes' academic histories but they do indicate where prize-level research is now being performed.

This change rests on material conditions as well as ideas. State-of-the-art models depend on large computing clusters, curated data, and engineering teams. Google's programme to develop Tensor-Processing Units (TPU) for its data centres shows how fixed capital can become a scientific input rather than only an information technology cost. Microsoft's multiyear financing and Azure supercomputers for OpenAI reflect the same political economy from a different angle.

Case for public access

Any research with public provenance should return to the public domain. In this context, public money has supported early theoretical work, academic posts, fellowships, shared datasets, publishing infrastructure, and often the researchers themselves. In parallel, the points at which the value became excludable lay increasingly downstream: with respect to

computing resources (shortened as compute), this includes rights to data and code, the ability to deploy models at scale, and decisions to release or withhold weights. This helps explain why recent Nobel laureates have been situated in corporate laboratories and why frontier systems are predominantly trained on private cloud systems.

In the 20th century, firms such as Bell Labs and IBM hosted prize winning basic research. However, much of the knowledge then moved through reproducible publications and open benchmarks. Today, reproducing the work of Mr. Jumper, for example, can require large compute budgets and specialised operations expertise. As a result the concern isn't only that corporations receive prizes but that the path from a public insight to a working system is infrastructure and contracts controlled by a few firms.

The involvement of public funds should thus create concrete obligations at points where technology becomes enclosed for private control. If an academic laboratory accepts a public grant, the deliverables should include the artefacts that make the work usable, including the training code, evaluation suites, and weights in the AI models to be released under open licences, if a public agency buys cloud credits or commissions model development, procurement should require that the benchmarks and improvements flow back to the commons rather than become locked into a vendor.

Remove bottlenecks

The argument isn't that corporate laboratories can't do fundamental science; they clearly can. The claim is that public policy should reduce the structural advantages of private control. Consider the release of Google DeepMind's AlphaFoid 2, which, together with its code and public access to predictions, allowed researchers beyond the originating lab to run the system on (reasonably) standard hardware, retrieve large numbers of precomputed

structures, and integrate their results into routine workflows. All this work was supported by public institutions that were willing to host and maintain the resources.

Where the corporate stack is indispensable, such as when training frontier models (with billions or trillions of parameters), claims about 'responsible release' often ironically translate to a closed release. Instead, a more consistent position should be to link risk management to a structured model of openness – perhaps one that includes staged releases, access to weights, open penetration testing tools, and a clear separation between safety rationales and business models – rather than allow private entities to resort to blanker secrecy in the name of safety.

The same logic applies to compute: that is, if computing resources become a scientific bottleneck, they should be treated as a public utility. National and regional compute commons should allocate resources for free or at-cost to academic groups, nonprofits, and small firms, and qualify them on open deliverables and safety practices. The ultimate goal is to restore the ability of public institutions to reproduce, test, and extend leading ML work without having to seek corporate permission. Without such a commons, however, publicly funded ideas will continue to be turned into working systems on private clouds and returned to the public as expensive information products.

Indeed, while it's tempting to treat the entities employing the laureates and funding pipelines as separate issues, one symbolic and the other structural, they're connected by the computing resources. The fact that the Nobel laureates worked at Google DeepMind reflects where teams with MI. scientists, domain experts, data, and compute now operate. Likewise, the fact that the most visible systems of the past two years were trained on Microsoft Azure under a financing agreement explains who could attempt such training. Both facts reflect underlying resource

concentrations.

Beyond industry vs academia

Public agencies' response should be direct – by, say, tying funding to openness in grants and procurement and requiring detailed funding disclosures and compute-cost accounting in research papers. Where full openness would create unacceptable risks, agencies can use equity or royalties to fund compute and data commons that support the wider ecosystem. For corporate laboratories, on the other hand, their credibility should rest on measurable contributions to the commons.

Journalists and the publics should also move beyond an 'industry versus academia' framing.

The relevant questions are who sets the research agenda, who controls infrastructure, who can reproduce results, and who benefits from deploying the resulting AI models. Interpreting the 2024 Nobel Prizes as industry victories alone would miss the point that the knowledge base is cumulative and relies on public inputs, while the capacity to operationalise that knowledge is clustered. Articularing this pattern allows us to recognise scientific merit while demanding reforms that ensure public imputs produce public returns - in code, data, weights, benchmarks, and access to compute.

To be sure, the central conclusion isn't resentment about corporate salaries but responding to the fact that breakthroughs are increasingly occurring at the intersection of public knowledge and private infrastructure. The policy programme should be to reunite the layers where public and private enterprises diverge – artefacts, datasets, and compute – and to bake this expectation into contracts and norms that govern research.

In these conditions, future awards can be celebrated with corresponding public benefit because the outputs that make the science usable will be returned to the public.

With fewer doctors becoming specialists, a crisis looms



SIVABALAN ELANGOVAN

S POSTGRADUATE COUN-SELLING for NEET begins, I am repeatedly approached by young medical graduates with the same question: "Which specialty should I choose?". I've noticed a change in their preferences. They no longer ask which branch saves the most lives or offers the greatest career growth. Instead, they ask: "Which course gives me less work, fewer litigations, and a peaceful life?"

Decades ago, most MBBS graduates were from modest backgrounds and their motivation was to build a career, serve society, and grow professionally. Today, many are from relatively secure circumstances. Their priorities are peace of mind and work-life balance. This change did not occur suddenly.

In 2019, India introduced the Competency-Based Medical Education (CBME) curriculum to produce more skilled, patientready doctors. The intention was noble; the impact mixed. CBME made learning structured but increasingly mechanical. Students tick boxes in logbooks, complete checklists and meet competencies, undergo frequent assessments and heavy documentation but lose the freedom to explore. The goal shifts from learning medicine to clearing exams. With overwhelming content, cognitive fatigue sets in. Curiosity fades.

Meanwhile, India's health system has shifted. The rise of corporate hospitals has reduced opportunities for independent practice. Earlier, a young specialist could open a clinic, build trust and grow. Today, that path is narrow. Corporate hospitals offer minimal room for individuality or entrepreneurship. Doctors feel like employees, not professionals shaping their careers. Ambition dulls.

Mental health weighs heavily on specialty choices. Suicide rates among doctors are higher than in the general population. Juniors watch seniors exhausted after 36-hour duties. They see strained families. The message they internalise is simple: Do not take on too much. Do not go into branches that demand your whole life. So when it comes to super-specialties, many step back. Why spend years in training for

more duty hours, more risk, and little reward? Super-specialty courses like DM and MCh are demand years of hard work and commitment. But when completed, the pay does not match the effort.

A surgical gastroenterologist or cardiothoracic surgeon may perform challenging life-saving surgery every day. Yet, in the government system, their salary equals that of a doctor in primary health care. There is no recognition for the extra years, the higher skill, the constant stress.

In a recent super-specialty counselling in Tamil Nadu, more than half the seats went vacant. Government doctors in particular were reluctant. Government hospitals face a growing shortage of specialists. The poor, who rely on public hospitals, will suffer most. This is a silent public health crisis.

It is easy to accuse young doctors of lacking ambition, but that is simplistic. They are not seeking luxury; they are seeking sanity. Their reluctance is not weakness but a rational response to the system that offers little reward for sacrifice.

The old guard says, "We worked harder. We faced worse, Why not you?" But the context is different. The earlier generations saw hope. They opened clinics, built hospitals, and rose on their own terms. That path is closed. The corporate model has taken it away. Now, the choice is between being a cog in a machine or fighting burnout in the government system. If India wants strong superspecialists in the public sector, the system must reform. Acknowledge their service through higher pay scales, allowances, or faster promotions. Their workload must be regulated through clear duty hours, adequate support staff, and reduced administrative burden. The government should also provide support for career development.

Without these changes, the pipeline of super-specialists will keep drying up in government hospitals. The crisis will not stay silent. The price will be paid not only by doctors, but by millions of patients.

The writer is, professor and head, Sri Lalithambigai Medical College Hospital, Chennal

If India wants strong superspecialists in the public sector, the system must reform. Acknowledge their service through higher pay scales, allowances, or faster promotions. Their workload must be regulated

What govt's AI guidelines mean for tech regulation

The recent guidelines suggest risk management within the existing framework of laws under the guiding principle of 'Do No Harm'

Soumvarendra Barik

New Delhi, November 10

THE MINISTRY of Electronics and Information Technology (MeitY) has unveiled governance guidelines for Artificial Intelligence (Al), which could serve as a blueprint for how India regulates the technology, balancing innovation with accountability and growth with safety.

The government had earlier signalled that it may not tighten the regulatory noose on Alijust yet, as it believes the technology could help flourish an innovation economy in the country. As such, the guidelines recommend an India-specific risk assessment framework, a national AI incident datahase, and the use of voluntary frameworks and techno-legal measures, such as embedding privacy or fairness rules directly into system design.

The guidelines do, however, flag the need to carry out effective "content authentication", as synthetically generated images, videos and audio flood the Internet. Here, the government has already proposed legal amendments to a key legislation, which would require companies like YouTube and Instagram to add visible labels to Al-penerated content.

The launch of the guidelines comes ahead of the India-Al Impact Summit 2026, which will be the first-ever global AI summit hosted in the Global South.

Prof Ajay Kumar Sood, Principal Scientific Advisor to the Government of India, said at the launch, "The guiding principle that defines the spirit of the framework is... To No. Harm! We focus on creating sandbowes for Innovation and on ensuring risk micigation within a flexible, adaptive system."

What the guidelines say

The report's key recommendations are organised around six pillars infrastructure, capacity building, policy & regulation, risk mitigation, accountability, and institutions.

INFRASTRUCTURE: The report calls for expanding access to data and compute resources, including subsidised graphics processing units (GPUs) and India-specific datasets through platforms like Alkinsh. It urges integration of Al with Digital Public Infrastructure (DPI) such as Aadhaar and Unified Payments Interface (UPI). It also urges the government to incentivise privace investment and adoption by MSMEa. with tax rebutes and Al-linked loans.

REGULATION: India's approach will be agile and sector-specific, applying existing laws (like the IT Act and the Digital Personal Data Protection Act) while plugging gaps

THE ACTION PLAN



EMPOWER THE India Almission, ministries, sectoral regulators and state governments to increase Al adoption, through initiatives on infrastructure development and increasing access to data and computing resources

ADOPT A graded liability system based on the function performed.

level of risk, and whether due dilgence was observed.

INTEDRATE Al with Digital Public Infrastructure (DPI) to promote scalability, interoperability and inclusivity

CONDUCT SAFETY sesting and evaluations.

INCREASE DATA availability, shoring, and usability for Al development. and adoption with robust data portability standards and data governance frameworks

ENCOURAGE THE use of locally relevent datasets to support the creation of culturally representative models

through targeted amendments. The report rules out an immediate need for a standaione Al law, but calls for undates on classification, liability, and copyright, including consideration of a "test and data mining" exception. It also urges frameworks for context authentication to counter deepfakes and for international cooperation on Al standards.

S Krishnan, Secretary, MeirY, said at the launch, "Our focus remains on using existing legislation wherever possible. At the heart of it all is human centricity, ensuring Al serves humanity and benefits people's lives while addressing potential harms."

RISK MITIGATION: As stated earlier, the report proposes an India specific risk assessment framework to reflect local realities, along with the use of voluntary frameworks and techno-legal measures.

ACCOUNTABILITY: A graded liability regime is proposed, with responsibility tied to function and risk level. Organisations must adopt grievance redressal systems, transparency reporting, and self-certification mechanisms.

INSTITUTIONS: The framework envisions a whole-of-government approach,

Key Points

While there is a belief that Alshould have little regulatory burden, there are concerns about data privacy and inference risks.

There is no consensus on what should be done when AI systems are used bygovernment officials.

led by an Al Governance Group (AIGG), supported by a Technology & Policy Expert Committee (TPEC), and technically backed by the Al Safety Institute (AISI).

CAPACITY BULDING: The guidelines emphasise Alliteracy and training for citizens, public servants, and law enforcement. They recommend scaling up existing skilling programs to bridge gaps in smaller cities and enhance technical capacity across government institutions.

How guidelines were prepared

The guidelines were drafted by a highlevel committee consisting of policy exports under the chairmanship of Prof. Balpramon Ravindran, ET Madras.

According to Abhishek Singh, Additional Secretary, MeitY, and CEO IndiaAI. "The committee went through extensive deliberations and prepared a draft report, which was opened for public consultation. The inputs received is a clear sign of strong engagement across sectors. As AI continues to evolve rapidly, a second committoe was formed to review these inputs and refine the final guidelines."

Red flags over officials' use of Al

Even as the government looks to encourage Al with little regulatory burden, there are internal red flags over data privacy and inference risks, especially when such systems are being used by key government officials.

What happens when a government officer uploads an internal note to an Al chatbot for a quick summary? When a police department asks an Al assistant to optimise CCTVs across a city? Or when a policymaker uses a conversational model to draft an inter-ministerial brief? Can the Alsystem analyse such prompts at scale, identify the user, infer their role, draw patterns across queries and predict strategic intent?

These questions are being debated in sections of the Union government, The Indian Express had earlier reported, amid growing concern about the rapid proliferation of generative Al (GenAl) platforms in India, especially those run by foreign firms. often bundled as free services with telecom subscriptions.

Two broad areas are under discussion. First, whether queries made by top functionaries - bureaucrats, policy advisers, scientists, corporate leaders and influential academics - could be mapped to identify priorities, timelines, or weaknesses.

Second, whether anonymised mass usage data from millions of Indian users could help global firms. One issue, sources said, is whether to "protect" official systems. from foreign Al services.

Proposed AI content labelling

As per the draft amendments to the IT Rules, released last month, social media platforms would have to get users to declase whether the uploaded content is synthetically generated; deploy "neasonable and appropriate technical measures", including automated tools or other suitable mechanisms, to verify the accuracy of such declaration; and, where such declaration or technical verification confirms that the content is synthetically generated, ensure that this information is clearly and prominently displayed with an appropriate label

If they fall to comply, the platforms may lose the legal immunity they enjoy from third-party content, meaning that the responsibility of such platforms shall extend to taking reasonable and proportionate technical measures to verify the correctness of user declarations and to ensure that no synthetically generated information is published without such declaration or label.

The soul of a university lies in its creative spirit

BEST CHANGNAPALAN diversities have obstrobensiewal os sanctuaries uf knowledge. emedians of intellectual tentuce, and/construits of second advancement. However, underlying these functions is perfound abbasion - universities, any tandamentally creative mentions. They are not sizero stores of information proof/intifficients comes. but donamic environments

where exceptivity in first seed. carbott is appropriated and movel opportunities concern. Centivity is not a aggirmentary aspect of the introdity allow it is its feedamental core. In its absence colleges fear mandamning one sterile redoxfoling factories, vielding graduates who may possess side on both prepare observing.

Trustscending knowledge dissemination

The prevailing view of universities inquently centresmounteenviolisenvolv. inovloka: Students enrolto gain knowledge from faculty.

develop subject specifie profesence and good use with degres that necessary employment opportunities. This role is countial, yet imécunite inan ero where knewledge is readily accessible thorugh ordinerepostories and artificial leadibures soft, but kuriore. must provide more than meninformation dissemination.

That 'something' is creativity-the capacity to criquiac, to link correspt's across bolders, and to reconcegnation problems and themes butions. Creativity transmittes raw knowledge interwention on. critical throught, and societal transformation. As institution that confines theif to note menorisationer mechanical skill acquisition undermines its fundamental mission. Circularity crapeworn students and researchers to not only comprehend the world bia. abotion envisor authorium

The university as a cre-

ather ecosystem Capathyly in universities must not be confused with the stereotype of priisic expression alone. Although music literature, and mainting.

indispensible creative endervous mortetty is equally mital influence or greeting. Exception and radioactions. Carathers is emboding in the domains of a biologica who is directing and a speciment. a bover who is reframing an argamon, and or enpirior who is a residence sustainable

Criverottiessbeute Lauciera as ecosystems that foster the development of analysis. This estads the promotion of uncleared rak taking, the cultivation of mendsciplings dislogue, and the provision of the opportunity to fail withing fear of sependussion. Unconventional thinknesses defied the boundaries of coublished disciplines was the source of some of the greatest bacakelrooghs in harnaritistory including the them of extution the simples. of ENA, and the privile of quantum medianics. Universities mustactively fosterthis ethos. by existing the hungascratic presures that frequently stiffe

Creativity as a form of resistance to standardisa-

Assent learned arranted in resation in contemporary rolleges is the culture of uniformity. As worldwide rankings. necrediting systems, and performice receives professe: colleges under mounting program to adhore to quantifiable outputs research publications, nuteros employment statistics. or undert grades. Although accountaining is muchal upproremphosison quantitativo netric threaters to transform intervities into mechanical emities author their vibrant

intellectual communities.

Creativity opposes this uniformity, it doubbles on diversity arguedicts billiound the quest for engalities that new not provide immediate mommerally vial feroporses. A roses crafting complex instabliers, a physicist cornemptating theoretical uddities, or a sociologist interacting with surgiculised armetis-houndaoin ma neuroleenconvertical resource, yet their enfronce the academic of how and, by estension, society as a whole Subquarding immension to Equipment to the service of the servi assence of the university.

Historical role of creativity in universities

History illustrates that innovation has consistently been fundamental toogsalemic endeavour. The medieval universities of hologua. Paris. and Oxford served as habe of religious ethnolos; andvictors fee schobalt debate, argamentation, and sometimes. deliance of authority. The Remissance revenity energed availabe/harrarist irrovation promoting progress in science. ort, and philosophy. The tumboldtian concept of the contemporary record runiversity in 19th-century Germany explicitly integrated teaching and research, highlight northw innevative good for lesowledge.

tatedia historicalinstrators sedrai Nobradi ara Philefosóida exemplifical inventiveness through the integration of philosophy, medicine, multernatios, and actionome centuries ago. Their collagse acts as a constitution to take the loss of creativity results in diminished vitality for colleges. Modern colleges must thus sosonetristralities normanly to continemorate their history Intralio to ensure their faturo.

thus, in the current discoveries. 00006

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Assorbation, artificial intelligence and plobalisation are rendering conventional skills obsolete. The distinctly homan attributes are the capacity for divergent thinking. imposition, ententity, and the creation of recoming, the World Economic Ferent continually identifies creativity. problem-estring, and entical thinking as key abilities for theficture worldone Employers incosing/optivitie graduates who demonstrate adoptabliky. interdisciplinary collaboration. and innerotive problem solving animaches, Consequently, universities that prioritise innovation achieve their academic objectives and propore students for roduring empleyability.

Instructional methods for fastering creativity

How customiversities cultivate countivity (Fit is fundamental) tetherethes?Theseletionis ineducation.com/colors.and irecitational culture.

1. Interdisciplinary learning: Creativity/inquently emerges at the confluence of surious. fields. Universities must dismuntle sites and permit students in enrol in interdisciplinary courses. fortering the exchange of ideas. A computer science student studying philosophy, or a prochology readers investigating music, can yield unforeseen

3. Inquiry-based pedagagy: Instruction should privately questioned, discovery and experimentation above onememorisation. Assignments mast compel pupils to find innovative anywers toyonall of merely reterating current

3. Promoting risk and failuse: Creativity flourishes when children are uncovarabered by the form (Tallane Charantein) ought to transition from punishing grading systems to evaluative approaches that

incentivise irrestingueses, critical thinking and perseverance.

4. Spaces for expression: Universities ought to establish both physical and intellectual environments that enable students and staff to engage in exploration beyond the absertom - sachas in evanon laboratories, art studies, discussion forums, theatrical groups, and maker spaces.

Mentorship and collaboration faculty should function not as gatelycapen of knowledge, but as memors who advise, motivate, and collaborate with students. Collaborative properts and peer learning foster enesting confidence.

Creativity as a civic obligation

Creativity at colleges incompasses personal satisfaction, contorne benefit. and civicaspects. Universities are integral to society, and Innovative outputs whethernewithen. technology; or cultural surratives-influence the contribritistic. An introvative university can assist in building. urgent lisues such as elimate change, containing testor, public health and ethical dilemman

intechnology. Furthermore, institutions: must fuster lanorative dilizens. ruther than morely profesent. englisyees. Acres liverainthet. authories or parties an optioness. and critical involvement in democratic processes. In an era of societal polarisation and sampunt misinformation. startitus reum enstantanti inflaktors contricularization or include Emperand challenging. reductive narratives. Consequently treativity is an othical and more obligation.

Challenges and tensions

Of course, that's easier to say than to achieve when it cornectochemaraphrocountery incologis, faculty irerabets often have a lot of classes to reach not enough money, and rules that make it hard for themogyneythings Studiens ontheotherhand baysocictal pressure to choose 'safe' job ortions of itchulaesa terroride much room for saking innevative

ricks. There is also a conflict between institutional rules and imeliectual independence. Universities and so find a middlegroun.lbetweenmoking. sum that southers are responsible and doing things right, and giving them the feedom to partitioners ways. Too much red tope or political modeling can still countries while too much freedom without responsibility can lead to medicents: So, the spirit of irrovation needs to be an extent and recentared all the time.

Conclusion: Reclaiming the creative university

Arridot the metal challengs confronting. higher edication-market edgendes. technological ophowals, and governmentallovesdate-the individuo dininimantentis tomore utilitarian institutions is compelling, However, such an action would deprive them of their fundamental nature. Cepalvity is not always that coffeges can afford to forfeit:

it is their essence. To rekindle interest in universities as oversiformative versues, society must scuffern creativity as their finulamental character Covernments should finance inquiry basedresquark. Administrators most safes and real recol afterty; Faculty runs mentor ocutively. Studento should venture to investigate

beyond the carriculum. The value of a university is determined not salely by the degrees it confern but by the ideas's cultivates the mosts we it forces and the opportunities it presents for humanity. A university devoided in postulon. resembles a hody facking a sent To sustain the persuit of introvinded creativity must maintain its vital essence.

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International curricula: A gateway to global success

MMA SINGH

aswe see the global economy erida evolving, especially to cross-border collaboration, education estems too must prepare midents for a future that will war an interconnected world. While traditional academic sedaposies relied on rote semine international curricula och as Bourture the thinking and analytical capabilities of students, making them figure-ready. These skill sets serve as a preparation for global competencies, and this aromach prepares students for the evolving expectations of parents, while opening up opportunities to be successful in higher education and in careers throughout the globe.

Nurturing thinkers, not memorisers

The education system has shifted its focus to the holistic development of students with an emphasis on inquiry-based learning. Teamwork, critical thinking, and investigation are the key skills required by students. While it enhances the way students approach problem-solving, the 1B curriculum makes higher education across the globe withinsachas their acceptance to top colleges increases.

The IB curriculum is unique, it is a concept driven in quiry-led methodology that transcends conventional content-beavy education. It equips students to take control of their own learning by fostering a strong culture of independent thought, academic writing, and research,

The IB curriculum has various ways to Impart Ienoviedge. The Extended Essay (EE), Creativity Activity Service (CAS), and Theory of Knowledge (TOK) are central to the IB curriculum that fessers a global perspective and interdisciplinary thinking. While the students prepare rigorously for academic achievement, the unique assessment practices helptake another stride towards a global future.

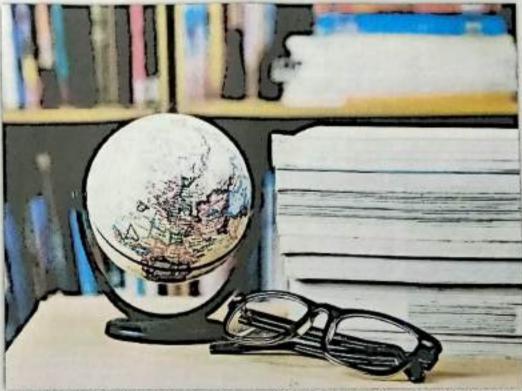
Teaching beyond boundaries

NEP 2020 has been emphasising sidls, enquiry based learning and a comprehensive approach to education. This makes Mouricula more relevant than ever, Interestingly, there are more takers for the IB curriculum not just in metro cities bug in Tier 2 and Tier 3 cities as well. While it is still. in its nascent stage, and there are multiple issues such as increased expenses, demand for qualified teachers, and a change in the mindset of marents and students, the IB curriculum is becoming more popular.

A solid foundation needs to be established to achieve a long term vision, and it must be backed by government policies and leadership that can ster the observation, in the right direction.

Guiding students towards global readiness

For students to understand how international curricula can open the doors for more global opportunities, the schools need to evolve from being a



mere counselling cell to a college guidance programme with a structured four-year framework starting from Classnine.

We must ensure that our students follow a guided path towards university readiness starting in Grade nine. That is the time when students need to identify their strengths and opportunities. For this workshop psychometric testing, and interest surveys can be included. University fairs and alarmit panels enable students togain exposure as they engage one-to-one with people who have already walked on the path that the young aspirants are moving towards.

To make the most of the opportunities that they have, students must establish their expertise in academic writing, and their course choices must reflect their aptitude and artitude.

Creating global exposure and opportunity

Students can visit Global

University Fairs, where they can interact with various universities and explore career prospects, and there is a lot more that can be done. Students can be provided with direct international involvement through summer schools. virtual masterclasses, and cooperative academic projects, thereby strengthening the ties. Additionally, creating exchange and immersion programmes that will enhance cultural invareness and global learning. is a must.

Parents who are aspiring to empitheir children in IB schools should view the academic course as a journey that will enable their child to become resilient and adaptable and he able to compete globally. To be able to get global opportunities and truly succeed in life, one must lay the foundation now and prepare future learners to ace what they set their heart to.

THE WRITER IS HEAD OF SCHOOL DPS INTERNATIONAL STATESMAN (P-11), 11 NOVEMBER 2025

Shaping tomorrow's educators today...

KRISHNASISH DASGUPTA

It is no secret that the world of education and its various domains are pretty fathomless, to say the least. Gamification, as a concept of sorts in education, is not something fairly new. The many game-based elements that teachers often use in the classrooms are an intriguing one indeed, and the purpose remains equally interesting as well.

It is rather simple- to enhance student-engagement and overall integrate and incorporate those learnt techniques into the entire learning process. For effective learning, gamification in classrooms often is a thing that promotes natural excitement among the students.

The Department of Education of Sitaram Mahato Memorial College, Purulia, and Baneswar Sarathibala Mahavidyalaya jointly presented a very insightful event recently. The entire event was held in collaboration with Boithoki, an academic forum spearheaded by professor and educator Ujjwal Mahato as part of their

fortnightly online educational lecture-series.

A free-for-all lecture was presented online via Google Meet. Samrat Bisai, professor at Ramakrishna Mission Brahmananda College of Education, Rahara, was the primary speaker and academic analyst who spoke on 'Gamification in classroom: Navigating within and beyond'. Professor Bisai felt that students all across are very much used to the traditional method of learning involving lectures, classrooms, teachers, and finally the students. It is a somewhat sardonic reality that in the traditional method, students actually turn out to be 'silent listeners.'

It is in this context, 'gamification' always helps as it tends to make the curriculum attractive and paves the way for interactive, meaningful learning in the classroom.

Another RKMBCE professor, Manoranjan Pal, opined, "See, gamification in an educational setting can always leave a profound impact. Many classrooms in the country are multilingual. Hence, when you use a concept like gamification, it actually helps in the overall diversity of these classrooms."

Despite all kinds of challenges, gamification as a concept can invariably make learning both exciting as well as meaningful. For a country like India, often dubbed as a 'Linguistic Mosaic', linguistic diversity realistically poses some sort of threat as well as an opportunity for India's unity.

Blueprint for liberal arts education in the AI age

India must embrace an interdisciplinary approach. This trains the mind to connect disparate domains. As AI masters single domains, it is the human who will remain uniquely capable of seeing the whole

Te stand at an inflection point in human history. Artificial Intelligence (Al) has moved from the resimof speculation to omnepresence — impacting significantly how we work and learn. Algorithms today compose music, design software, diagnose diseases, and mimic human reasoning. What began as a search for efficiency has become a new way of seeing and shaping the world.

As machines increasingly acquire the capacity to process, analyse, and even "tanis", the critical question before educators is not how to outpuce technology, but how to prepare humanity to like wisely with a. If easily evaluable Al applications can effortlessly exaliable Al applications can effortlessly exaliable and resources, what then remains the purpose of a stituture of observation?

The emergence of Alchallenges every secumption about work and learning. For centuries, education focused on secumenting and transmitting information on teaching students when to know But is an era when information is

abundant and often machine-generated, that approach has lost its primacy. The era of rore knowledge accumulation of swallowing as much information as possible — is gradually coming to an end.

Therefore, with the advent of AI, the crisis we face is not a shortfall of information, but a deficiency of judgment. When a large language model (LLM) can produce an articulate analysis a few thousand words long in a motter of seconds, the human advantage lies not in.

replicating that skill, but in interrogating It—in asking whether the reasoning halds, whether the evidence is sound, and whether the conclusion is intuitively reatereable.

If LLMs can efficiently compile answers, the educator's objective should be to teach students how to

effectively frame and ask questions. This, and the ability to discern the signal from the noise—is the essence of critical thinking.

Raychaudhury

Hence, judgment and conscious docision making have become the new essential literacy of the Al era. Critical thinking involves the ability to intelligently frame questions, to identify meaning amid noise, and to recognise where human responsibility must intervene. Our graduates need to be equipped to conduct a forensic examination of information to evaluate the provenance of sources, and to devect systemic bias in algorithms and in the fundamental recomptions underpinning Al-generneed to collections.

As judgement and critical thinking become valuable skill sets for the Al-

future, this is precisely where a liberal arts education reclaims its central importance — as the essential, future-peoding curriculum for the age of intelligent machines. A true liberal arts education is a pedagogical architecture built on interdisciplinarity, spanning the humanities, social sciences, and the physical sciences. It allows the engineering student to study lumnamed Kant, the history major to learn astronomy, and the computer scientist to engage with others.

If you think of what Nalanda taught in the seventh-eighth centuries or even what Isaac Newton was trained at in Cambridge in the 17th century, there were no hard barriers between subjects. Everybody had to learn some basic subjects—astronomy, law, literature, relation, and

mathematics. Specialised subject categories in university curricula were essentially created much more recently, in the mid-19th century, when the purpose was to train people for certain specialised jobs.

In the Al age, we no longer need educational institutions that continue to teach in sitos. Education must instead conbrace an interdisciplinary approach, where ideas and insights flow freely across fields. Such an approach achieves two vital outcomes.

Firstly, this kind of education trains the mind to connect disparate domains. As Al mosters single domains a specific code base, subject domain or financial model), it is the human who remains uniquely capable of seeing the whole, of synthesising inputs from technology



The liberal arts curriculum is where ethical imagination is forged. It trains students to ask sharper, more meaningful questions.

and society, from people and markets to form holistic and innovative strategies. This is the difference between data processing and wisdom.

Second, it cultivates the capacity for "first principles thinking" — the ability to break down complex problems into fundamental concepts. When Al changes the tools, a liberal arts education ensures the human understands the bedrock principles that govern science, human nature, and political economy, ensuring they can adaptito any new technological paradigm.

By integrating these diverse ways of thinking, the liberal arts and interdisciplinary model nurtures learners who are technically proficient and intellectually balanced individuals, with deep knowledge, critical understanding, and sound judgment. This model of education is quite common amongst global universities but is still at a nascent stage in India As geopolitical dynamics shift, many Indian students are exploring opportunities for world class education in India. They will increasingly seek Indian universities that offer this interdisciplinary model of learning, which is both globally relevant and Al-ready.

Across Indian universities, students are increasingly using Al tools for their coursework, research and creative projects. This rapid adoption reflects both the promise and perifol Al in education.

While it can significantly enhance productivity and learning, it also raises pressing questions about authenticity, bias, and intellectual integrity. As students learn to use AI, they must also learn to think about AI—to understand its limitations, its ethical boundaries, and the human values that must guide its use. Without this grounding, we risk nurturing technical competence without moral consciousness.

The liberal arts curriculum - with its grounding in philosophy, history, and in scientific and quantitative thinking -- is. where ethical imagination is forged. It trains students to ask sharper, more meaningful questions rather than merely memorising answers. For instance, instead of simply learning how an algorithm works, a liberal artstrained student might asic "Whose data is being used to train this algorithm, and What buses might it curry? This kind of education teaches hunwity, a teaches the complexity of businin metication. and it teaches that great power demands great responsibility. It does not just train future employees, it trains entirers and ethical feaders who will deploy Alresponsibly.

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The Ostrich Effect cripples classroom progress



SAKSHI SETHI

THE PIONEER

In classrooms across the country-urban or rural, elite or modest - there exists a peculiar breed of educators who have perfected the art of selective blindness. These are the practitioners of what might be called the Ostrich Effect: the time - honoured skill of ignoring inconvenient truths while claiming to see everything else with hawk-like precision. They can catch a whispered secret from the last bench with uncanny accuracy, yet fail to notice that half the class has mentally checked out. They spot a passing chit instantly but seem blissfully unaware that their lesson plan, crafted in the pre-smartphone era, now holds the relevance of a typewriter at a coding boot camp.

The Ostrich Effect isn't just a teaching quirk - it's a full-

blown lifestyle choice. For some, every issue in the classroom is blamed on a supposed "decline in student discipline." When test results disappoint, the stars are at fault-Mercury's retrograde, Jupiter's misalignment, or, of course, the mythical "loss of moral values." Anything but the possibility that their own approach might need an update. Why explore creative methods or technology-enhanced learning when one can cling to the comforting familiarity of dictation drills and the age-old threat of "I'll call your parents"? The phenomenon shines brightest during classroom observations. Where reflective educators see feedback as a ladder for growth, the ostrich-style teacher perceives it as a personal attack. Suggest a more student-led activity, and the reaction is pure drama; "But this is how I've always taught!" they protest, mistaking longevity for excellence. It's the educational equivalent of bragging about 25 years of driving experience while routinely ignoring traffic lights, Experience, after all, means little without evolution.

Parent-teacher meetings provide yet another stage for this performance. These sessions-ideally moments for collaboration-often turn into exercises in intellectual symnastics. Faced with poor test scores or unfinished work, some teachers twist and turn until blame lands squarely on the parents. "Your child lacks discipline at home," they declare, conveniently forgetting their own ungraded assignments or absence of meaningful feedback. The student sits there silently, still unsure about integers, hoping someone notices. But that would mean lifting one's head out of the sand, and we can't have that, can we? Even professional development workshops-those rare chances to refresh and reimagine teaching are treated by some with theatrical disinterest. Arms crossed, faces blank, they endure new ideas as if attending a lecture on the history of paperclips. Student engagement strategies? Emotional intelligence? Digital tools? Surely, they must be fads. After all, if chalk-and-talk worked forty years ago, why change now?

Yet, beneath the stubbornness lies something human: comfort, Familiar methods feel safe. Reflection feels risky Acknowledging blind spots takes humility and humility is rarely comfortable. But education cannot thrive in comfort zones. Today's learners think, question, and process Information differently. They need classrooms that evolve as quickly as the world around them.

If teaching is truly about preparing students for the future, then teachers must model adaptability, curiosity, and courage. The classroom is not a museum of traditions but a living ecosystem. It needs gardeners, not ostriches-educators who nurture growth, tend to changing needs, and take responsibility for what they cultivate. And, unlike ostriches, gardeners keep their heads up.

The writer is an educator and councilion

The Institute for Defence Studies and Analyses at 60: The making of strategic thought



UTTAM KUMAR SINHA

The Dioneer

When India faced its defining strategic crisis in the early 1960s, it was compelled to rethink what security truly meant. The 1962 War with China exposed not only military shortfalls but also an absence of intellectual preparedness. The young republic, still discovering the grammar of power, realised that ideas could be as critical to defence as armies or arsenals. From that period of national introspection emerged an institution that would shape India's strategic imagination - the Institute for Defence Studies and Analyses, now the Manohar Parrikar IDSA. Its establishment in 1965 marked India's decision to think systematically about power in a turbulent world.

The Institute's origins lie in a series of encounters abroad. In May 1964, Defence Minister YB Chavan and Defence Secretary PVR Rao travelled to Washington,

DC, seeking ideas to modernise India's defence planning. There, they encountered the RAND Corporation — an institution that applied mathematical precision to questions of war and strategy. RAND's systemsanalysis methods, champloned by Robert McNamara's "whiz kid" Alain Enthoven. demonstrated how data and models could inform complex military decisions. Soon after, Enthoven was invited to New Delhi. where he proposed that India should establish its own RAND. Almost simultaneously, Alastair Buchan, the founding director of London's Institute for Strategic Studies (now IISS), arrived with a very different idea. Buchan viewed strategy as conversation - an exercise in context, interpretation, and policy dialogue rather than equations. Between these two approaches, India chose the latter Lacking the resources for RAND's computational rigour but drawn to the British tradition of policy debate, it adopted the HSS model. That decision gave the Institute its defining temperament — conceptually rich and intellectually vibrant, yet marked by a persistent absence of quantitative rigour that continues to shape its analyses even today.

The mid-1960s were a charged moment in Indian politics. With Nehru gone and Lal Bahadur Shastri navigating post war anxieties, national confidence required renewal. The 1965 War with Pakistan revived military

morale but also exposed the need for coherent strategic planning. It was in this environment — uncertain yet purposeful — that the idea of an autonomous research body took form: one that could advise, critique, and think alongside the state while remaining independent of it.

On November 11, 1965, IDSA was formally registered as a society, with Major General Som Dutt — fresh from a fellowship at the IISS and formerly Commandant of the Defence Services Staff College, Wellington — as its first Director. During his London tenure, he authored two notable Adelphi Papers: The Defence of India's Northern Borders and India and the Bomb. In the latter, written soon after China's detonation of three atomic devices in 1966, he argued that India might one day need its own nuclear capability to maintain Asia's strategic balance.

Within three years, the Institute launched its first publication — the IDSA Journal. In his foreword. Home Minister YB Chavan captured

> the spirit of a changing era: "In this nuclear age, traditional principles of military operations begin to be in doubt... previous tenets of national security have to be reexamined and fresh ones evolved."

It was a declaration of intellectual independence - questioning, analytical, and unafraid. The inaugural issue featured PVR Rao's essay on "National Defence Policy and the Higher Direction of War" and Lieutenant General GG Bewoor's study on "High Altitude Mountain Warfare," laying the groundwork for India's emerging defence discourse. Bewoor would later become the Army's eighth Chief of Staff.

Under K Subrahmanyam, IDSA began to forge a distinct intellectual identity within India's strategic community. A civil servant, Subrahmanyam returned in 1968 after a stint at the London School of Economics and a study tour of US institutions — joining first as Director (Programme) and soon after as Director.

At a time when open debate on national security was rare, he transformed IDSA into a forum of rigorous inquiry, insisting that it hold no official line but embrace diverse viewpoints. He often remarked that the institute's true strength lay in its ability to sustain disagreement with dignity.

That ethos was tested almost immediately. In 1968, as the world's major powers - the United States. Soviet Union, and United Kingdom — advanced the draft of the Nuclear Non-Proliferation Treaty (NPT), India faced a critical policy difemma. At IDSA, the debate was both intense and illuminating. Some argued that accession to the NPT would com-

promise India's sovereignty and erode its strategic autonomy, while others viewed participation as a constructive step towards reinforcing global norms of nuclear restraint. The Institute, true to its founding ethos, refrained from adopting an institutional position, allowing individual scholars to articulate their analyses independently. This pluralism of thought not only enriched the discourse but also underscored IDSA's enduring commitment to intellectual freedom and analytical integrity.

Among those who advanced this legacy were PR Chari and Jasjit Singh, who deepened IDSA's analytical influence through their scholarship and policy engagement. Later, K. Santhanam brought a markedly different sensibility to the Institute. A nuclear scientist by training, Santy, as he was fondly known, had been part of the quartet that orchestrated India's 1998 nuclear tests alongside R Chidambaram, Anil Kakodkar, and APJ Abdul Kalam. When he took over as Director from 2001 to 2004, he infused into IDSA a scientist's discipline - rooted in modelling, systems thinking, and quantitative analysis - dimensions the institute had long underplayed. If Subrahmanyam, the civil servant-scholar, had endowed IDSA with conceptual depth and a culture of debate, Santy sought to complement it with empirical precision. Both exemplified a shared conviction that India's strategic thought must remain informed, autonomous, and unswayed by political expediency.

This intellectual autonomy yielded a substantial corpus of scholarship. In 1977, Strategic Analysis was launched as a monthly journal, later transitioning into a peerreviewed quarterly in 2002 and, in partnership with Routledge, into a bi-monthly publication in 2007. Over the decades, it has become a principal forum for India's security discourse, publishing influential analyses on nuclear policy, regional strategy, intelligence reform, and military modernisation.

Sixty years on, the Institute's founding purpose endures. Yet, despite its considerable contributions, IDSA has been slower to integrate quantitative and interdisciplinary methodologies into its research framework. This methodological gap continues to constrain the infusion of empirical rigour and analytical precision into India's strategic studies—a limitation that future scholarship must consciously address.

Sustainable future through knowledge and innovation

The future will be shaped not just by what we know, but by how we choose to use that knowledge. Science gives us the tools; wisdom determines their purpose. When guided by ethics and inclusivity, science becomes a bridge between human aspiration and planetary well-being





SATENDRA SINGH

Science has always been the light that guides humankind through the darkness of the unknown, it is far more than a collection of data, laboratories, and formulae - it is a mindset, a way of looking at the world with curlosity, logic, and creativity. As the world celebrated 'World science pay for Peace and Development' on Nevember 30, 2025, under the theme "The Hole of Science in Sustainable Societies," we are reminded that science shapes not just our technologies but our daysiny - a destiny rooted in peace. equalty, and costalnability.

Science as the Foundation of Human Advancement

From the mament humans discovered flor to the decoding of the human genome, the story of chilination has been powered by science, it has been the engine behind overy leap in understanding and innovation, but at its core, science is not merely about lovesnon - it is about improving these and ensuring that progress does not rob future generations of their right to thrive.

The United Nations' Sustainable Development Goals (SDGs) provide a blueprint for global well-being, from eradicating powerfix to ensuring clean energy and comhating climate things. Every one of these 17 goals depends on science. Whether it is increasing agricultural productivity dyough bigrechnology, designing vaccines that tree milions, or creating cleaner energy systems, science provides the evidencebased tools needed to turn vision into reafity. A truly transferable society is one that litters to scientific insight and applies it writely - growing food without degrading the soil, building cides without challing the air, and meeting human needs without harming the planet.

Science as the Key to a Sustainable World

Science allows humanity to understand how the Earth's systems - air, water, forests, and biodiversity-interconnect. It gives us the means to predict weather, consume responders, and property for natural discentry.

India stands as a powerful example. The Indian Space Research Organization (ISBO)



THE THEME OF WORLD SCIENCE DAY FOR PEACE. AND

DEVELOPMENT 2025 - "THE ROLE OF SCIENCE IN SUSTAINABLE SOCIETIES' -

REMINDS US THAT THE FUTURE WILL BE SHAPED NOT

ONLY BY WHAT WE KNOW, BUT BY HOW WE CHOOSE TO USE

THAT RONGWLEDGE

The water is a become Salescore Observer of the Hamonol Institute of Display Newsperied

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has launched satellites that monitor monsount, ryclones, and forest fires, while the radio Metrorological Department (MD) has significantly improved forecasting accuracy-saving countless lives.

Agricultural science, too, has evolved through inneventions the distante resilient crops and efficient irrigation systems. Initiatives like NICTA (Maties at Innovations in Climate Resident Agriculture; by ICAR are helping millions of farmers adopt to extreme climate changes and secure food for future generations. Renewable energy offers another shining example. India's transformation from a foreli fueldesendent economy to a renewable energy leader-through solar, wind, and green hydrogen-demonstrates how science and golicy can together furn environmental challenges into

Blending Traditional Wisdom with Modern Science

apportunities.

The path to some sub-Big is not leasted to high-tech laborationes. It also runs through the fields, forests, and villages where pererations have practised indigenous

fraditional knowledge systems such as occupic furning, minwater hervesting, and herbal medicine-have long surrained consecutive in farmony with nature, connect through stience, they hadd trust-Today. Inodem science is rediscovering and trust builds peace.

and validating this wisdom. Farmers comprise had tunal practices with digital weather forecasts and satellite-based advisories, Avurvedo and modern biomediicine are being integrated to offer holisric health solutions. When traditional knowledge and regulary science work. Bood prediction drown in agriculture, and conether, they create occuraters that are both resilient and deeply rooted in culture.

Science and Climate Action: A Global Responsibility

Chromic change is the defining challenge phour time - and science is our most powortal ally. From uncovering the human causes of stabal waitining to developing instiguition and adaptation strategies, scimitth: research has guided international every citions. action. Global collaboration has strength-

satellite data, co-develop-early The Diencer marning systems, and EXCLESION enchange knewledge about disaster preparedness. This is

science diplomics - where cooperation replaces conflict and shared understanding becomes the foundation for peace. todia has been an active player in this movement, inmacives such as the International Solar Milance (ISA) and partnerships under SAMIC and BIMSTEC showrace hose scientific collaboration can build regional resilience. When regions-

Science as a Bridge for Peace and Diplomacy

"Science for Posco" is not just a dogare in is a philosophy. Scientific caltabaration transcends political boundaries because the problems humanity faces - climabil change, pandernics, natural divasions-do not recognitive banders.

The interpreparational Panel on Climate change (IPCC) stands as a symbol of thisconnection, thousands of scientists across the want countibote to as reports. enobiline leaders to make informed detitions for the plane (a collective good. The CDVID-10 pandernic further reminded the world that when scientists unite across continents, they can save lives. faster than any army or treaty.

Innovation, Industry, and the Path to Sustainability

Science fuels innovation-and innovation drives progress. Across India, strong extreinventury and start-ups are using science to active local problems; from recicling waste to developing renewable energy. splations and improving healthcare access, Programmes such as Stim-up India and Atal Innovation Mission have nurraned a generation of insovators who view sustainability not as a constraint but as a carefast for growth. The use of Al In-3D printing in affordable boasing are transforming communities. The future will belong to those who innovate responsibby - balancing economic ambition with emological care.

Science Education and Public Awareness

For science to gruly serve humanity, it must move beyond interatories and much

Science education must be strengthexact this effort. Nations share smed-particularly in rural and underserved areas - so that thidden gives up with earliesty and critical thinking. Promoting STEPs education racience, rechnology, engineering, and mathematics: and encouraging more girls and women to pursue schmittle coreers will unlock water reservoirs of talent.

Howaver, beyond education, public orgagement is essential, citizen science. popiech, environmental clubs, and science bars can bely communities link their everyday actions - such to water contenvarious and mounts suppregation-to the broader global goals of vantainability, A scientifically literate spokery makes better

decisions, demands accountability, and fosters an environment of subonal exablere-tolying.

Science in Policy and Governance

effective governance must rest up evidence. From urban development to spriculture, policymaiding informed be soentific data emurin efficiency and longnorm impact. India's national visit fations. - such as NITI Assoc and the NIMA already integrate research into galric polity. Geospatial data, ratellite imagery. and climate models are increasingly employed to design infrastructure that auticioanes future ritks. Strengthening the science-policy interface, where scien-Suts and policymatorn collaborate directly, is essential for creating adaptive and resilient systems of government.

The Ethical Compass of Sciencee

As we detablists the power of science, we must also recognise its ethical boundaries. the rapid advancement of artificial intelligence, genetic engineering, and nuclear research power profound reprofquestions.

Science must about serve homanity. never throaten it. A sustainable society advances knowledge with humbly and companies, using discovery as a motesto protect life, preserve dignity, and promote equality. Responsibility must puide every breakthrough.

A Common Vision for the Future

the theme of World Science bus for Person and Development 2025-17th Role (c) Schence in Tomernable Societies" reminds us that the future will be shaped not only by what we know, but by how we choose to use that knowledge.

Science provides as with the tooks windom derenment their purpose. When guided by othics and inclusively, science becomes a bridge between furtian aspinumber and planetary well-being.

is market as humility - for every answer leads to new questions, and everydiscovery to new responsibilities let us, therefore, commit to a culture than values inquiri, respects immunitors and ensures that science about serror practiand restainability.

As Albert Dastein Milely 1945, "Preporcurrent he kept by force; it can only be actioned by understanding," And understanding - the frue essence of minore remains humanity's goratest hope for a peacets and writingle forces. Paul &

The limits of international branch campuses

ast month, British Prime Minister Keir Starmer arrived in India with a planeload of vice chancellors. The Indian and U.K. governments announced that several U.K. universities plan to open branch campuses in India. Some of them have already received University Grants Commission (UGC) approval, while others are in the early stages of the application process. The fact that Mr. Starmer led this delegation can certainly speed up the regulatory approvals and establish these new campuses as legitimate ventures. However, it is worth analysing this initiative.

The need for branch campuses The recent changes in the India-U.K. educational partnership are tied to the broader India-U.K. Vision 2035 and the recently signed India-U.K. Comprehensive Economic and Trade Agreement. Also, British higher education is undergoing an unprecedented financial crisis, created both by inadequate support from the Starmer government and by a decline in the number of international students going to the U.K. and paying high fees. It is likely that some British universities are looking to a move to India as a way of earning income from Indians without importing students. But will Indians want to study at a branch campus as a substitute for the "real thing"? Will the branches apply the same standards both for student performance and faculty quality in India as they do on their home campuses?

Branch campuses do not always succeed. And when they fail, students are often left without alternatives. In recent years, several international branch campuses faced significant setbacks. Texas A&M University closed its Qatar campus after two decades of operation. In Europe, the University of Kent's Brussels campus was shut down due to financial pressures. These developments reveal a growing



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The ultimate value of foreign branch campuses will depend less on their brand and more on their ability to offer something not readily available in India

fragility in the operation of international branch campuses where global uncertainties and local market realities challenge the sustainability of such ventures. This risk should be an eye-opener for India, where clear contingency frameworks are yet to be outlined. One of the major gaps in current UGC regulations is the lack of a clear safety net for students, especially if a branch campus were to suddenly shut down.

Just what is a branch campus? Is it a full academic institution transplanted from one country to another, with a campus, a variety of offerings, perhaps some focus on research, facilities for student services, and the like? Or is it a floor of an office complex offering a few specialised degree programmes deemed to be attractive to target audiences and taught by local faculty or professors from the home university who fly in for a few weeks or perhaps teach only on Zoom? Globally, there seem to be many more of the latter.

Experts point out that building a "real" branch is expensive and time consuming. Most "real" branch campuses around the world have been financed by governments or in some cases by property developers. For example, the campus of New York University in Abu Dhabi was built using funds from the UAE. Foreign universities are seldom willing to invest in actually building overseas campuses. So, it is worth asking whether the British universities will be making significant investments to build their branches in India or whether they simply intend to leverage local partnerships and facilities.

There is also the question of teaching. Will these branches provide full-time faculty from their home campuses? Experience shows that this is seldom the case. As a result, these campuses have to rely primarily on local faculty. If that is the case, what then will distinguish these branch campuses from India's emerging elite and semi-elite universities?

Also, will the branches have a research mission? The vast majority of branch campuses worldwide are only teaching outposts, as building research capacity is expensive. Indeed, research has been a point of contention between the Chinese government and a number of the branch campuses in China — including British branches of Nottingham in Ningbo and Liverpool in Suzhou.

In India, the question is whether the branch campuses will be allowed to engage with the national research ecosystem by participating in the schemes of the Indian Council of Social Science Research or Department of Science and Technology or remain isolated teaching units. Their contribution to India's research output and innovation metrics would be meaningful only if they are incentivised to undertake research collaborations and capacity-building.

Balancing ambition and reality The ultimate value of foreign branch campuses will depend less on their brand and more on their ability to offer something not readily available in India. If handled well, branch campuses can provide access for students as India expands higher education enrolments. They can provide useful examples of innovative government and management practices that may be relevant for India's often sclerotic higher education system. However, the absence of clear frameworks on accreditation and quality assurance leaves uncertainty about how such collaborations will align with national standards and protect student interests. The question of fee structures adds another layer of complexity because India's many semi-elite and elite private universities aiready offer globally benchmarked programmes with international partnerships. As India approaches an era of branch campuses, there are significant possibilities, but cavear emptor. 115

On Donald Trump's compact for higher education

Forced to choose

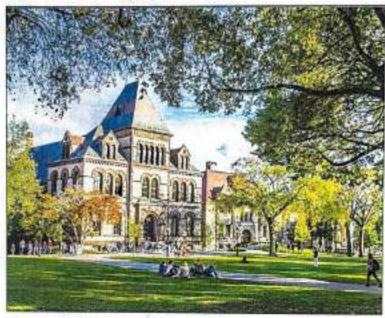
SAIKAT MAJUMDAR

onald Trump's compact for higher education signals a wholly new way in which universities can be yoked to the ideology of State administration. This new model of administrative authoritarianism is likely to have a large impact worldwide, including on the higher education landscape in India where political intervention tends to happen through direct policy and administrative decisions by the State. Trump's compact, on the other hand, is offered as a choice to US univerto those "Institutions that want to quickly return to the pursuit of Truth and Achievement". Institutions which accept the compact will gain access to significant federal funds. Their adherence to the terms of the contract will be reviewed annually by an external agency, and non-compliance will be penalised by the return of any funds obtained.

An electoral base sceptical of scientific research, including that on environmental degradation and economic realities, now faces a promise of truth and achievement untarnished by idealogy. Such is the nature of the post-truth world's return to the pursuit of Truth. Universities entering the compact will have to institute a range of policy reforms, including identity-blind student admission and financial support as well as faculty and staff appointments, an open climate in civil discourse on campus, institutional neutrality vis-à-vis socio-political incidents, a five-year tuition freeze for American students with particular preference for students pursuing the hard sciences, clear and neutral standards for grading, and the reduction of foreign involvement and recruitment of international students.

Nine universities made up the cohort to whom the compact was offered on October 1 - Brown, Dartmouth, MIT, the universities of Arizona, Pennsylvania, Southern California, Texas at Austin, Virginia, and Vanderbilt. Except Vanderbilt and UT Austin, which have offered ambiguous responses, all the others have rejected the compact. The federal administration has now offered the compact to institutions nationwide. On October 27, New College of Florida became the first institution to offer to accept the compact.

The compact is a departure from Trump's bitter and intense face-offs over the issue of anti-Semitism on university campuses. On a superficial level, the compact offers a degree of fairness and support for mainstream American values and interests. But there is no doubt about which America it seeks to support; suppressed, minoritised, and immigrant interests have no place here. The open marketplace of ideas implies space for conservative voices; non-identarian admission and appointment signal the end of institutional support for minorities.



Brown University: principled stance

Foreign students and staff are no longer

It's a fairness that appeals to Trump's support base. It can even win him some new ones. A five-year tuition freeze for American students may resonate with a population that has become exhausted with astronomical sticker prices on college degrees and is increasingly unconvinced about their worth. A significant part of the mainstream (worldwide) has increasingly become disenchanted, indeed antagonised, by what they see as the domination of Left-liberal views on campus. It explains why the outrage against the bullying of universities has primarily been limited to students and faculty and has not drawn significant support beyond the intelligents a. The mainstream may very well see the idea of a fair marketplace as a balance-setter, even though there is little doubt that this call for fairness actually aims to swing the ideological pendulum to the other end.

The increasing costs of higher education are weakening domestic popular political support for higher education, the former Canadian Opposition leader, Michael Ignatieff, recently said at the Times Higher Education's Going Global Conference in Toronto. "It becomes easier and easier for populist politicians to attack higher education as a kind of elite luxury that the taxpay-er pays for." Ignatieff knows the bitter reality personally; he was the rector of Central European University from 2016 to 2021, an institution that, for the most part, was forced to leave Hungary for Austria by the Hungarian prime minister, Viktor Orbán, the pioneer of illiberal democracy in Europe, sometimes called Trump before Trump'. Ignatieff points out Orbán was "the master" who had learned before anyone else "that controlling the universities that recruit and train elites means they can eventually control the political system."

I felt the close breath of this ideo-

logical struggle between the right-wing Hungarian government and a weakened Central European University this summer during my stint as a Fellow at the Institute of Advanced Study in the eviscerated CEU campus in Budapest, Orbán has exploited the legal vulnerability of an internationally chartered university to force out of Hungary the institution supported by his arch-enemy, the Hungarian-Jewish philan-thropist, George Soros. While ideology continues to fuel the hostility between universities and populist dictatorships worldwide, the latter's preferred modes of interference and domination remain legalistic and bureaucratic. We see this with the current regime in India where public institutions are structurally dependent on state or Central administrations, not only for funds but also for staff appointments, including the constitutionally-mandated gubernatorial appointment of vice-chancellors and faculty recruitment through networks of political connection and

party loyalty. Trump's compact is very different; it is in clever but superficial accordance with the character of American capitalism. It makes its appearance as a choice offered to universities that becomes for them a favourable financial transaction. But as a national measure that is now open to institutions across 50 states, it is also what Ignatieff calls "a 'renationalization' of one of the most outward-looking educational systems in the world." For a political party that has always pushed for less, not more, government, this striking opportunism seeks to bring what is possibly the greatest space for dissent, free thought, diversity and internationalism under administrative and ideological control. But right now, it is the carrot that looms large, not the stick. Choice, money, and transaction aren't these the fundamental markers of the free market? But by what sleight-ofhand does the carrot melt into the stick?

Salkat Majumdar is Professor of English and Creative Writing at Ashoka University and writes here in his personal capacity TRIBUNE, (P-6), 13 NOVEMBER 2025

HP's joblessness

It reflects fault lines of the state's economy

IMACHAL Pradesh, often praised for its high literacy and human development indices, now faces a grim paradox — one in every three young persons is unemployed. The latest Periodic Labour Force Survey (PLFS) puts the youth unemployment rate (ages 15–29) at a staggering 33.9 per cent, up from 29.6 per cent in the April–June 2025 quarter. In contrast, Punjab's rate eased to 18.9 per cent, Haryana's dipped slightly to 15.4 per cent, while the all-India average stood at 14.8 per cent.

The hill state's joblessness is not new, but its scale has become alarming. Behind the bleak figures lie structural imbalances: a limited industrial base, seasonal tourism and a disproportionate dependence on agriculture and government employment. The state's educated youth, many of them degree-holders, shun low-paying private sector work and await elusive government vacancies. As a result, thousands of qualified applicants compete for a handful of posts, while others migrate in search of work. The gender gap is equally stark. Unemployment among educated women remains far higher than among men, reflecting both social norms and the lack of suitable job opportunities. In rural areas too, mechanisation and shrinking farm sizes have reduced informal work options, swelling the ranks of the jobless.

The state government cannot afford to remain complacent. It must move beyond recruitment promises and chart a comprehensive employment strategy. Expanding small-scale manufacturing, agri-processing and eco-tourism can help absorb educated youth. Equally crucial is aligning skill training with market demand, promoting start-ups and incentivising private sector participation in hill-friendly industries such as renewable energy and food-processing. Himachal's high literacy is an asset, but without jobs, it risks becoming a source of frustration and migration. The growing army of jobless youth should serve as a warning. Development must not only educate but also employ.

TRIBUNE, (P-7), 13 NOVEMBER 2025

Democracy vs control: The tug of war in PU



FOND THAM EXCIDENT, ARTE FACULTY, PU. & EXPRESIDENT, FUTA

long-drawn adiation in PU. which altrasted a hore PERFORME from political preties, kings and monthly uniona, students' organisations and civil society, had begun as a students' protest. against an affidavit to be submitted by the students to the effect that they would not take part in any probed in the univenity operates.

In the meantime, the Central epremment lossed a notification on October 25 overhauling the 75-year-old democratically elected representative governing structure of Parjab University (PC), known as the Secute (asprerse legislative) and the Syndicate lossoutive body). However, the longassisted but complicated issueof Senate reforms, which goes hack to the tenure of Vice-Changeller Prof MM Puri. remains inconclusive.

Since then, though the reform issue had become dorment for a long time, it picked up memerium during the turbulent tenure of the vicechancellurship of Prof Aren K Grover, who preferred to conduct the proceedings of the Senate independent of factional politics.

It was also during his terrore that a National Assessment and Appreditation Council (NAAC) committee (March 2015) underlined the need for restructuring the PU Sensis and the procedure for the appointment of deans.

At the same time, on October 8.2015 the then mendent of the Panials University Teachers Association (PUTA), who was also a normosted member of the Senate, submitted a proposof for povernance retirents. They were put up at the Syndicate meeting, leading to the formation of a 15-member Goverranca Raforma Consolitar KTRC on November 28, 2015.

Chaired by a former chief. station of a high court, Roccommended the constitution of fuse sub-constratues to look into reforms, comprising amendments in the PU Act. changes in PU statutes/mgs/ations and improvements brokdemtion within the regulations. Their reports were put before the GRC and several crecial instant and forwarded to the Syndicate and Senate membus. They were also submitted. to the high court in the PIL. avoiding consideration.

The Senate reforms stem. from the modification needed in the PU Act (1947) that was carved out of the dated Indian. Universities Act (1906), which was designed to fulfil the goverrang requirements of the then evolving publicly funded university that had come into existence in 1982.

The goddute constituency, the dauge of allotment of boultion in four disciplines to early on Senator and the concept of added-exerobers to each family



NO POINT The most quantities remains unknowned and vorted viewpoints in PU's governance reforms, m.s.

- this was the required arrangement at that time in the absence of provision of the uniwently's own inhouse faculty.

According to such an arrangement, any two Senate members in a given faculty could initi funds to bring in an 'added member from among the affiliated college lectures: and other professionals in their respective families.

Il was after the Parettee. when the university was rulenated in east Punish, that profeature and heads of university department ware allowed to be included in the faculties of their respective domains as 'en-officio members under the PUAct(1997) The faculty constituency in the Serute conprised six elected Senators.

Despite the Senate initiatives that began in 2015. including on affidevit filed by the Vice-Chancellor on govemance reforms and financial concerns of PU in a PIL. initiated suo moto by the Chief Justice of Punjab and

Those arguing for status quo fail to justify the ourmoded stance of the pristing PU calendar in the much-changed scenario of contemporary times. Harvers High Court in October 2000, two terms of the PU Senate (2016-20 and 2020-04) have been completed without any action to that effect.

It is pertinent to recall the independent initiative of the Chancellas PU, who deputed his emissary to Chandigath to cornult with all stakeholders. before the initiation of the elections to the Renate of 2000). 24. The term of the last Secute ended on October 31, 1824 without the approval of the mandatory election schadule for the next Senate of 2005-08. probably given the sub-judice status of the election process. for the greatous Senate.

Mercover since the cost of the last VC, no Senate meeting has been held. It has led to a legitimate democratic governames vocasin in PU's administrative structure, giving rise to various kinds of comon about diamenting PUs heritage governmente bodies and replaceur them with a nominated, contrabaci

structure, as existing in other state and Central universities.

It is also being discussed across varied stakeholders that PU evolved in unique electrostances during the colonial regime as the only Purish beritage university which was established with publicly collected funds after the coming up of the three foundational universities of Calcutto, Modean and Bornhoy. And it was for this reason that its uniqueness needed to be preserved. The Senate and Sendicate constitute the encentre of PU's unique academic heritage status.

It was this status of PIC that was highlighted by yourse opposing the Genetic notification issued on October 28. It sent shockwaves through PU stakeholder citries, revertiersting from Chandigarh to vii-

lages in the interior of Pursish. What gave further sour to the spell of apposition was the delicale time of the announcement. of the notification (November 1. 2000. It corrected with the reorganisation of the state (November 1, 1906) as also the ongoing high-profile electioncontra uncommittelle Terri Tione Assembly seat, which is being projected as an emerging trend. setting the tone for the 2027 Purush Assembly elections and 2029 partiamentary elections.

Vet another factor that gave impelus to the opposition. against the notification was the geographical placement of PU in Chandagath, the canitial of two states with its union. territory status. Thus, any issue related with the groupnance of the univenity gets immediately linked with the

bear political dynamics of the state, so much so that any attempt to dilute the university's democratic character is seen as weakening Purusb's claim over Chandistarit.

What lost to the exportation of the groblem was the Centre first motters on held the notificution, with a rider about the ireplementation, and later withdrawing it on Nevember 7. 2005. Though student oncoresations have welcomed the decision, they refuse to wind up their struggle until the schadule for the Senate vicetion is announced. It is alleged that the election has already been deliberately delimed for a war by the Centre

All said and done, the most mustion remains unanovered amid the varied view points on PUs governance reforms. Those arguing for status due cities the PUTs heritage character, fail to purefy the outmoded stance of the torictine PU calendar in the much-changed seemann of contemporary times, in comparison to those prevailing at the time the Indian Universities Act (1984) and PU Act (1947) came up. And those advocating major modifications to the PU Act 1947 have balled to partity the dilution of the democratic character of the Senate and Syndicate

PU should be saved from both extremuse one, the factionalizen emunutana from the old set up to the disadvantage of the analysis domain and two. the bureaucratic and beaumonute control of fise remoulded governance body as unfolded in the notification Out was later rescinded. To Ja-

OTHER COMECUOUS

As shutdown ends, Trump U-turn on H-1B, edu visas?

he end of the longest-ever government shutdown in the United States marks a moment of relief for millions of Americans, especially those working for the government. The deal allows the US federal government to borrow about \$1.8 trillion a year to its current \$38-trillion debt.

While Democrats appear to have conceded defeat by agreeing to back the funding bill, surveys showed that 50 per cent of Americans blamed Republicans for

the shutdown, while 47 per cent blamed Democrats.

However, the 43-day shutdown of the administration does not reflect well on the world's superpower — something that rarely happens in other countries. Funding is the most important power vested in the legislature to control the President. The shutdown is not good for the US, either, especially when it has to compete with a tough competitor like China. The Trump administration recently had to settle for a bad compromise with China after it realised that the economic costs are more than anticipated.

After ending the feud with China, Mr Trump appears to be keen on rebuilding America's strengths to play long haul with Beijing. As part of this, Mr Trump appears to be keen on dialing back his restrictive policies on immigration.

In an interview with an American news channel, Mr Trump bluntly told the

Unlike other leaders, Mr Trump prefers to adopt a transactional approach to resolving the problems at hand, while announcing measures that cheer his support base hastily

interviewer that people cannot be taken off an unemployment line and put onto a factory floor to make missiles — an accurate description of the limitations of the native US talent pool.

Unlike other leaders in the United States, Mr Trump prefers to adopt a transactional approach to resolving the problems at hand. As such, he announces measures that cheer his support base; and when things don't work, he reverts to old methods — earning him the unflattering epithet "TACO", or "Trump Always Chickens Out".

While Mr Trump faced the ire of his own party leaders for softening his stance on H-1B visas, treasury secretary Scott Bessant — defending Mr Trump's comments — said the US would like for-

eign workers to stay in America for seven or eight years to train native workers and then return home.

Mr Bessant's comments further hint at the Trump administration's determination to scale back its restrictions on temporary work visas and foreign student visas. Mr Trump's remarks in the interview appear to be premeditated to revive discussion on the shortage of talent in the US ahead of easing those restrictions.

Apart from the economic repercussions, the recent elections in a few American states — where the Republicans suffered reversals — might have made Mr Trump realise the diminishing marginal utility of his tough actions.

The electoral reversals and his dramatic compromise with China appear to have made Mr Trump and his team understand that emotions do not help them make good policy. The Trump administration may, therefore, pursue a graded approach to immigration by selectively allowing highly talented foreigners to come in while keeping its immigration gates closed to all and sundry. For Indians who are keen on US visas, the bar could remain high; so work harder for success.

Giving children the right to be heard

DR NAMRATA GOGOI

ach year, the month of November brings two occasions that centre on the same idea but in different ways – November 14, India's Children's Day, which celebrates Pandit Jawaharlal Nehru's affection for children, and November 20, World Children's Day, observed globally by UNICEF. The theme for this year's World Children's Day, 'My Day, My Rights,' reminds us that childhood is not only to be cherished but also to be respected. It calls for listening to children – not merely celebrating them once a year, but recognising their right to feel, to question, and to be heard.

Yet, behind the cheerful programmes and colourful posts lies a quiet crisis. In 2022, India recorded over 13,000 student suicides – the highest in ten years. Just this month, in an unfortunate incident, a nine-year-old girl in Jaipur jumped from her school's fourth floor and died instantly. The tragedy leaves us asking the same painful question: What drives a child to such despair? There are many such stories across the country, each pointing to the same truth – we are missing something vital in the way we raise, teach, and connect with our children.

Children today live in contradictions. They have more comfort, technology, and opportunity than ever, yet many feel lonelier than before. On one hand, there are children growing up in the 'Six-Pocket Syndrome' – surrounded by doting adults who give everything except time and boundaries. On the other, there are children raised largely by caretakers while parents juggle work and responsibilities. Daniel Goleman once described the family as an "emotional crucible" – the place where empathy, trust, and self-control are first learned. When that crucible is filled with things but devoid of presence, emotional growth weakens. Surround-

True child empowerment begins with listening, empathy, and emotional learning that nurture mental wellbeing beyond academics or celebration.



ed by people but starved of attention, many children turn to screens and social media for the comfort and connection they can't find elsewhere.

The issue, however, is not only in what children experience but in what we neglect to teach them. Schools teach them how to calculate, memorise, and compete, but rarely how to reflect, empathise, or communicate. Goleman's framework for Emotional Intelligence (EQ) identifies four core areas—self-awareness, self-management, social awareness, and relationship management. When these are missing, we see familiar patterns: anxiety mistaken for discipline, anger misread as confidence, and isolation mistaken for calm.

This is where Social-Emotional Learning (SEL) can help. It doesn't mean another subject in the timetable, SEL, when woven into everyday teaching, helps children recognise emotions, manage them, and relate better to others – preparing them not only for exams but for life itself. It means building small

habits – checking in with how children feel, helping them name emotions, encouraging them to resolve conflicts through words, not anger, and much more. A few minutes a day spent listening or reflecting can make school a safer, kinder space. These are not 'soft' skills; they are life skills that protect a child's mental health long before therapy is ever needed.

Communication gives these emotional skills their voice. Without emotional understanding, words become hollow; without expression, emotions remain trapped. Communication isn't about speaking well—it's about connecting. When a child says, "I'm scared," and we reply, "Tell me what makes you feel that way," instead of "Don't cry, be brave" we teach them that their feelings are valid. When we listen without judging or rushing to fix, we show them that emotions are not weaknesses.

Many of us - parents, teachers, and adults alike - are quick to advise when what a child really needs is for us to listen. Yet, the best way to teach emotional balance is to model it — admitting mistakes, apologising when wrong, and staying composed in frustration. Children learn emotional behaviour not from our words, but from our reactions.

Technology, meanwhile, adds another layer of strain. Children text faster than they talk, replacing emotion with emojis. Their friendships unfold on screens, yet they struggle with real-life conversation. The illusion of being connected conceals deep isolation. The answer isn't to remove technology but to restore conversation—to bring back small, real moments of attention: family meals without screens, bedtime chats, a few minutes of sharing about the day.

Who, then, is responsible for this growing emotional deficit – parents, teachers, society, or the children themselves? The truth is that responsibility is shared. The solution, too, must be shared: families that listen before they judge, schools that value empathy alongside excellence, and a society that measures success not only in grades but in grounded, resilient minds.

The UNICEF theme 'My Day, My Rights' reminds us that rights begin where understanding begins. The right to education means little if a child is too anxious to ask 2 question; the right to protection means little if they cannot say they feel unsafe. Empowering children to express themselves clearly and kindly – and teaching adults to listen with patience – is the surest way to honour those rights.

This Children's Day and World Children's Day, may we celebrate not with performances or prizes, but with presence and empathy. Because before a child learns to dream or achieve, they must first learn – and be allowed – to be heard.

(The author is an educator and certified Emotional Intelligence coach)

Teach Kids Gender Empathy in Schools

Earlier this month, during a hearing on the reported misuse of Protection of Children from Sexual Offences (Pocso) Act, advocate Sandeep Deshmukh urged the Supreme Court to make it mandatory for all schools — government-aided or otherwise — to educate students on the 'folly and drastic consequences' of rape. This, Deshmukh elaborated, should mean children in schools being taught that violating another's privacy and dignity is not only wrong but is also a crime, and that ignorance of the law is no excuse. Driving home the point, especially to boys, that sexually abusing or assaulting someone is a serious crime is a workable, necessary idea. Driving out socially tolerated misogyny is another challenge that

schools must take up.

Along with such awareness, schoolchildren — boys and girls — should be taught gender equality and sensitivity. Impressionable minds before reaching, or on the brink of, puberty have a far better chance of imbibing these values than their older counterparts. Also, with fami-

lies susceptible to patriarchal moulding, biases, stereotypes and condoning, it is the school where planting these values has the best chance of taking root for future adults.

India recorded 29,670 rapes in 2023 — roughly 81 a day. Alarmingly, but perhaps unsurprisingly, majority of perpetrators are known to survivors: family, friends and neighbours. Schools, government and private, must institutionalise this education, not as a one-off 'special class' or workshop, but as a subject on the lines of civics or moral science woven into the primary school curriculum. More than throwing numbers at them and teaching what is lawful and unlawful, it's necessary to inculcate in young Indians gender empathy. Let schools embrace this task in earnest.

HINDUSTAN TIMES (P-18), 14 NOVEMBER 2025

Trump rethinks HIB visa stance

The welcome shift benefits India, a major supply line of skilled workers into the US

again, as US President Donald Trump dialled down the emphasis on the immigration of skilled workers into the US. Less than two months after he raised H-1B visa fees to a prohibitive \$100,000—this amount is higher than the median wage for entry-level H-1B employees—Trump has accepted that the US cannot do without skilled migrants from other countries. To be sure, Trump's initial H-1B bombshell was diluted much earlier when his administration clarified that those shifting their US visa status to H-1B—this would include university students etc. in the US—need not pay the high fees.

Trump's change of stance is perfectly rational, The US and its blue-collar workforce are right about America's decline as a manufacturing power, a position which they first ceded to the Japanese, and eventually to the Chinese. But the US as a whole has undergone anything but economic decline, not just in the realm of finance but also, cutting-edge science and technology. A lot of this success has come from the work done by skilled migrants of other nationalities in the US who have either studied in America or migrated there to pursue better employment opportunities. Asia, primarily China and India, but also other smaller countries, has been the main supply line of skilled workers in the US, as was reported in these pages a couple of days ago.

Rationality aside, Trump's about-turn from his hawkish stance on skilled immigrants and the regulations concerning them also amounts to a partisan act by him, as far as the ideological divide between his supporters in the Make America Great Again (MAGA) and big business camps is concerned. The former has been critical of the ecosystem that makes the US an attractive place for skilled migrants, while the latter has been consistently underlining their centrality to the fortunes of US business and its overall economic and technological prowess.

For a country like India, which has been the biggest beneficiary of the H-IB visa programme by a distance and is also one of the biggest sources of international students in the US, all this is good news. This, however, should not lead to complacency but yet another lesson that there is no other option but a continuous, patient and nimble engagement with Trump's America.

Academic autonomy under siege

Enforcing a one-size-fits-all governance model can hit India's standing in science & technology



DINESH C SHARMA SCIENCE COMMENTATOR

IZARRE and somewhat amusing developments are taking place in the world of science and technology in India. A national science academy, which had famously refused to make APJ Abdul Kalam its Fellow, bestowed upon industrialist Mukesh Ambani its Fellowship - an honour till now reserved only for scientists having stellar academic and research achievements. A top technological institution carried out 'artificial rain' supposedly to address poor air quality in Delhi, knowing fully well that there was no scientific basis for doing so. It did so just to fulfil the wishes of the state government.

A Union minister dishonoured Vikram Sarabhai, visionary founder of India's space programme, at a public forum by saying that Sarabhai used to carry rockets on a bicycle as we had no resources. He apparently did this to justify his absurd claim that Indian achievements in space were all due to resources made available 2014 onwards by the Narendra Modi government.

These recent developments may seem isolated and unconnected, but they are not. They are part of a long chain in recent years during which our scientific, research and academic institutions have been losing their autonomy one by one. Some have been forced to fall in line, while others have decided to surrender voluntarily.

A fledgling Indian Space Research Organisation (ISRO) had the courage to turn down a request from Prime Minister Indian Gandhi in 1980 to send an Indian astronaut on a Sovjet mission. It was not an act of defi-



ADMINISTRATIVE CONTROL: The Indian Statistical Institute, established by physicist-turned-statistician PC Mahalanobis nearly a century ago, is on the ractor of the Central government. FLE PHOTO

ance but a polite refusal based on sound arguments (ISRO was then busy making its first satellites and rockets and had no human flight programme on its agenda), which the PM was graceful enough to accept. She then assigned the task to the Indian Air Force, resulting in Rakesh Sharma's space journey in 1984. ISRO is still autonomous on paper, but it has no courage left to correct the minister when he disrespects its founder publicly.

Similar is the case of the Indian National Science Academy (INSA). Though it has been supported financially by the Centre for decades, it was not the handmaiden of the government till recently. In 2010, at the height of the controversy over genetically modified (GM) foods, the INSA. joined two other science academies in emphasising that GM food crops should be thoroughly tested for safety to human health and the environment before any commercial release. In January 2018, three academies came together to rubbish a statement made by a Central minister questioning Charles Darwin's theory of evolution and suggesting its removal from educational curricula. In both instances, science academies took principled positions, rightfully asserting

Academic freedom is critical to let scholars, teachers and students think, question and express ideas without fear of censorship or retribution.

their freedom and autonomy.

In the present case of electing new Fellows, if the science academy felt it prudent to involve non-scientists like Ambani and other industrialists in pursuance of its charter, it could have very well done so by designing appropriate collaborative programmes and platforms. No science academy worth its name would make someone its Pellow without requisite credentials. Ambani is now a member of the hallowed group that includes scientific luminaries like Satyen Bose, Meghnad Saha, Homi Jehangir Bhabha and Shanti Swarup Bhatnagar.

The Royal Society, London considered the gold standard of science academies — enrols people who are not professional scientists, such as researchers from industry, as its Fellows, provided they have made a "substantial contribution to the improvement of natural knowledge." The INSA's decision to make Ambaniand others its Fellows sets a dangerous precedent, besides being disheartening for many midcareer scientists looking to become its Fellows someday.

One such scientist with globally recognised contribution to his credit declared on social media—
"Alast I have neither the bank balance nor academic merit to be an INSA Fellow." The comment reflects the general mood, though most in the scientific community have preferred to keep mum.

A prominent institution on the radar of the Central government. is the Kolkata-headquartered Indian Statistical Institute (ISI). The government has proposed to bring in the Indian Statistical Institute Bill 2025 that seeks to establish its direct administrative control over this iconic body established by physicist-turnedstatistician Prasanta Chandra Mahalanobis nearly a century ago. Globally renowned for work in statistics, mathematics and applied sciences, the ISI is a unique self-governing scientific institution registered

as a non-profit society.

The proposed law seeks to dissolve the existing ISI Society and replace it with a Centrally-contrulled Board of Governance. The President, Director and members of the Academic Council will no longer be elected but appointed by the Central government. The Bill also stipulates that the new body will take over all movable and immovable properties of the ISI.

It is clearly an assault on academic freedom, democratic structure and institutional autonomy. This is similar to what the Centre has attempted to do with the goveming structure of Panjab University, or what US President Donald Trump is trying to do with top universities in his country.

Autonomy is not an esoteric idea it allows faculty committees to debate and refine the curriculum based on wide-ranging inputs and experience. The process is the key to achieving academic excellence and keeping academic programmes relevant to current scientific challenges. Replacing it with bureaucratic oversight from Delhi would undermine both the quality and independence of the curriculum. The 1959 Act that governs the ISI currently allows the institute to grant degrees independent of the University Grants Commission (UGC), The draft Bill is silent on this matter, implying that the ISI will be placed under the UGC and thus run like a regular university, which it is not.

Academic freedom is critical to let scholars, teachers and students think, question and express ideas without fear of censorship or retribution. It encourages innovation and critical thirdcing, while protecting the integrity of research and teaching. Institutional autonomy is necessary for protection from political, bureaucratic or corporate interference, and to promote excellence and diversity. Enforcing a 'one-size-fits-all' governance model for research and academic institutions, and allowing political interference from Delhi in their running, is going to deeply damage India's standing deepty manage in science and technology.

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India should invest in its youngest learners



AZEEZ GUPTA COFOLAGER, ROCKETILLERANG

S much as 18% of brain development tuppers before the age of six. A much to Vellore has shown a 5-Report IQ ascresse among preiction are disting who underwant stimulation and learning through structured early childhood development (ECD) programmes compared with those who did not Global research shows that malkens of reural consections form every second at this age and that ECD have 10-20% impact on high-school. completion most and lifetime morne, which as only it is often elasted as the intervention. with the highest social notum on investment.

"Ret in India ECD/or children -- from whenthey are born till they int the age of six and join primary school -- has been overlacited. We spend only about 10% on a five-year old company to what we invest in a stery careful. Society came about high-school completion and university, but not about the early years that are the emplect to address and most important for the foture. Why is the investment low and how do see ensure that exceptidren merice the best ECD*

If we want a future-ready workforce it begins with children who can think critically. play creatively and learn josfully. And if we want to deliver impact at scale, the government rivust playes central role because scale in brdis means reaching 14 cross children under the age of six, of whom 8.6 cross attendanguments centres. While paperthood is deeply personal, it's also central to Indianeconomic and human capital future.

What can state; and caregivers doto-mause that all entition receive the care and othertion they deserve?

Create moureness and aspiration: The governments School Chalein Hum's cheme in the early 2000s beload universalise school ergolinent, but dose to me tronchildren or still not provided at the pre-school stage. A martineign in received to some realise arriganess. di and pre-school continuent, draw-up attendonor and ensure that society regimes the importance of the curiy years towards landsing IQ, social shiftly and self-control. States should put such efforts in mission mode. overseen by CMOs.

Ispect in infrastructure and material: Children and up going to private achools because they seem more 'formul'. While mother torque must remain the first lan-Diago of instruction and play-based, activitybased learning the pedagogical mode, states must provide uniforms, pluy facilities, "goaduntion communities' and learning materialsstorybesite, workhooles, building blocks, clay, balls, the housels, indigenous tees.

This will improve both the perception and quality of learning. Harvana has started the CSI Model Playschool instattee through which it has upgraded 6,000 angerwadis and seen increased enrolment and parental satisfaction. Purple has launched three years of pre-primary in schools, while also strengthuning angunwadis, and is seeing the results through a shift-back of children from lowquality private schools to government ones. Strengthen community engagement

States can leverage community workers and low-tech access to strengthen community engagement, encuring every child has meaningful, locally relevant runtent that engages him/her and empowers parents to support their children's learning more effectively. Chambrach ord Haryana have leveraged **Underwadi** parent-teacher meetings and used WhatsAppto priends personalised learning. health and restrictional content to parents and wen big gains in the

number of children who are reaching their required developmental milestones.

Stores will have to increase their annual uraparvendi and pre-school budgets by about 30% tomple these steps a reality. It translates to around Rs. 200-500 cross annually. It is a substantial outby, but much less what is being spent on other souses with a least furreaching impact. The states could choose to invest in uninersal dayours by endending the duration of the argametal from four hours to 7-8 hours, which would allow more mothers towork. Telangum has already done this with good results.

With the right hole strong periodal involvement, and state requestly, we can build believe brillant fature from the very beginning. And what better place to start than with our Saudanswink Populary



EARLY INTERVENTIONS



A rethink about early learning in angamvadis and play schools is needed.

Customised nutrition policies hold the key to bealth equity.

The unequal battle against undernutrition



RESEARCH ASSOCIATE & RESEARCH STAFE MILTINGHIMPHLII

DEDERNOTRATION in early life remains a pressing public health crisis in India. While national statistics relebrate the decline in shild streeting the averages picture a more unsettling reality -regional and social inequalities that hamper the country's progress. According to the National Family Health Survey (NFH5-5). mainly 38% of the children under the age of five are stanted. Though it is an impresement from the previous survey, there are

regional disparities. Over time. the incidence of stunting through interventions in some regions has reduced.

The highest prevalence of child stanting continues to be in-Bihar H2.96%, UP (88.75%) and Thurkhand (28/38%) - states where poverty, inadequate healthcare and low maternal calucation persist as critical barriers. These states illustrate how comomic and social disadvantages converge to impede nutritional outcomes.

In contrast, Kemia (23.47%), Purpin (34.49%) and Tamid Night (25.04%) standout for their relationly low starting rates. The 177s of Gos. Padacterry and the Andorran & Nicobar Islands, also report better outcomes, benefiting from stronger health indrestructure, higher litmacy levels and more inclusive sectal policies.

Chandigarh, Dansan & Dia, Hitmarkal, Pradech, Morepur, Purjob, Thmil Nadu and Uttanikhand have shown notable reductions: in sturting between NFHS4 and NFHS5.

The persistence of stanting is not only about genetics; it is also a development issue and a product of inequality. A study by Magactum, et al. has shown household income. tratamaleducation, clean water, food diversity and women's empowerment play roles in country such disportive.

The problem is compounded by gaps in

awareness and behavioural change. Many women are unaware of the nutritional needs of children and the importance of a balanced diet during the first 1,000 days of life. Nutrition programmes often focus on supply distributing supplements or food --- but the demand side, including household awareness and women's agency in decision-makeing is equally crucial.

The implications of early-late undernatrition are farmeding. Stunned chaldren face debyed cognitive development, lover school performance and a higher rule of diness and mortality, which can further harm their pievsstalland mental health. The damage extends into adulthood - reducing productivity and saming potential and perpetuating the cycle. of powerty and exclusion. In a country aspering to homess its demographic dividend. such lessestere unaffordable.

Tucking the matritional divide demands state-specific strategies that integrate health. sanitation and education within a community incrework. States with high exenting providence must prioritise content-sensitive interventions that address both supply and demand barriers. For instance, in UR factors such as a child's both order, maternal effects fine, community-level matrium practices, inselectuate household conitation furbition and low household wealth have a apparloant impact. But in Thereil Nacks, individual level the longiay agreeter role. This implies that turner est similar variables in states without considering their sturning levels can be inaffective.

Policies could be customised as per the statu's needs. For instance, Tarnii Nadu offers a model for customisation; its Integrated Nutrition Programme, merged with the Integrated Child Development Services in 1800, employs a two-worker model to strengthen community ongagement -- critis the one worker model in most states.

To enhance policy effects eness, introducing co-production is vital. This approach erables estables to co-create and participate in programmes, fostering trust, accountabiliby and better digressed with ground realized Since-community-level sacciution behaviour settings in tragger drawer of inter-state disquerby empowering communities to own these outcomes to here

India carnot achieve its demographic dividend if many chaldren are desired the right to healthy growth. The fight against stienting. therefore, is not just a public health priorityit is a round and comments impenting.



Teh Becompensed



अमेरिका आज जो है, वह प्रवासियों की वजह से ही है। वे हमेशा अमेरिका की समृद्धि की प्रेरक शक्ति रहे हैं।

– बराक ओवामा

अमेरिका की मजबूरी

H-1B बीजा और विदेशी स्टूडेंट्स के दाखिले को लेकर अमेरिका का रुख नरम पड़ता दिख रहा है। जो ट्रंप एडिमिनिस्ट्रेशन अभी तक मानता था कि प्रवासियों की वजह से अमेरिकी लोगों का हक मारा जा रहा है, उसके विचारों में बदलाव अचानक नहीं आया। इसके पीछे अमेरिका की अपनी जरूरत और मजबूरी है।

टैलंट की कमी । राष्ट्रपति डॉनल्ड ट्रंप ने एक इंटरव्यू में कहा कि अमेरिका को H-1B वीजा धारकों की जरूरत है, ताकि



H-1B पर नरम रुख

देश में टैलंट आ सके। उन्होंने स्वीकार किया कि अभी अमेरिका की इंडस्ट्रीज को संभालने के लिए जिस तरह के हुनर की जरूरत है, वह स्थानीय लोगों में नहीं। ट्रंप की यह बात MAGA समर्थकों को चुभने वाली थी। कट्टर ट्रंप सपोर्टर भी विरोध में उतर आए।

उद्योग जगत चिंतित । तीखी प्रतिक्रिया को देखते हुए ही वित्त मंत्री स्कॉट बेसेंट ने बताया कि स्किल्ड

विदेशी लोगों को अमेरिका बुलाकर अमेरिकियों को ट्रेनिंग दिलाएंगे और फिर उनको वापस भेज देंगे। इस योजना से अमेरिका की मौजूदा स्थिति जाहिर होती है। वीजा नियमों में सख्ती के बाद उद्योग जगत ने जो चिंता जाहिर की थी, उसका असर दिखने लगा है और इसी वजह से अपने समर्थकों के गुस्से को दरिकनार करते हुए ट्रंप को नया फैसला करना पड़ा।

भारतीयों का योगदान । H-1B की शुरुआत 1990 में की गई थी। शुरुआत में हर साल 65 हजार वीजा जारी किए जाते थे, लेकिन जल्द ही इस कैपिंग को बढ़ाना पड़ा। यही समय था, जब प्रवासियों और उनमें भी खासकर भारतीयों ने अमेरिकी टेक इंडस्ट्रीज को संभाला और उसे वह ऊंचाई दी, जहां आज वह है। इस मेहनत, हुनर और लाखों सपनों को समझे बिना ट्रंप ने रातों रात चीजें बदलने की कोशिश की, जो संभव नहीं था।

प्रवासी जरूरी । नए H-1B वीजा के लिए एक लाख डॉलर की एंट्री फीस से अमेरिकी उद्योग के सामने टैलंट क्राइसिस खड़ा हो गया है। US चैबर्स ऑफ कॉमर्स ने तो इस फैसले को कानूनी चुनौती दे रखी है। इस समय जब AI को लेकर चीन के साथ होड़ चल रही है, तब अमेरिका को पहले से ज्यादा हुनरमंद कर्मचारियों की जरूरत है। यह अच्छी बात है कि ट्रंप ने विदेशी स्टूडेंट्स की अहमियत भी समझी। इस साल मई में विदेशी स्टूडेंट्स के नए बीजा इंटरव्यू पर रोक लगा दी गई थी। लेकिन, यह मानी हुई बात है कि दुनियाभर से आई प्रतिभाओं, उनके खानपान-भाषा-संस्कृति की विविधता ने ही अमेरिकी शैक्षणिक संस्थानों को सीखने की सबसे बेहतर जगहों में से एक बनाया है। \

The world in a single nest: How India's education is embracing Tagore's global vision





PREM KUMAR KALRA

J K VERMA

When Rabindranath Tagore founded Visva-Bharati University, he envisioned it as a place "where the world makes a home in a single nest". His dream was not to Westernise Indian education, but to universalise it — to let the winds of the world blow freely through India's corridors of learning without uprooting the Indian tree. A century later, that vision appears to be taking root once again. The decision to allow foreign universities to establish campuses in India marks a defining moment in the nation's educational journey. India's civilisation has always been broad, inclusive, and intellectually open.

The ancient universities of Takshashila and Nalanda remind us of our rich tradition of cosmopolitan scholarship. History is replete with accounts of scholars from China, Greece, and Central Asia travelling to India in search

of wisdom and dialogue.

Today, the arrival of foreign universities is often viewed through economic or competitive lenses. Yet its deeper significance lies in something more profound — the revival of India's ancient spirit of dialogue between seekers of truth across cultures. It signals India's readiness to engage with the global education ecosystem on its own terms. Diversity, excellence, and affordability will soon stand at our doorstep. For thousands of Indian students, the dream of an international degree no longer demands the crushing expense of studying abroad. The world, quite literally, is coming home.

This exchange, however, will not be oneway. The partnership between Indian and foreign institutions promises to be both cooperative and competitive. Indian students will benefit from exposure to global pedagogies, research methods, and multidisciplinary learning environments. In return, foreign universities will gain unique insights into the opportunities and challenges of one of the world's fastest-growing knowledge economies. The "global classroom" is already taking shape — where a student from Jaipur debates a peer from Japan, and a professor in Delhi co-guides a thesis with a mentor in Melbourne.

Yet the road ahead is not without chal-



lenges. The internationalisation of education, if left unchecked, could become a luxury reserved for the privileged. Many global programmes still cater primarily to affluent learners. India must therefore establish strong frameworks for scholarships, flexible credit transfers, and "earn while you learn" opportunities. Equity and access must remain at the heart of this transformation. The true spirit of Indian education lies in balancing public good with private growth. The nation must ensure that education

does not become a commodity, but continues to serve as a catalyst for character and creativity.

Importantly, India is no longer

merely a recipient of global influence; it is also emerging as a contributor. Several premier Indian institutions, including the IITs and IIMs, are now setting up campuses abroad. This represents not just the export of curriculum, but the sharing of an Indian educational philosophy — one rooted in moral reasoning, inclusivity, and holistic growth.

Among the most promising innovations in this evolving landscape is the Academic Bank of Credits (ABC). This initiative allows students to accumulate and combine credits from both Indian and foreign universities, paving the way for dual or joint degrees. It recognises that learning is a lifelong, borderless pursuit.

A student might begin her degree in India, complete a semester in Singapore, and finish her research in London — all within a single academic framework. The result is not only greater mobility, but a deeper intellectual maturity born of diversity.

Meanwhile, the classroom itself is transforming. The rise of Artificial Intelligence (All, virtual laboratories, and hybrid learning

models has made education more interactive and cost-effective. Students can now attend lectures by global faculty, collaborate with peers across continents, and simulate experiments in real time. Yet technology cannot replace the human touch. The teacher's role as a mentor, guide, and moral compass has never been more vital. We must ensure that machines do not erode the spark of curiosity and the depth of reflection that define true learning. This transformation calls for intro-

spection. What do we truly value in education? As India opens its universities to global influences, it must also nurture critical thinking, empathy, and ethical awareness. The test of education lies not merely

In employability, but in enlightenment. The challenge is to engage with global diversity without losing one's distinct identity.

The global winds, then, need not uproot the Indian tree — they can help it bloom. India's entry into the global education marketplace is not merely a policy shift, but a cultural evolution. It signals a confident assertion that Indian education can stand shoulder to shoulder with the best in the world while retaining its moral centre.

If pursued with vision and vigilance, this initiative will allow India's universities not only to absorb global knowledge but also to radiate their own light outward. The Tagorian nest, it seems, is ready once again — for the world to make its home.

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TELEGRAPH (P-14), 15 NOVEMBER 2025

The geometry of belonging

The mathematician, Manjul Bhargava, Flelds Medal winner and professor at Princeton, delivered a lecture in India that has since stirred no small amount of controversy. Dressed in kurta-pyjama, a sartorial choice that some read as a subtle nod to the cultural politics of the far-Right, he argued that schools across the world should move away from teaching colonial history and, instead, highlight the history of science as it originated in Indian texts and scriptures.

Bhargava's proposition precipitated a paradigmatic schism, dichotomising perspectives on the narrative of mathematical history. On the one hand, his advocacy for a recalibration of the dominant Eurocentric discourse, which privileges ancient Greece as the foundational locus of mathematical inquiry, resonated with those seeking to rectify historical injustices and acknowledge the substantial contributions of Indian mathematicians. Conversely, his suggestion was perceived by others, including myself, as perilously proximate to a right-wing ideological agenda that instrumentalises selective historical narratives to assert cultural hegemony. When intellectual assertions regarding heritage converge with the rhetorical tropes of political leadership, the distinction between impartial scholarship and politically expedient appropriation becomes increasingly tenuous.

None of this is to deny the extraordinary richness of Indian mathematics. From the Sulba Sutras, which sophisticated geometric contain rules, to Arvabhata's (picture) work on the place-value system and trigonometry in the 5th century, which led to Brahmagupta's formalisation of zero and negative numbers in the 7th century, Indian contributions are both foundational and profound. The transmission of these mathematical concepts to Europe via Arab intermediaries played a pivotal role in shaping the intellectual trajectory of the Renaissance and the ensuing scientific revolution. This historical dynamSHELLEY WALIA

ic underscores the antecedent and the influential nature of Indian mathematical contributions, thereby rectifying the historical narrative and providing a more nuanced understanding of the global genealogy of mathematical knowledge.

Yet the problem is not whether India should be given its due. The problem lies in how the story is told, who tells it, and for what purpose. Bhargava's perspective of rejecting colonial history while privileging a mythicised lineage of Indian science risks collapsing global history into a nationalist narrative.

A more profound concern underlying this discourse is the dearth of rigorously trained historians of science in India which has resulted in a significant lacuna in the field. In contrast to the disciplines of history and literature, where postcolonial scholarship has effectively problematised and deconstructed the dominant Eurocentric narratives, the history of science remains notably underdeveloped. Consequently, the prevailing historiography of mathematics continues to adhere to a Eurocentric framework, privileging ancient Greece and Europe as the primary loci of mathematical innovation while relegating non-Western contributions to the periphery of the narrative.

What India urgently requires are scholars who are well-versed in both Sanskrit and advanced mathematics, a rare but crucial combination. Only such expertise can systematically recover, contextualise, and reinterpret the mathematical knowledge embedded in ancient texts. Without this intellectual labour, the vacuum is easily filled by political ideologues who cherry-pick cultural achievements to bolster chauvinistic pride. In this sense, Bhargava is both right and wrong: right that the story of science is distorted, but wrong in proposing simplistic remedies that play into the hands of the right-wing rather than building a rigorous, global, and plural history of science.

The disparity becomes increasingly evident when situated within the context of postcolonial studies in



the humanities, a field that has undergone significant transformations through the critiques of imperialism advanced by thinkers such as Frantz Fanon, Aimé Césaire, and Edward Said. Said's seminal work. Orientalism (1978), paradigmatically exposed the manner in which Western discursive practices constructed the East as an exoticised and backward Other, while Césaire and Fanon's analyses underscored the dehumanising effects of the colonial discourse on the colonised. Their collective scholarship has facilitated a profound reevaluation of national histories and cultural narratives across the Global South, challenging the entrenched assumption that European experiences and perspectives constitute the sole legitimate starting point for historical inquiry. This intellectual trajectory underscores the imperative for a more inclusive approach to understanding the complex dynamics of knowledge production and cultural exchange.

Yet in the history of science, this decolonising impulse has not been carried through with equal vigour. The Eurocentric story of mathematics as a Greek and European invention remains dominant, while the profound contributions of India, China, and the Islamic world are treated as mere preludes. The irony is striking: while literature, politics, and culture have undergone sustained decolonisation, science remains shackled to a Western master narrative.

This is precisely why the task is urgent. If postcolonialism has taught us anything, it is that recovering suppressed histories must be done through rigorous scholarship, not through political sloganeering. The absence of historians of science in Indian universities leaves the field vulnerable to precisely the kind of rightwing appropriation that Bhargava's lecture risks legitimising.

Equally troubling is the politics of presentation. When Bhargava, a USbased academic, appears in kurta-py-Jama to deliver his lecture, it cannot be dismissed as mere coincidence. Clothing, in India's contemporary climate, is a signal. It evokes the visual language of the right-wing which deploys traditional attire to authenticate claims of cultural rootedness. Whether Bhargava intended it or not, his choice of dress played to the gallery of reactionary conformists who thrive on this form of symbolic validation. This is not to deny Bhargava the right to wear what he chooses, but to recognise how symbols matter in politics. In an era when everything from food to attire is weaponised in cultural battles, intellectuals must tread carefully to avoid feeding narratives that they may not fully endorse.

Bhargava's call to foreground Indian science could have been an opportunity to demand more rigorous historiography, more institutional support for interdisciplinary training, and more international collaborations to reconstruct the global history of mathematics. Instead, it came across as a gesture of cultural revivalism, aligning too neatly with the rhetoric of a ruling establishment that seeks legitimacy in imagined golden ages. The danger is twofold. First, it risks alienating serious scholars, both Indian and international, who are wary of nationalist distortions. Second, it reduces India's genuine mathematical inheritance to a political talking point, robbing it of the universal recognition it deserves.

The way forward, then, is not to reject colonial history outright, nor to glorify Indian achievements in isolation, but to demand a balanced, plural, and global history of mathematics. This means acknowledging India's pioneering role, tracing its transmission to other cultures, and situating it alongside contributions from Mesopotamia, China, the Islamic world, and Europe. It means investing in the training of historians of science who can bridge the gap between textual scholarship and mathematical expertise.

Shelley Walia has taught in Panjab University

Why student elections remain banned

SANJEEVSINGH BARIANA

T was in March 2018 that former Punjab Chief Minister
Capt Amarinder Singh, while
addressing the state Assembly,
announced that "from the next accudemic session (2018-2019), direct
student body elections will be held
in universities and affiliated colleges". He specifically mentioned
Guru Nanak University (GNDU) in
Amritsar, Punjabi University in
Patiala, and Punjab Technical University in Jalandhar.

The announcement turned out to be a damp squib. The Congress never brought up the topic again; its term ended in 2022. Even the Aam Aadmi Party government has chosen not to broach the subject.

WHAT LED TO DISCONTINUATION

Student elections in Punjab's universities were discontinued in 1984 when terrorism was at its peak. The ground looked rife for their revival after the return of normalcy during the tenure of Chief Minister Beant Singh in the early 1990s. His assassination on October 30, 1995, put paid to any such plans.

The All India Sikh Students Federation (AISSF), originally focusing on promoting Sikh values, was among the leading proponents of a Punjab has not seen polls on campuses in four decades; HP and Haryana too face restrictions

radical movement during the days of militancy in the late 1970s and 1980s. University campuses — particularly GNDU and Punjab Agricultural University (Ludhiana) — were seen as hotbeds of youths supporting extremist ideology. The Patiala campus of Punjabi University was no exception.

When activists resorted to violence during protests and demonstrations, elections were banned from the 1984-1985 session.

VOICES FOR AND AGAINST

Students from GNDU and Punjabi University raised the issue of restarting elections on campuses when they joined Panjab University students in Chandigarh recently to protest the now withdrawn new governance model. Punjabi University students had demanded restoration of the university Senate in 2017. GNDU student organisations have often been in the news for raising issues concerning students.

Former minister Brahm Mohindra says, "There can be no excuse for not conducting elections in a democracy. Elections might look difficult these days, but nothing is impossible if the government wants it. Elections are the best training grounds for building leadership qualities, shaping young minds for issue-based debates and taking decisions."

According to former Vice-Chancellor of Panjab University Arun Grover, "Elections are not happening because no political party wants it. Students are basically seen as anti-establishment forces."

GNDU Vice-Chancellor Prof Karamjeet Singh says "taking different aspects into consideration, it is the government which decides whether or not to have any elections".

Those opposed to student elections on university and college campuses feel that the process allows unnecessary influence of political parties and disruption of studies.

CAMPUS TO STATE POLITICS

Several leaders first made their mark in student politics. Senior Akali leader Prem Singh Chandumajra, an alumnus of Punjabi University, was appointed as the first president of the Youth Akali Dal. Brahm Mohindra was an active student leader during his days at Mahindra College, Patiala.

Leader of the Opposition Partap Singh Bajwa, a student leader of DAV College, Chandigarh, in 1976, went on to become the district president (Gurdaspur) of the Punjab Youth Congress before being appointed as vice-president.

Former Congress MLA Kuljit Singh Nagra remained president of the PU Student Union for nearly a decade. Dalvir Singh Goldy, also a former PU leader, became an MLA on the Congress ticket.

HP, HARYANA ON SAME PAGE

Himachal Pradesh University (HPU) has over 100 affiliated colleges but no elections have been held since 2014. The ban followed repeated incidents of violence and clashes in HPU and colleges.

In Haryana, a ban on holding student elections was imposed by the Bansi Lal government in 1996 following incidents of violence.

Indirect elections were held after a 22-year gap in 2018 — class and department representatives in colleges and universities were chosen and they further elected the president and other office-bearers.

This process too lasted only a year, and was discontinued.

HINDUSTAN TIMES (P-14), 17 NOVEMBER 2025

Dindustan Times

OUR TAKE }

Trump's policy somersaults

These course corrections do not suggest a change in his world-view, but are forced by economic and political compulsions

chadenfreude is often a powerful tool in politics. It is even more powerful when societies are deeply unequal and the engine of inequality has had broad support from the ruling elite. The MAGA campaign of Donald Trump, the politician, talks about trade wars and demonises outsourcing of services and allowing skilled migrants into the US, was precisely that: Schadenfreude par excellence. But demonising or punishing others, and taking pleasure from their misfortune, is of little good when it comes to fixing things, especially in an economy as high-stakes and globalised as the US. Trump, the president, is realising more of this every passing day.

First, he had to walk back on his de facto killing of the H-IB visa programme. Take out skilled migrant workers, and the US will go from an abundance of cutting-edge human resources to a scarcity of talent. Now, he has rolled back a lot of his tariffs on essentials such as meat, bananas and coffee. Of course, there is also the larger detente with China amidst all this largely because the latter holding back rare earth supplies would have brought the US electronic

industry to a halt.

Make no mistake: These sensible course corrections aren't because of some sincere change in Trump's worldview. They have been made because they are necessary to not just keep the American economy going but also preserve political capital — such as among small traders and even consumers — in the wake of recent electoral reverses. Of course, some of it is also to pre-empt an institutional blowback from the US Supreme Court, which is weighing in on how much of Trump's tariffs can bypass legislative scrutiny.

This is not happening for the first time. That Trump always chickens out or TACO is now a given. Because the US is also the global economic leader, the rest of the world, India included, has no other choice but to live with these flip-flops and show patience and perseverance. However, two more things are worth noting. One, TACO shouldn't necessarily be seen as a weakening of Trump's political appeal in the US. More so in an environment where his opponents seem to be celebrating these as justification for status quo ante. Two, and this is more unfortunate, is that by having reduced US politics to a diabolical cycle of schadenfreude and TACO, Trump is not taking it anywhere close to being more just.

Arfa Sayeda Zehra, an elegant teacher, a fearless critic



Saif Mahmood

Arfa Apa was a fearless critic of authoritarian regimes. A former professor of history and principal of Lahore College for Women University, her contributions to public policy and civil society were guided by a resolute commitment to justice, human dignity, and the primacy of dialogue

OR SEVERAL years, social media has been fascinated by a petite elderly lady with cropped hair, speaking in mesmerising Urdu of the beauty of language and our composite culture, of human dignity and compassion, and of women's rights. Her name was Arfa Sayeda Zehra, and she passed away in Lahore last week, leaving behind a legacy that will endure far beyond her years.

Arfa Apa, as I called her, represented a rare breed — the last of a generation that exemplified the very best of our shared cultural heritage. I remember, years ago, having a conversation with her at a literature festival. At one point, I asked her: What is Urdu? She paused, and with a twinkle in her eye, said: "Saif mian, Urdu sirfek zabaan ka nahin, ek mukammal tehzeeb ka naam hai (Urdu is not just a language, it is an entire culture)." It is not just speech, but the sum of how one lives, thinks, feels, and navigates the world; and it was this wholeness she dedicated her life to protect. This conviction was evident in every statement she made, often with disarming wit. Of the impossibility of translating cultural experience, she would say: "Kofte mein jo maza hai wo kabhi meatballs mein ho hi nahin sakta (the joy of kofta can never be experienced in meatballs)."

There are certain words in Urdu for which there are no English equivalents; among them are akhlaaq and khuloos. The word akhlaaq has been translated differently as "etiquette" or "refined manners" and khuloos as "genuineness" or "sincerity" but none of these convey the essence of the original. While khuloos is also typified by an element of lovingness and warmth, akhlaaq entails an enduring attachment to one's social values. Arfa Apa embodied both.

Although a quintessential Lahori, her speech embodied the elegance of Lucknowi tehzeeb, her accounts of her encounter with which, during her brief stay in the city, became legendary. She would gently mock her own Lahori bluntness against Lucknow's famed refinement. Her self-deprecating humour was an integral part of who she was. When Zarminae Ansari, founder of Joy of Urdu, asked her to suggest a name for their online poetry masterclass, she named it Arfa aur Zarminae ki himaaqatein (The stupidities of Arfa and Zarminae). The classes turned out to be an unqualified success.

Arfa Apa was a fearless critic of authoritarian regimes. A former professor of history and principal of Lahore College for Women University, her contributions to public policy and civil society were guided by a resolute commitment to justice, human dignity, and the primacy of dialogue. In an era of vanishing grace, she personified the values we are at risk of losing — to speak with the knowledge that your words can both harm and heal. To stand with the vulnerable. And when language fails, to accept the untranslatable: Call a kofta a kofta and allow it to maintain its maza.

The writer is a London-based international lawyer, advocate, Supreme Court of India, author, and visiting academic at University of Oxford, UK

INDIAN EXPRESS (P-15), 17 NOVEMBER 2025

WHY MANINDRA AGRAWAL

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'While we provide freedom to our faculty to pursue their own activities, we have a very permissive attitude towards non-performance'

Manindra Agrawal, Director of ITT Kanpur, on AL, systematic flaws driving India's coaching boom and the changing face of India's research ecosystem. This session was moderated by Deputy Editor Amitahh Sinha



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ONDEVELOPING CRITICAL TECHNOLOGIES

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RAJEEV NARAYAN

THE WRITER
IS A VETERAN
JOURNALIST AND
COMMUNICATIONS
SPECIALIST

A well-intentioned quota system for the country's poor has morphed into a black market of fake certificates and systemic squander, where paperwork trumps poverty and opportunity bends toward the resourceful, not the deserving

The Uplift That Wasn't

EWS quotas in higher education were a bond for the poorest, but have become a trap that the deserving fall through, while the rich ride it using forged papers

"Poverty is not natural. It is only mun-made and can be overcome and enalicated by the actions of follow men."

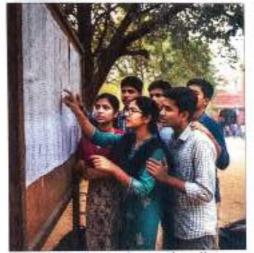
- Nelson Mandela

t arrived not as legislation. but as hope. For families living in rested single rooms. for parents juggling casual wages, for students studying under don bulbs while their future felt permanently rationed by circumstance, the 103rd Constitutional Amendment was a thunderclap of possibility. When both Houses of Parliament deared the 10-per cent reservation for Economically Weaker Sections (EWS) in January 1019, the applicase was not just political, it was personal too. India had said what millions worldwide felt in silence - that poverty too deserved reservation. For the first time in independent India, affirmative action expanded beyond identity to include income.

The quota was planned as a gumechanger, one that would open doors in universities and govecoment recruitment to students defined not by caste disadvantage but by economic deprivation. With nearly 23 crore Indians below the poverty line, and crores more in unstable near poverty, the policy promised an escalator into India's most coveted upward mobility machine: government institutions The rules were clear. EWS seats would be carved from fresh allocation, leaving existing reservations for SC, ST and OBC untouched. Eligibility would be capped at an armual household income of 8a 8 lakh, combined with limits on land ownership and residential assets. Merit, Parliament said, would not be sacrificed, only expanded to include 'merit horn in hardship'.

Sadly, legislations don't transform lives; implementation does Five years after the hope handed out in 2019, the ledger of outcomes demands an uncomfortable sudit. Zoo of Misrepresentation

In principle, the quota was an attempt to identify poverty. In practice, it asked poverty to prove itself on paper. In a country where looks sum in cash, lock land titles and live outside digital documentation grids, servification.



The quote was planned as a general party or that would open doors in universities and general recruitment to students defined not by costs disadvantage but by economic deprivation

was never a neutral administrative step. It was always going to be a new hastiefield. What few anticipated, though, was how quickly it would become a business model.

Barely two years into the schemes rollout, reports surfaced from Unar Pradesh, Bihar, Rajasthan, Maharashtra, Delhi and Madhya Pradesh, exposing a new underground service economy the buying and selling of EWS certificates. Depending on the state, broker and greency, priors ranged between Rs 25.000 and Rs 1.5 lakls. Packages' were on offer, including income certificates, landholding deeds, notary verification and, in some cases, local administrative assurance India had learnt how to certify powerty for a commission.

In 2023, a sting investigation across five northers Indian districts uncovered 2,600 prima facie forged income certificates issued in a single admission cycle. The number of pressentions was. Zero. Former NITI. Awag CEO Amitable Kare commorised the flaw with unperving precisor. We built an entiferness without building a verification architecture.

Today, at many universities, EWS seats are filled at rates exceeding 95 per cent, higher than General or OBC occupancy. Statistically, it signals a roating success. Sociologically, it is a regulatory collapse.

Poor Versus Paperwork

The most trage twist in the EWS story is not that the undeserving have entered, it is that the deserving are being kept waiting. The salarted lower-middle class can verify earnings through bank statements. Form 16s, tax illings and digital footpents. But the truly poor, such as daily wage-earners, informal workers, domestichelp, small tenant faraters and gig workers; often earn-invisibly. Their montey is real, but carrecorded. Their deprivation is evident, but undocumented.

A 2024 study by the Centre for Equity Studies showed 37 per cent of troly lose income applicants failed to produce documents acceptable for EWS artification. By constant, only 12 per cent from stable income groups faced rejection on pager work grounds. Simply pur, the poure the applicant, the best blody they are to clear the 'poverty test'. A Suprome Court advocate called this a paradox of evidence. "The pour have hard-shop, but the printleged have pages."

work." HWS was meant to offset inequality. Instead, it has mirmed the oldest rule of inequality, that advantage adopts faster than policy.

How Others Verify Poverty

India is not the only country to extend benefits using economic thresholds. But it is among the few to do so without first building an impermeable verification system. In the US, need based education assistance is validated through IRS-linked meome records, with fraud carrying heavy federal penalties. Brazil's ProUni scholarship. programme cross-verifies household earnings with national tax. and social security databases. China's poverty alleviation schemes. deploy ground-level audits backed. by digitised household, land and employment registries.

Welfare systems globally are policed by digital verification and enforced by legal consequences. In India, verification is analog, decrinalised and easily gamed. Determine is slow, weak or absent. Most countries build guardraffs before disbursing benefits. India built benefits and handed them out, hopping that the requisite guardraffs would follow.

Over the past three years, education watchdogs, student unions and faculty bodies have highlighted a troubling mutation, of EWS certificates being channelled for pre-adentified candidates in high-stakes courses like medicine, engineering and law. In these cases, reservation is no longer a safety net, it is a procutement strategy. This is not administrative failure. It is philosophical corresion. A policy designed to neutralise privilege is being weaponized to cernett it.

Sociologui André Secille unce seamed. 'In India, inequality does not disappaze; it just renivents tiself through new rules of legitmacy.' The EWS quota, intended to be a disruption, has been conserpted into inequality's long project of reinvention.

Reform, Not Repeal

The univer lies not to abolition, but in reconstruction. Verification most shift from adidorm to system-authenticated data. PAN-Audhear income map-

ping, digitised land registries, GST-limbod income trials for informal businesses and automated cross-wildation car build a robust verification spine. After all, ladia has managed to architect instantaneous sufferitioning for 13 billing UPI transactions a month. It should surely be able to verify 20 lakh EWS applica-

And fraud must carry consequence and punishment; admission cancellation is not determined enough. Multi-year education bans, financial penalties and criminal prosecution for forgeries must become standard. Frocesses must bend toward the poor, not away from them. Community certification models, presumptive eligibility for informal workers and institution-led documentation cells can help genuine applicants mivigate bureaucratic proofs they are just not equipped to put together. Pinally, universities most publish regular EWS and treports. including acceptance rates, rejection causes, verification discrepanciss and fraud detection.

FWS was conceived as an instrument of inclusion; it must not degrade into a cool for capture. Its very purpose was to reduce distance between talent and opportunity, not creare earrange assumes for brokers. The poor do not ask for shortcuts, only fairness. The time to course-correct is now. If baths fails, it would be the policy that is verifien off. What will die is the faith in what pelicy can

Schleguy: In 2023, an RTL sweep across eight states revealed. that fewer than 6 per carsi of mutitotions verified EWS certificates post-admission. As many as 14 per cent of checked cases showed serious discrepuncies, but action followed in under I per cent. That same year, a student in Hyderabad was admitted via EWS but later found to be from a family esening three properties and a business filing GST returns of over Re-40 lakli annually. His seat stood for two sertiesters before a review even began.

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The need for a decisive shift toward inclusive development

Education is the most crucial foundation of disability welfare. It shapes the future of every child and serves as the key instrument that opens the door to opportunity, self-confidence, and social acceptance





BHUVNESH YADAV

radia codos stande at a crucial turning maint of capid oconomic growth, technological Impoveriors, and pactal transformation. The country is not only succeeding in enhancing its economic strength but is also making agreess) new efforts in social swelfare. Very the harsh readily sensoles that the true resistance of a nation's progress is not deterreined by its GDP, manufacturing capacity. or cigital infrastructure alone, but by how affectively it ensures meanty, dignity, and equal opportunities for its most vulnerable and disadvantaged citizens.

In this contest, persons with disabilities (PWDs) emerge as one of the most imporcannered magnified segments of the nation's collective human capital, India is home to between 80 and 100 inition persons with disabilities - o figure larger than the total population of many countries - yet this was group soit struggles to achieve full social. economic, and developmental participation. Persons with disabilities are not exertly benoficiaries of austitance: they are active citisess, skilled human resources, and integral participants in the nation-building process. Therefore, the welfare and rehabilitation of persons with disabilities must copagy a central position in tride's public policy framework.

Current Challenges

incomment, the poment screams in quite the apposite. Persons with disabilities continse to face numerous barriers in banic assau such as education, health, employment, accessibility, and rocal security. These barriens are not merely policy gaps but indicanors of their synchural challenges, understoring the need for a clear vision, a fongterm strategy, and rigorous longitumentation. in this sector.

Education: The Foundation of Empowerment

Education is the most crucial foundation of disability welfare. It shaper the future of every child and serves as the key Instrument. that opens the door to opportunity, self-confidence, and social acceptance. Yet inclusion in India's education system remotes as:



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SOCIAL SECURITY SCHEMES FORM THE BACKBONE OF A LIFE OF DIGNITY FOR PERSONS WITH DISABILITIES -COVERING PENSIONS. SCHOLARSHIPS HEALTH

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digital education, readel inclusive schools, and tracker training linds now reads to adopt . BESTER AN FE BE inclusion in education as a

nationalitie represented -- a firead-busid "motosive india Campaign" that brings revabitionary improvements across infrastructure, particulum, teacher emining, and technology.

Health and Rehabilitation

Houlth and rehabilitation constitute india personic pillars of a deputied tile for persons with disablities. The goal of any public health system should not merely

be to provide postment but to preserve the osoloy of life, instependence, and lunc cional ability of every citizen. Yet the availability of rehabilitation services in India menaltri entremely answer and limited.

in many displicts, regular facilities for physiotherapy, speech therapy, occupasional thurspy, practiclogical counterling. and behaviously intercentions are either removing or reservely inadequate. Children affected by autism or tree lectual disabilides tack accept to specialised training and cherapies, looking fireflies to depend on expensive private services, criaffordable for many, Another major challenge lies in the early identification of disabilities in shindren based or 4 years, Hexis parents med ID demlock demlopmental delays as normal, and the benith system little Placks adequately tolined personnel for early acreering. Commencently, the potential for narly intervention distribute. Pleasewer. assistive devices such as selectedures. arthotic supports, bearing oith, and fealth lits are often fieliged or of poor quality.

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Employment and Economic Empswerment

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procedural tables in rematment or the absence of workplace accommodations in the private sector, the eniglityment of persons with disjoilities remains the exception rather than the nature, even though the modern digital economy offers countries rates in which they

Uniteriorately, mast (Bill-development) merers will tack inclusive curricular trained instructors, and adsorne technologies. presenting many takented young people with strabilities from becoming jobrecode, it is therefore expensive that lend in learn's a "Numbered Disability Treployment Missipe" - with their provisions for vocational training, workplace adaptorium, private sector incentives, and financial appoint his district excreptionary.

Accessibility: The Core of Inclusion

Accessibility - whether physical, treespost-related, at digital - in the most fundamental yet often the restt neglected paper of the for persons with disabilities. fromts, toorpadys, beter, saltung stations. acceptable offices, and government plottorns are not taurier-free, persons with displication can never participate equally in mainstream society, this is not a reatter of consenience; it is a matter of emplicationship rights

Aithreigh accessibility audits have been initiated in most cities, their pace and quality remain limited, plottel accordal-By in also recommittent - many governreant websites are incompatible with screen readers, rendering them always unusable for visually impasted users. Hence, inch organity hands a comprehensive tixtional Accessibility Mission, mandating total processibility standards by every public and private building clients platform, and transport motion

Social Security and Exhibements.

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Women, Children, and Tribal Areas

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Institutional Coordination and Gesemance

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From Sympathy to Egoptwormen

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Technological empowerment of Women: The way forward for climate resilience



REEMA PANT

The Dioneer

The Himalayan region, with its breathtaking landscapes and ecological sensitivity, is also a volatile and temperamental ecosystem. Rapidly changing global climate is impacting this geologically young region even more. Ridden with flash floods, glacial lake outburst floods (GLOFs), landslides, cloudbursts, glacial retreat, and earthquakes, this "water tower of the world" shows the profound impacts of the Anthropocene. The signs are clear as we witness an increase in forest fires, pre-season flowering, drying water resources, rising average temperatures, and the growing unpredictability of traditional farming seasons.

Amidst this unfolding crisis, a quiet revolution is taking place in the Himalayan ranges. Once again, it is led by women, but empowered by technology and grounded in

local wisdom. Women, the backbone of society for ages, have long been the harbingers of the socio-cultural fabric of communities that are part of this fragile ecosystem. They have created systems in sync with nature to sustain their presence in otherwise precarious environments for millennia.

As providers and resource managers, women have consistently navigated the changing weather and climatic patterns of the Himalayas, braving extremes and enduring disasters. From west to east, even as we observe cultural differences, there are stark similarities: women are farmers, forest gatherers, water managers, and caregivers. They manage their surroundings with the repository of generational knowledge within their communities, even before the advent of formal education systems. Although rapidly changing global conditions have made the Himalayas more fragile than many other vulnerable systems worldwide, women at the community level understand how to manage climate change and weather patterns. However, the intensity of change and the impact of disasters now present challenges that may require more than traditional wisdom. Women in the Himalayas face unique challenges, including dwindling natural resources, habitat fragmentation, human-wildlife conflict, unpredictable weather events, and the decline of traditional knowledge. To create truly resilient societies in the face of such overwhelming changes, these

bravewomen urgently need technological assistance. The situation is pressing, and we must act swiftly.

Western science has recognised that mountain women have traditionally practised climate-resilient agriculture, water conservation, and forest management. What has changed in recent years is the increased scarcity of natural resources, habitat fragmentation, human-wildlife conflict, unpredictable weather events, and the erosion of traditional knowledge.

As an avid traveller, I have often had the opportunity to interact with women in the remote regions of Uttarakhand. It is concerning to realise that there is not only a massive gap in understanding and applying traditional knowledge systems, which have been crucial for community survival for generations, but also a lack of affordable and accessible technology.

Today, mobile phones are multifunctional devices capable of taking GPS locations, mapping, and providing early warning updates. These handheld devices are becoming increas-

ingly reliable and robust.

Many self-help groups that recognise the power of technology have already begun blending traditional knowledge with these innovations, creating safer and more resilient

environments. It is awe-inspiring to see women assimilating technology while preserving their traditional values, becoming better prepared for disasters, creating sustainable livelihoods, and monitoring the environment. This convergence of tradition and technology is enabling resilient ecofeminist leaders to mobilise their communities and act.

Women in remote Himalayan villages are now using mobile apps for real-time weather alerts, disaster alerts, crop advisory services, and digital marketplaces for local produce. Self-help groups are adopting technology to manage solar lighting systems, blogas units, and even low-cost drone-based activities - fondly referred to as "drone didi."

In most Himalayan states, several grassroots initiatives are helping women take on economically active roles as homestay managers, nature guides, "aapda sakhis" (disaster mitigation assistants), forest firefighters, cultivators of climate-resilient crops, and preservers of agro-biodiversity. They are using tech-enabled tools to stay informed, participate in timely action, and raise awareness about changing climate patterns and resilience strategies.

Traditional knowledge combined with appropriate technology, with proper support and guidance, can transform women in rural landscapes and the communities that bear the brunt of climate disturbances. Gender-inclusive technological initiatives for climate adaptation can significantly enhance the resilience of

Himalayan communities. When all stakeholders - government, educational institutions, and civil society - share responsibility for developing gender-inclusive, technology-based programmes, only then can we bring about meaningful change. The government and communities have already begun to accept this challenge in the right spirit, acknowledging the grave danger if it is left unaddressed. Training hubs in rural areas that focus on digital literacy for women, with attention to climate and livelihood considerations, are being established. Women's perspectives are increasingly being incorporated into state climate action plans and disaster response frameworks.

Women's organisations at the grassroots level are gaining access to funds, tools, and knowledge networks. STEM education for girls in hill regions, with mentorship programmes, is being launched by government and private bodies to bridge the widening digital divide.

Environmental stewardship has never been more significant than it is today. As we advance in quantum computing, nanotechnology, space innovations, and artificial intelligence, we will still require air, water, and soil to survive along-side the delicate fabric of other cohabitants.

Environmental innovation is imperative and must be integrated into our lives to ensure survival with dignity in this increasingly complex and volatile world.

Educational institutions, particularly universities and technical colleges in the Himalayan belt, can play a transformative role by engaging students - especially women - in community-based technology initiatives, internships, and climate entrepreneurship programmes.

Climate change is real and a grave threat to the Himalayas. Every crisis comes with an opportunity. In this case, by technologically empowering women, we are not only enabling individual progress but also unlocking a powerful force for community resilience, ecological stewardship, and sustainable development. Women have coexisted with and adapted to the constantly fluctuating geoclimatic systems of the Himalayan range. They have established resilient communities as innovators, decision-makers, and protectors of the Himalayas. Today, they are also becoming victims of increasingly unpredictable climatic conditions. Their empowerment is not merely a matter of gender justice — it is essential for the survival and sustainability of the mountain ecosystem itself. PIPI 1919

The writer is an educator, environmentalist, and advecate for gender rights. She works at the intersection of science education, women's empowerment, and disaster resilience in the Indian Himalayan region





NOSTALGIA OVER LOGIC

Heritage must not replace rigour in Mathematics

Draft curriculum's tilt towards ancient knowledge erodes analytical rigour and the foundations of proof-based reasoning

ARGHYA BANDYOPADHYAY

The University Grants Commission's (UGC) draft Mathematics Curriculum, 2025, unveiled in August, has triggered an unexpected upheaval in India's academic community. Framed under the National Education Policy (NEP) 2020, the draft promises to create a "forward-looking" syllabus that offers students a "robust foundation in mathematical concepts and skills". Yet, behind this reformist language lies a troubling imbalance an excessive tilt towards ancient Indian Knowledge Systems (IKS) that risks eroding the very rigour on which mathematics must stand. At first glance, the draft appears well-intentioned. It proposes a structure for both undergraduate and postgraduate programmes, claiming to align modern mathematics with India's intellectual heritage. Its stated goals - value-based education, interdisciplinarity, and integration with the IKS -sound entirely unobjectionable. But a closer look reveals a pattern of substitution rather than supplementation; it introduces courses that privilege cultural familiarity over analytical training, heritage over abstraction.

Supporters of the new framework claim it offers a holistic blend of classical wisdom and modern science. Core areas like calculus, algebra, analysis, probability, and differential equations remain, alongside electives in computational and data science. A final-year research project for BSc (Honours) students is a welcome move to promote inquiry and research. Yet, the real shift lies elsewhere. The draft introduces courses such as Kala Ganana (traditional timekeeping), Bharatiya Bijganit (Indian algebra), Sulba Sütras (geometric rules), and Philosophy of Indian Mathematics, with readings from Sürya Siddhänta and İryabhafiyam. Framed as steps to-wards "decolonising" the curriculum, they signal a philosophical turn - from mathematics as a universal language of logic to a vehicle of cultural identity.

Studying ancient mathematical traditions is valuable, but making them central to the same curriculum as modern analytical mathematics risks diluting conceptual rigour. Sutrubased methods or cosmic time cycles may enrich cultural understanding but contribute little to mastering Linear Algebra, Topology, or Numerical Analysis. Many topics, like the Sulba Sūtras early form of the Pythagorean theorem, are already taught in school. More debatable are the inclusions like Kala Ganana and Pañchāṅga which blur the lines between astronomy and astrology. Making them credit-bearing courses undermines disciplinary clarity, leaving students ill-prepared for JAM, NET, or international PG programmes that prize abstraction and proof.



India's contributions to mathematics are beyond question - from the invention of zero and the decimal system to the pioneering works of Brahmagupta and Bhāskara II. Yet, to honour this heritage meaningfully, it must be understood within the continuum of mathematical thought, not as a substitute for modern discoveries. Brahmagupta's insights on division by zero, or Bhāskara's innovations in algebra and number theory, prefigured ideas later explored by Euler, Bernoulli, and Goldbach. These connections belong in courses on the history and philosophy of mathematics, where ideas are studied contextually, not as relics or replacements for analytical reasoning. The question is not whether ancient Indian mathematics deserves inclusion - it certainly does but how it should be integrated

To privilege sutra-based instruction on to treat Sanskrit shlokas as proofs confuses cultural pride with scientific education. Mathematics thrives on precision, abstraction, and logical generalisation – qualities vital in today's technological world. In an era shaped by AI, ML, and data science, India's students must master Algebra, Analysis, Probability, Differential and Integral Equa-

tions, Optimisation, Discrete Mathematics, and Information Theory – the mathematical core needed in forecasting natural hazards, studying climate change, understanding cryptography, and finance. Overemphasising heritage at the expense of such a foundation risks producing graduates rich in nostalgia but poor in analytical power – a loss both academic and economic.

Finding a better balance

A balanced approach is essential. India's mathematical heritage should be celebrated through electives or interdisciplinary courses linking Mathematics, Sanskrit, History, and Philosophy. Exploring ideas like zero or infinity across cultures can enrich understanding without diluting rigour. Mathematics must stay universal—rooted in proof, abstraction, and precision. Framing it as cultural identity risks reducing a global discipline to symbolism and weakening its analytical foundation.

India's true mathematical heritage rests on diligence and inquiry, not on rote recitation. Ancient scholars such as Āryabhata, Brahmagupta, and Bāskara were innovators who questioned, calculated, and experimented. To honour them is to uphold their spirit of rational curiosity, not merely chant their formulas. Students may study the Sulba Sütras. but they must also master vector spaces, partial differential equations, and eigenvalue problems. They should admire Ramanujan's mathematics while writing optimisation codes or while modelling cancer research. Heritage can enricheducation but never replace rigour. Mathematics is a way of reasoning, demanding clarity, consistency, and proof-the very traits that built India's intellectual past. Abandoning these in the name of revival would betray that legacy.

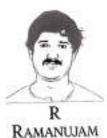
India stands at a crossroads. One path seeks to turn education into cultural reaffirmation, the other prepares students for a world driven by scientific reasoning. True confidence comes from engaging globally in knowledge creation. A modern mathematics syllabus must preserve rigour, promote research, and inspire innovation. India's mathematical heritage should enrich, not replace, proof-based reasoning and computational precision.

computational precision.

As the UGC finalises its framework, it must decide whether students will memorise ancient shlokas or design the scope of future mathematics. The answer will shape the roadmap of Indian Mathematics and mathematicians.

(The writer is Principal, Khalisani College, Chandannagar, Hooghly, West Bengal)

Is Al from Class III a leap forward or one too soon?



HE MINISTRY of Education has announced that an Artificial Intelligence (AI) curriculum will be introduced from Class III onwards in the 2026-27 academicsession to prepare India's future workforce for a "technology-driven economy". In July, the government launched the SOAR initiative (Skilling for AI Readiness) through which nearly 18,000 CBSE-affiliated schools are already offering AI from Class VI onwards, with 15-hour modules for Classes VI to VIII, and 150-hour elective courses for Classes IX to XII. The CBSE has submitted a draft curriculum for review to the NCERT for "AI integration" across grades. This is in contrast with AI in higher education: A handful of universities introduced mandatory AI courses for science and engineering students this year.

One must ask: Why this rush for AI in schools? It is true that AI is set to make a great impact on our lives, and that the country seeks to "play a leading role in AI technologies and shape global AI standards". But is teaching AI to primary- and middle-school children necessary or sufficient for building such capability?

According to the government, SOAR helps to "bridge the digital divide" and creates opportunities for children "from rural areas or communities with limited resources". In a country where an overwhelming majority of children and teachers have never used any digital tools in education, it seems at best ironic and at worst callous to talk of using Al as a means of bridging the divide.

Often, the phrase "AI in schools" hides considerable confusion. Some mean a vaguely defined form of AI literacy. Some want increased use of AI tools in classrooms. Others mean the use of AI to enhance teacher "productivity" (for example, to prepare class presentations). Developers speak of personalised learning and assessment. Governments talk of using AI to track every child's academic progress. In such a situation, it is imperative that we separate informed use of AI tools from teaching AI to children.

In the present curriculum, middle school introduces three AI domains: Computer vision, Natural Language Processing, and statistical data. Class VII highlights the "innovative role of AI in fostering sustainability and societal development, highlighting key concepts like Sustainable Development Goals, systems thinking, and system maps". In Class VIII, children learn the "AI Project Cycle" and AI ethics. Class IX discusses mathematics for AI and generative AI, Class X supervised, unsupervised and reinforcement learning models, clustering and neural networks.

It is hard to understand how children would relate all this to the mathematics and science they are learning. How does a 12-year-old make sense of "fostering sustainability and societal development" or the use of system maps? These are notions that require considerable maturity. Consider this question from the Class VII AI handbook: Which SDG focuses on 'gender equality and empowering all women and girls'? (a) SDG-3 (b) SDG-5 (c) SDG-8 (d) SDG-10. If learning about AI is to help children develop a critical outlook on its use, exercises of this kind nullify that hope. Given how little success we have had so far on critical thinking in our science education, such expectations seem unrealistic.

The question of teaching AI in schools is not to be posed as one with a yes or no answer. It is about examining the educational purpose, the pedagogic means and assessment modes for doing so, and developing teacher capacity and resources for achieving the intended purpose. In the case of children in primary or middle schools, the psychology of children's learning is also critical. AI is both seductive and addictive. We need to be responsible while placing it in the hands of small children. We must keep asking ourselves: Are we being wise?

If learning about Al is to help children develop a critical outlook on its use, exercises of this kind nullify that hope. Given how little success we have had so far on critical thinking in our science education. such expectations seem

unrealistic

MILLENNIUM POST (P-6), 18 NOVEMBER 2025



The Silent Stress of Gen Z

Hyper-connected yet overwhelmed, Gen Z students are struggling with stress, anxiety and depression. Institutional reform, cultural change and collective empathy are now essential



DERICK H LINDQUIST

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The generation that has grown up surrounded by smartphones and social medianavigating global instability, economic uncertainty, and dimate anxiety—now finds itself at a mental crossroad

eneration Z encompasses those born between 1997 and 2012. The first 'digital natives'. Gen Z, has grown up with ubiquitous access to the internet and digital technology. While far more connected than any prior generation, many, nonetheless, report feeling isolated and disillusioned. Around the world, this generation is experiencing mental health challenges at alarming rates. In 2024, the World Health Organisa-

tion (WHO) reported that one in seven adolescents between the ages of 10 and 19 experienced a mental health disorder. In the U.S., a 2022 U.S. Census Burrau survey of 18-24-year-olds-done amidst the Covid-19 pandemic-found persistent feelings of nervousness or anxiety in 44 per cent, while 33 per cent reported feeling depressed or hopeless. In India, meanwhile, 63 per cent of young adults (aged 18-27) believe prioritising mental health is crucial to a happy life, according to the 2025 Burson Group report.

Such numbers illustrate how widespread mental health issues (and awareness) are among Gen Z. The generation. that has grown up surrounded by smartphones and social media-navigating global instability, economic uncertainty, and climate anxiety-now finds itself at a mental crossroad.

Higher Education Under Strain

Indian higher education has seen remarkable growth over the last few decades. Today, there are more than 1,100 universities and 45,000 colleges, supporting more than 40 million students. The pressure to succeed academically in this hyper-competitive system-where outcomes, not well-being, are what countis taking a toll. Many students report chronic stress, anxiety, depression, and emotional exhaustion.

Fortunately, there is growing recognition that mental health is an essential component of student development and success. In acknowledgement, the University Grants Commission (UGC) issued new mental health guidelines earlier this year, All colleges and universities have been instructed to establish dedicated mental health and wellness cells staffed by counsellors or psychologists. While such institutional reform is welcome, the fact remains that most higher



A resilient generation needs resilient systems—starting with emotionally supportive compasses

education institutes lack qualified mental health professionals, and the counselling centers that do exist are too often underfunded and understaffed.

Culture and Stigma

Despite growing awareness, particularly among the more urban and educated, deep-rooted stigma remains a major barrier in India for those struggling with mental illness. Those in need may avoid help for fear of being judged as weak or unstable. Even among Gen Z, understanding and empathy for mental health issues can be lacking. The 2024 Fiama Mental Wellbeing Survey, for instance, found 83 per cent of young adults believe mental health issues curry no shame. Yet, paradoxically, 81 per cent of the same respondents would feel ashamed, personally, if they had to seek out mental health care.

Importantly, the Mental Healthcare Act of 2017 gives Indians the right to access mental health care. In practice, however, implementation is weak, especially in educational settings where early intervention could make a major difference. Indeed, many parents and professors still view stress as a normal part of student life, dismissing rather than addressing any concerns that arise. In effect, many students recognise the need for help but feel compelled to stay silent. Economic Fallout

Research by Stanford psychologist Jamil Zaki indicates young adults today see less happy than those in middle age or old age. This contrasts with past gencrations, when young people were characteristically happier than either group. This is problematic. If a significant percentage of incoming university students are struggling with mental health issues, this will almost certainly affect retention, engagement, and drop-out rates, as well as future work, employment and

Mental health challenges can have an economic impact as well. According to Deloitte's 'Mental Health and the Indian Workplace' report, poor mental well-being costs Indian companies an estimated Rs 1.1 lakh crose (USD 14 billion) annually in lost productivity due to absenteeism, attrition, and other factors. When today's students enter the workforce, these cost estimates are expected to multiply. Universities that ignore psychological well-being risk not only failing their students but also weakening Indis's future economy.

Social Media and Technology

For Gen Z, social media provides both community and competition. Platforms like Instagram and Linkedln have become new arenas of academic anxiety, every success highlighted and every failure magnified. Dopamine-driven engagement-likes, comments, and new followers—exames repeated engagement. Users revel in validation and belonging from positive social feedback and wallow in disappointment, distress, and desensitisation from negative feedback.

Despite its many downsides, social media has given young adults a digital medium to talk about mental bealth. serving as a powerful tool for both support and awareness.

Educational content is widely shared, while hashtags like #MentalFiealthMatters or #AnxietyDianes have normalised conversations that were once considered tabou Increasingly, mental health professionals are also using social media and other technology to share guidance and provide remote services like tele-counselling.

Emotionally Intelligent Campuses

To address this ongoing crisis, India must rethink how it approaches student mental health. These five steps are

Integrate mental health into education-teaching emotional intoligence, self-regulation, stress management, empathy, and resilience alongside academics.

> Ensure colleges and universities have sufficient counselling staff to support their student body, at least one coursellor per 1000 students.

 Promote digital coping skills so students can navigate academic demands and social media challenges with more confidence and less risk of distress.

 Use data-driven monitoring to track student mental health trends and analyse risk, as may be seen, for example, in a first-generation student far from home.

 Make mental health outcomes a performance indicator of higher education institutions, just like research output or placement statistics.

A Collective Responsibility
Despite ongoing challenges, Gen Z student groups across India are creating peer-counselling peograms, neurodversity groups, mindfulness clubs, and mental health campaigns that push back against stigma. These actions and mistence that emotional well-being matters as much as grades are reshaping indian higher education. As educators, we must recognise and support this movement. ensuring students can succeed academically without sacrificing their own mental health.

Views expressed are personal

POLICY PERSPECTIVES

Rethinking Growth in a New Era

This year's Economics Nobel honours three scholars whose combined work explains why innovation thrives in some societies and stalls in others—and why institutions determine prosperity



SOVIK MUKHERJEE

JOHN FELIX
RAJ IS THE VICE
CHANCELLOR,
SOVIK MUKHERJEE
IS AN ASSISTANT
PROFESSOR OF
ECONOMICS, BOTH
AT ST. XAVIER'S
UNIVERSITY,
KOLKATA

The 2025 Nobel comes at a time when global growth is slowing, productivity gaps are widening, and technology is disrupting established production and employment structures

he 2025 Nobel Prize in Economic Sciences has been awarded jointly to Joel Mokyr, Philippe Aghton, and Peter Howlit for their transformative contributions to understanding the interplay between innovation, institutions, and long-term economic growth. Their collective work bridges the history of technology and modern growth theory, reinvigorating one of the most enduring questions in economics: "What sustains prosperity over time?"

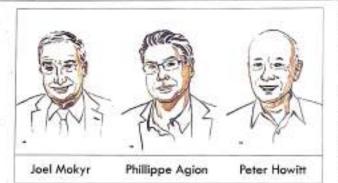
This year's Nobel recognises ideas that have shaped both policy and academic thinking. Mokyr's historical insights reveal how knowledge, culture, and institutions interact to create fertile grounds for technological progress. Aghion and Howitt's formal models of "endogenous growth" and "creative destruction" explain how innovation reshapes economies from within. Together, their work provides a framework for understanding how nations can foster innovation without compromising stability or inclusion a question central to 21st-century economic governance.

Joel Mokyr: The Historical Foundations of Innovation

Joel Mokyr's work offers a deep historical understanding of how societies sustain technological progress. His seminal books, The Lever of Riches and The Gifts of Athena, trace the emergence of modern growth to Europe's unique cultural and institutional setting during the Industrial Revolution. Mokyr argues that innovation stems not just from capital accumulation or inventors, but from practical knowledge – a codified understanding that can be applied to productive ends.

Mokyr's central claim is that economic growth depends on the interplay between knowledge and institutions. When societies value inquiry, reward experimentation, and allow the free flow of ideas, innovation flourishes. Conversely, when knowledge is suppressed by orthodoxy, rigid hierarchies, or monopolistic power, progress stalls. He highlights the importance of the "Republic of Letters," a community of thinkers and experimenters who advanced the Enlightenment's empirical spirit.

This perspective complements modern growth theory, reminding



The 2025 Nebel Price in Economic Sciences honeurs Joel Mokyr, Philipge Aghien and Peter Howitt for reshaping our understanding of innovation and long-term growth

us that technology requires cultural legitimacy, institutional support, and social trust to evolve. Mokyr's work suggests innovation policies must nurture education, openness, and public belief in progress. His research gives economics historical depth, showing ideas drive development, not just capital or labour.

Aghion and Howitt: Creative Destruction and Endogenous Growth

If Moleyr provided the narrative of innovations past, Philippe Aghion and Peter Flowitt gave it a mathematical structure. Their pioneering work in the early 1990s formalised Schumpeter's concept of creative destruction – the process by which innovations displace old technologies, creating progress and disruption. In their endogenous growth model, innovation is generated within the economy, driven by firms' incentives to invest in R&D.

Unlike earlier models, which treated technological progress as an external factor. Aghion and Howeltt showed that innovation responds to competition, policy, and institutional incentives. When firms compete to innovate, they drive growth; when they face barriers or monopolistic control, stagnation sets in. Their framework explains why growth can be self-sustaining in open, corapetitive economies but fragile in those that suppress change.

Aghion and Howitt also highlight innovation's darker side. "Creative destruction" implies displacement - workers lose jobs, firms fail, and sectors vanish. Their model offers a nuanced policy insight: societies must balance "innovation" and "inclusion". Governments encouraging competition should invest in social safety nets, education, and retraining to help individuals adapt to technological change. This dual emphasis on dynamism and protection shapes debates on automation. Al. and the future of work.

Why This Nobel Matters Today

The 2025 Nobel comes at a time when global growth is slowing, productivity gaps are widening, and technology is disrupting established production and employment structures. The laureates' insights are profoundly relevant to today's world.

Their work emphasises that innovation is not an automatic outcome of capitalism. It depends on institutional frameworks – laws protecting intellectual property, education fostering critical thinking, and markets rewarding risk-taking. Economic stagnation is not inevitable; it's often a result of institutional complacency.

The laureates' research helps polscymakers understand innovation quality. Not all technological change boosts growth. Some innovations increase market concentration, erode competition, or widen inequality. Aghion and Howitt's model highlights the need for policies promoting "disruptive innovation" over rent-seeking behaviour. Mokyr's historical lessons remind us that societies stifling dissent or neglecting knowledge systems risk long-term decline.

Their work invites a humanistic understanding of economics, Growth reflects how societies organise creativity, collaboration, and competition. The laurestes' scholarship restores the moral and institutional dimensions of economic progress, often neglected in technical models.

Implications for

Developing Economies

Mokyr, Aghion, and Howitt's insights are particularly significant for developing economies like India. India's digital transformation and startup ecosystem signal a shift towards innovation-driven growth, but institutional gaps remain. Weak IP enforcement, buresucratic inertia, and skill mismatches limit sustained technological progress.

Mokyr's perspective suggests India's success depends on cultivating a culture of openness and intellectual curtosity, valuing experimentation and tolerating failure. Aghion and Hossit's models highlight the need to encourage competition while supporting workers displaced by technological change. This means aligning innovation policy with education reform, vocational training, and digital literacy initiatives.

Their framework warns against complacency. Economies relying on imitation or low-cost labour without investing in indigenous innovation risk stagnation. As creative destruction accelerates through AI and automation, emerging economies mest position themselves as active contributors to the global knowledge economs not passive recipients of technology. Innovation as Continuous Renewal

The 2025 Nobel Prize in Economics is more than academic recognition—it's a timely reflection on the conditions sustaining growth in an uncertain world. Homouring Moley-Aghion, and Howitt celebrates a vision of economics that's dynamic interdisciplinary, and human. Their work underscores innovation 4th a continuous renewal process, shaped by competition, guided by institutions, and anchored in curiosity and openness.

In an age of technological charge, the laureates' message is clear propress depends on inventing new tools and cultivating societies using them wisely. This Nobel reminds in that the true wealth of trations lies in people's creativity and institutions empower them to imagine, experiment and rebuild.

Views expressed are persuad

SERVICE SPIRIT

the social media tracks,

it is arrowed that the era

profit drives people into action.

Everyone is in motion, either

physically or mentally, and in

such a way, lifestyle has been

shaped because of the revolu-

tion that takes place in tech-

onlogy and communication. If

the movements of the people

are looked at closely, one could

use the people after power and

authority fame, peofit, prosper-

ity, property, gold, padgets, and

women. While working towards

the above targets, they tend to

lose their moral sentiments and

etitical values. Since the above is

the order of the day, contrary to

the above, one could see a large

number of youth, both men and

women with high educational

qualifications, who have dedi-

cated themselves to attacking

the problems of the most mor-

ginalized in the society which

they consider as Gandhian

action and they never pen-

claim that they are Gondhi-

ens or non profit organizations

or doing social service. They

joined together not to work for

the people but to work with the

people who are most vulnerable

in the hill areas or in the plain

with the support of more indi-

siduals who run businesses and

industries, and they are con-

uriously supporting such a kind

of responsible service activities

not as chierty but in responsi-

lading. This is the uniqueness of

this group of people. The activ-

ities are coordinated not by a

highly educated person but by

an enlightened person. The

group called themselves Ruking.

which is nothing but the spend

of a bind

C PALANITHURAL

THE WAITER IS A FORMER PROFESSOR AND RAJIV GANDHI CHARFOR PANCHAYATI RAJ STUDIES. GANDHIGRAM BURAL INSTITUTE

The youth group comprises individuals who are very simple, action-oriented, deeply spiritual, not reliaious, and whose activities are mostly people-centric

Where Gandhian Values Still Live

Amid a profit-driven age, a quiet collective of young Indians is reviving Gandhian ideas through community-led action, moral courage and deep engagement with the most marginalised



WHAT MAKES KUKKU UNIQUE

- . Warks with the community, not for ity
- : Rejects labels like NGO or charity;
- · Revives Nat Talks for Inibal and Dalit children.
- Publishes children's literature and Gardhian works;
- · Restores traditional architecture, local arts, tribal water
- Operates through enlightered leadership—so hierarchy, no formal payer.

Recently on October 5, 1 seest to Gobichettipolarum in Brode district in Tarnil Nadu to open a very old best el meant for scheduled caste boys and girls. I have accompanied a hundredwar-old Gordhan Krithnanmei Jasanushan, who has been irreited to open the hestel, as she fought for land for tillers. She has distributed 12,000 acres of land to the landless poor in Tamil Nadir and 31,000 acres of land to the poor in Bihar. She

was with Vonobbe Bhave and Issu Frakash Nazawan. She is the impiration for this youth group. and hence she has been swited by this team to inaugurate the

It is to be moted that this bostel was created by a Bealmin by the name Lakshmana Adyan as per the advice given by Mahatma Gandhi, Lakshmata Awar and his father were free don tighten. When Lakshman: Airur was in juil, he escaped.

from prison and met Guadlet. Genellyi esked him to take upthe bartish welfare work and entrocted him to surrender to the police. After his release from prison, he started the hostel for scheduled caste and scheduled. who students with his morecy. He belongs to a very rich fam-He His family has been excommunicated as he kept a hariun. how in his house and allowed. the people from SC and ST to take water from his well. In this process, the has lost all his properry including his house. Someone has taken the house in an moction and handed it over tohun. He was elected as chairperson of the Kopichettipalayara-Municipality, and it was the same municipality that aboltabed manual scavenging first in the whole of India, only under his stewardship. Such revolutionary contributions have not been properly recorded, and hence, this Kukkin team has taken up the assignment, both

documenting the constructive activities of Lakshmana Alvar and continuing the harism welfare activities.

Against this backdrop, the Kukku team has been asked to take up the responsibility of renovating the hostel and rojuversiting the activities of Lukshmana Alvar by an industrialist who is known for philauthropy and trustership. The group has accepted and made it a point that it is not renovating the howtel for SC/ST boys and girls, but to continue the activities in the community also. Their activities are many. They are running a metholist school for the tribal students. Hyen the Gandhian institutions have given up the nothalim education system. They run a magazine for children which is called "Thumbi" They are taking steps to reverthe old architecture of our society and music through research. They create wells in the hill areas and provide water to the tribals. They run a mubbication to publish Gundhian hieratow which are in need in society. Kuku has drawn the attention of the public intellectuals, and they are being recognised

A series of activities him been planned, and expensivors. fine arts, music, sculyture, claymedeling, and sports have been invited to this school, and activities are schooleled contimeously for the whole year New it should become a highclass Ashram school. I have seen, these types of activities in the sillages others the Sri Aurobindo Society works 28 an outreach programme. Set Aurobindo Society vormully works with children, mostly the Dulits, but within a short span of time, duty hong transformation alcharge or attrack. behaviour, and partnersance of the students. By doug their kinds of activities with deldren, they attract the attention of women youth, and parents of the children, and in duc course, all become part of the terresformational activities that are being carried out in the village. In the same year, this im all group of weath is involved insuch activities through this boiled. Those who are in graryformational activities of the community in Threat Nedu know the kukha.

They are deeply involved in recreating the original lessel. edge in all the domains by maalling on on alternative path with alternative leadership for achievers sustainable development. The group has writers. impropers, musicians, armitiand craftspeople teerlong with the most marginalised group. While looking it they activities. behaviour, and amittale, evecould see in then the season transformational leadership. It anyone analyses the perspective of they worth groom, our could easily see that they are contexmaked Gandbrate. They are were simple, action-oriented. deeply spinited, not nilgious, and shore activities are should people-centric and not individual-centric. They never eye on familian but are from to focus un figurages, and money comes by seeing their actives in secsty. They built a trust threedly their sellies actions. Hence, they are necessarily new work and for transform dama's change among the most stangeralised. groups, and a because a model for many in their have not built My inditatories

Viewenpuncher pound

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TIMES OF INDIA (P-20), 18 NOVEMBER 2025

Why Harvard's In A Spot, And How It Can Get Out

It has cultivated a monoculture, leaving no space for conservatives and their ideas. It must begin by creating conditions for diversity of thought and freedom of speech

Vidyapati Gautam



Harvard has been in a hard place since the Trump administration barred it from hosting foreign students, and paused \$2.2bn in research grants for allegedly failing to protect Jews from hate crimes on campus while flouting

anti-discrimination laws. White House has also opened investigations into Harvard's govt-funded patents and its ties to China, threatening its accreditation, and demanding records of employees and international students.

While the university may wriggle free by striking a deal, which could be announced soon, how did it land in this spot?

Vanishing diversity | In the most recent faculty survey, only 10% identified themselves as conservative, which is an improvement from 5% in 2024, and 1% in 2022. Only five professors were registered Republican. Since political philosopher Harvey Mansfield retired in 2023, the Government (political science) department has not had a single conservative voice. When asked if Harvard should make a "concerted effort" to hire more conservatives, only 23% agreed.

Although Harvard has proposed establishing a centre modelled after Stanford University's Hoover Institution, a conservative oasis, it won't address the absence of conservatives from the university's everyday functioning.

No free speech | A 2024 internal study revealed rampant self-censorship at Harvard, with only one-third of the graduating class feeling comfortable discussing controversial topics. Remember, how the university axed Subramanian Swamy's courses in 2011 after he wrote an opinion piece protected by the free speech guarantees of the US First Amendment?

In its annual college free speech rankings for 2026, the nonpartisan nonprofit Foundation for Individual Rights and Expression (FIRE) ranked Harvard 245 out of 257 institutions, Last year, it stood last in 251st position. Reverse discrimination | In a 2023 judgment, US Supreme Court declared Harvard's race-conscious admission policy (affirmative action) illegal. The Civil Rights Act of 1964 bars organisations taking govt dollars from discriminating "on the grounds of race, colour, or national origin". Regardless, Harvard concealed the admission statistics of its incoming class by altering the formulas it uses to report data, and postponing the release of information on the current admissions cycle.

Lowering the bar | Harvard made SAT scores optional for admissions in response to the Covid pandemic, but then extended this for successive academic years. Some



ill-prepared applicants slipped through the cracks. Soon after, the math department offered a remedial course for freshmen who lacked "foundational skills" in high school math. Following an uproar, Harvard reinstated the requirements for the class of 2029 and beyond.

The switch was to promote equity as well. Activists have long condemned the tests for supposedly excluding minorities from academia. However, economist Raj Chetty and others argue tests provide the "fairest admission policy for disadvantaged applicants".

Existential question | There's also the philosophical question about the purpose places like Harvard serve. "Once institutions of cultural formation," writes Patrick Densen in Why Liberalism Falled, "elite universities have become purveyors of liberal anticulture, the deliberate and wholesale disassembly of a broad swath of cultural norms and practices in the name of liberation from the past."

Do they exist to push toxic narratives that revolve around the binaries of oppressor and oppressed based on gender, race, and religion, thereby entrenching permanent victimhood in certain groups and pathological hatred of perceived victimisers? What else sparked celebrations on campuses after Hamas slaughtered 1,200 Israelis on Oct 7, 2023? Why were educators gloating in the wake of the assassination of conservative activist Charlis Kiyk?

Trump's demands reflect nothing but his 'art of the deal' big think, going into negotiations with all-out aggressiveness. While Harvard president Alan Garber has rejected his demands, it is concerning that universities are being coerced into adopting a new definition of antisemitism that labels certain criticism of Israel as hate speech, which will further stifle open discourse on campuses. Whatever happened to "f" your feelings", a jibe conservatives threw at college anowflakes upset by some speech.

For Garber, Harvard could begin by affirming its commitment to open debate by endorsing the Chicago Principles on free speech. It may also weigh going the way of Hillsdale, a private college in Michigan that has consistently refused any state or federal funding because of the strings attached. Harvard can then pursue its pet agendas without

political interference. Or it can ensure its "sins are forgiven", as Trump said, by paying \$500mn in fines to support workforce development. The parties have already reached an advanced stage of negotiations.

Does Harvard truly believe it can prevail if the matter reaches the apex court? Will the justices let it violate their own earlier order against affirmative action? Garber should seize the opportunity to bring the necessary reforms he desires. Hire more conservative faculty, not to meet Trump's demand, but because all-round intellectual development requires it. Something better may emerge from it, certainly an improvement over the prevailing monoculture.

The writer holds an MPhil in International Politics from INW

शिक्षण व्यवस्था में लचीलेपन की जरूरत का संदेश देता है दिल्ली हाई कोर्ट का फैसला

यह मामला केवल अटेंडेंस का नहीं

दिल्ली हाई कोर्ट ने हाल में छात्रों को जो कभी स्वास्थ्य कभी परिवारिक या उपस्थिति और परीक्षा में बैठने के सामाजिक कारणों से नियत उपस्थिति अधिकार को लेकर एक ऐतिहासिक और नहीं बना पाते। भारतीय समाज में शिक्षा



शान्तेष कुमार

पर परीक्षा से वंचित प्राथमिकता देनी होगी। नडी किया जा सकता। उपस्थिति के तर्क । शैक्षिक संस्थान

एमिटी पनिवर्सिटी के छात्र सशांत रेडिस्ला करते रहे है कि कथा में फिविकल को आत्महत्या मामले से जड़ा है। कथित - उपस्थित से स्टडेंटस को जो ज्यावहारिक तौर पर कम उपस्थिति के कारण छात्र को और मूल्य शिक्षा मिलती है, वह देते हैं, जिससे उनके सेमेस्टर परीक्षा में बैठने से रोका गया था। ऑनलाइन या अनुपरियत रहने पर संभव करियर और भविष्य के शिक्षा का अधिकार । कोर्ट ने कहा नहीं। कथा की सहभागित कियार्थियों में मौके प्रभवित होते हैं। कि शिक्षा में, खासकर कानूनी शिक्षा नेतृत्व, दल भावना और आलोचनात्मक में उपस्थित के नियम इतने केंद्रोर नहीं सोच विकसित करती है, जो समाज के छात्रों के अधिकारों होने चाहिए कि वे छात्रों के मानसिक स्वारूय को हानि पहुंचाएं या आत्महत्वा जैसे कदम उठाने के लिए प्रेरित करें। इस का विशाल डिस्सा केवल परीक्षा आधारित और सबके लिए सलभ फैसले ने स्पष्ट कर दिया कि शिक्षा के अधिकार को तकनीकी नियमों के कारण वृस्तरा पक्ष । विद्यार्थियों और अधिभावकों अहम कदम है। नियमों में आवश्यक संशोधन करे।

संवेदनशील फैसला का अधिकार संवैधानिक गारंटी है। दिया। अदालत ने यह फैसला शिक्षण संस्थानों और नीति स्पष्ट किया कि किसी निर्माताओं को संदेश देता है कि उन्हें भी सात्र को कम शिक्षण व्यवस्थ में लचीलापन लाना उपस्थित के आधार होगा और लाजों के मानसिक स्वास्थ्य को

यह आदेश 2016 में लगातार इस बात की और ध्यान आकर्षित लिए उपयोगी नागरिक गड़ने में सहायक की रक्षा के साथ-साथ है। फिजिकल उपस्थित के बिना शिक्षा शिक्षा को लोकतांत्रिक ज्ञान तक सीमित हो जाता है।

वाधित नहीं किया जाना चाहिए। साथ हो, का कहना है कि सखत उपस्थित नियम कोविड का अनुभव । इस मुद्दे में पढ़ाई वर सकते हैं। UGC के दिशा-बार कार्डसिल ऑफ इंडिया (BCI) को कई बार ऐसे मेधावी छात्रों को भी परीक्षा तकनीकी शिक्षा प्रणाली पर भी बात निर्देश के मुताबिक, उच्च शिक्षा संस्थानी राष्ट्रीय शिक्षा नीति और तकनीकी प्रणाल निर्देश दिया गया है कि वह उपस्थित के से बाहर कर देते हैं, जो किसी मजदरी करना जरूरी है। कोबिड-19 के समय को अधिकतम 40% कोर्स ऑनलाइन के अनुरूप एक वेहतर व संतुलित जिल्ह या आकरिमक कारण से क्लास नहीं ऑनलाइन शिक्षा ने भले ही कुछ राहत मोड में संचालित करने की अनुमति है। प्रणाली तैयार करेंगे। फैसले का संदेश । कोर्ट का कह फैसला आ पाए। ये नियम उन्हें पढ़ाई और दी हो, लेकिन वह कक्षा में मौजूद रहने लेकिन, ये ऑनलाइन पाउयक्रम रेगलर



बनाए रखने की दिशा में

उन छात्रों के लिए राहत का सबब है आगे बदने के अधिकार से वंचित कर का असली अनुभव नहीं दे पर्द। तकनीकी कोर्स का पूर्ण विकल्प नहीं माने जाते।

पक्ष-विपक्ष

- क्लाश में मिलती हैं व्यावहारिक शिक्षा
- क्लाल में टीम वर्क की भावना क्रिवेलय होती है
- शिक्षा से विविव रखता है परस्त निद्यम

माध्यम पर निशंरता. शिक्षा का मानवीय और कर रही है।

संतरान की जरूरत । समाधान शावद इसी संतलन में है कि शिक्षा नीति में दोनों पर्धी की जरूरतों को जगह मिले। परीक्षा में बैठने का अधिकार हर छात्र का मूल अधिकार माना जाए, वहीं खात्रों को समय-समय पर फिजिकल उपस्थिति. सहपागिता और मल्य शिक्षा के महत्व के बारे में समझाया व ग्रेरित किया जाए। कॉलेन और विश्वविद्यालकों को चाहिए कि वे छात्रों की व्यक्तिगत परिध्यितयों को समझे और विशेष हालात में उन्हें राहत है।

बदलाव की जम्मीद । शिक्षा का उद्देश्य सिर्फ परीक्षा प्रस कराना नहीं, बल्कि विद्यार्थी का चर्चांगीय विकास करना भी सामाजिक पक्ष कमजोर है। इसमें शिक्षक की भूमिका और कक्षा का सीधा जुडाय बहुत अहम होता है। रेगुलर और डिस्टेंस क्वनीकी संधन जरुरी है, लेकिन शिक्षा कोर्स में का सामाजिक, मानबीय और अनुभव से स्ट्रडेंट्स के लिए जुड़ा पहलू थी उतना ही महत्वपूर्ण है. अटेडेंस अनिवार्य होती निसे बिना फिनिकल उपस्थिति के पूरा नहीं किया ज सकता। इस फैसले से लर्निंग व ऑनलाइन कोर्स में सुविधानुसार उम्मीद है कि ऐसे नए बदलाव आएंगे. यो छात्रों के अधिकारों की रक्षा करते हुए

(लेखक JNU के अंतरराष्ट्रीय अध्ययन संस्थान में प्रफेसर है।

बच्चों की भावनाओं को समझें टीचर

बचपन में हम सब अपने टीचर से डरते थे। डांट और पिटाई का डर, दूसरे बच्चों के सामने बेइजाती होने का भय। आज के बच्चे



श्रद्धा वशिष्ठ

भी इससे अछ्ते नहीं। इस हर के कारण न केवल हॉपआउट के केस बढ़ रहे है, बल्कि कई बार स्टूडेंट्स की आत्महत्या के पीछे भी यही मुख्य वजह होती है। हालांकि इसके लिए टीचर

नहीं, उनकी टेनिंग जिम्मेदार है।

सोशल इमोशनल लर्निंग । शिक्षकों के प्रशिक्षण में जरूरी है सोशल इमोशनल लर्निंग। इससे विद्यार्थियों की भावनाओं को समझने में मदद मिलती है। दुनिया के कई देशों में इस पर रिसर्च चल रही है और इस तरह की ट्रेनिंग को स्कूली शिक्षा में लाने के प्रयास शुरू हो चुके है। भारत की बात करें, तो 2005 में कर्नाटक के चामराजनगर और बेल्लारी में नौ जनजातीय कल्याण विद्यालयों में स्टडी की गई थी।

शिक्षकों को ट्रेनिंग । सोशल इमोशनल लर्निंग के अच्छे परिणाम तभी मिलते हैं, जब इसे लगातार और सही तरीके से लागू किया कॉमन रूम



जाए। इसके लिए शिक्षकों को इस तरह प्रशिक्षित करने की जरूरत है कि वे रोज की पढ़ाई-लिखाई में सोशल इमोशनल लिनेंग के सिद्धांतों को शामिल करें। जब बच्चे कक्षा में खुद को सम्मानित महसूस करते हैं, उन्हें लगता है कि उन पर ध्यान दिया जा रहा है, तब वे न केवल पढ़ाई में बेहतर प्रदर्शन करते हैं, बल्कि एक संवेदनशील और जिम्मेदार नागरिक भी बनते हैं।

बेहतर माहौल का निर्माण । साल 2024 में संयक्त अरब अमीरात में किए गए एक

अध्ययन में यह जांच की गई कि शिक्षकों की इमोशनल इंटेलिजेंस किस तरह छात्रों की पढ़ाई और उपलब्धियों को प्रभावित करती है। यह रिसचं 6ठी से 12वीं कक्षा तक के 109 छात्रों पर की गई थी। नतीजों से स्मष्ट हुआ कि जो शिक्षक अपनी भावनाओं को समझते हैं, वे बच्चों को नियंत्रित करना जानते हैं, दूसरों के प्रति सहानुभूति रखते हैं और वे अपने छात्रों के लिए बेहतर माहौल तैयार करते हैं।

इमोशनल डिबेलपमेंट । नई शिक्षा नीति में स्पष्ट किया गया है कि शिक्षकों को इस तरह से प्रशिक्षित किया जाना चाहिए, जिससे वे विद्यार्थियों में आत्मनियंत्रण, सहानुभूति और सहयोग जैसे गुण विकसित कर सके। शिक्षकों से उम्मीद की गई है कि वे छात्रों की भावनात्मक जरूरतों को समझेंगे। काउंसिलिंग और सर्वे। नीति के मताबिक.

शिक्षकों के लिए जिला और राष्ट्रीय स्तर पर विभिन्न रूपों में ट्रेनिंग देने की व्यवस्था की जाए। सोशल इमोशनल लर्निंग को प्री सर्विस टीचर ट्रेनिंग का हिस्सा बनाया जाए। शिक्षा केवल पढ़ना और पढ़ाना नहीं, बल्कि जीवन को समझना है।

TRANSLATING RESEARCH

Ideas that travel: India's deep science moment

RDIF promises transformative innovation, but results hinge on strong lab-tomarket systems and industry partnerships

GURUCHARAN GOLLERKERI

the Government of India's decision to establish the Research Development and Innovation Fund (RDIF) under the Anusandhan National Research Foundation (ANRF) marks a historic inflection point in India's scientific journey. With a corpus of Rs I lakh crore to be deployed over six years, the RDIF is far more than another funding scheme - it signals the country's determination to de-risk private investment in research and innovation. and to position India among the top five nations in frontier technologies within the coming decade. But money alone does not make innovation. The challenge is to convert this funding moment into a deep-science transformation-to build an ecosystem that can translate India's expanding research base into usable technologies, new industries, and global competitiveness.

India today spends just 0.64% of its GDP on R&D, and the private sector contributes only 36.4% of that. In advanced economies, the share of private investment in research routinely exceeds 70%. The RDIF explicitly seeks to correct this imbalance by "de-risking" corporate participation in R&D through co-funding, fiscal incentives, and strategic partnerships. Yet, the success of this initiative will depend on more than capital allocation; it will hinge on our ability to build institutional translational capacity.

Three global blueprints show us how. Each underscores a vital truth: innovation succeeds when discovery and deployment are structurally connected.

The Belfer study makes an uncomfortable observation: across the world, even top universities produce enormous scientific knowledge, but little of it translates into practical technol-ogies. The gap – the "valley of death" –lies between TRL 2(proof of principle) and TRL 6 (validated prototype). Most academic research stops well before that bridge is crossed. India, too, faces this missing middle. Our labs teem with creative talent, yet few discoveries evolve into products, patents, or ventures. What is needed is a translational infrastructure-proof-of-concept (PoC) funds, entrepreneur-in-residence programmes, and early engagement with industry - that can push science from curiosity to commercial readiness. The RDIF can serve as the backbone of such a system if it explicitly earmarks a part

of its corpus for university-based translational accelerators.

RISE Europe's Sciencepreneurship Playbook examines how European universities created "lab-to-market" cultures by re-engineering incentives, not just budgets. Faculty are encouraged to form spinouts. Research groups are aligned with industry clusters. Translational Key Performance Indicators (KPIs) - not just publication counts are used to evaluate performance. Most importantly, universities build shared testbeds and invite corporate partners to co-locate on campus. If India's RDI framework is to catalyse private participation, co-location and co-creation



must replace transactional collaborations. Industry should not merely sponsor research; it should work alongside researchers from the outset.

Imagine if every RDIF-supported university established an Industry Translation Council, composed of R&D heads from the top 20 companies in its region. Such councils could guide PoC investments, open testbeds, and serve as early customers for lab-developed technologies. That is how public money crowds in private innovation. The US National Centre for Advancing Translational Sciences (NCATS) offers a less glamorous but critical insight: successful translation depends on process rigour NCATS argues that reproducibility, milestone tracking, and cross-disciplinary teams are essential to avoid waste and accelerate impact. In India, where research often operates in silos, this is a wake-up call. RDIF funding must come with translational performance dashboards - tracking cycle times, success probabilities, and readiness levels.

The government has rightly declared that India aims to be among the top three to five nations in five to ten key technologies. The following stand out as deep-science frontiers where India can lead if the RDIF catalyses coordinated public-private investment: (1) Semiconductors and Electronics Manufacturing, (2) AI, Robotics, and Advanced Computing, (3) Green Hydro-

gen and Sustainable Energy Materials, (4) Life Sciences and Precision Health, and (5) Advanced Materials, Quantum Technologies, and Space Systems.

Measuring outcomes anew

To truly transform India's research landscape, universities must evolve from knowledge producers to impact platforms. This means three structural shifts: (1) Dedicated translational units each research university should host a "Sciencepreneurship Studio" with PoC funding, IP management support, and access to industry mentors; (2) Joint R&D labs-universities and corporates should operate shared laboratories with co-funded researchers and open IP models; and (3) Founder-friendly policies - faculty should be allowed sabbaticals to launch spinouts; IP ownership should be equitably shared; venture participation should be legitimised as an academic outcome. Private industry must seize this opportunity.

The government's de-risking signal is clear: for every rupee invested in national R&D, private capital will be matched and protected through public support. But this should not become another CSR token. Companies must view R&D partnerships as strategic assetsways to build proprietary technology, secure supply chains, and achieve global competitiveness. Corporate venture arms, R&D consortia, and innovation challenges under the RDIF umbrella

can accelerate this shift.

India's innovation problem is not one of talent or ideas; it is one of translation and trust. Researchers rarely trust the private sector to value science; industry doubts academia's speed or reliability. We must redefine success. Instead of measuring "how much we spent," we must measure "how far ideas travelled." These are the metrics of a confident. innovation-driven nation. The RDIF represents a once-in-a-generation opportunity. With Rs 1 lakh crore at stake, India can finally align its research ecosystem with its economic ambitions. But to do so, we must move from funding research to translating research; from grant disbursement to outcome orchestration. If we combine Belfer's entrepreneurial model, RISE Europe's ecosystem pragmatism, and NCATS's process discipline, and weave them into the RDIF's fabric, we can create a powerful national translational engine.

This is India's deep science moment, which must become a movement where every rupee of research leads to innovation, every innovation leads to industry, and every industry contributes to national self-reliance. Only then will Viksit Bharat be not just a slogan, but a scientifically grounded, innovation-powered

(The writer is Director, School of Social Sciences, Ramaiah University of Applied Sciences) 50119/6

MANY VOICES

Why engage with M(Other) tongues?

The enduring feminine metaphors of language remind us that identity is layered, evolving and enriched by the many tongues we speak and inherit



SHRUTT JAIN

THE WRITER IS A PROFESSOR OF GERMAN LANGUAGE LITERATURE & CULTURAL STUDIES, CENTRE FOR FOREIGN LANGUAGES AT O.P. JINDAL GLOBAL UNIVERSITY

The term "mother tongue" persists not because it suggests a singular origin, but because, through its association with the maternal, it inherently emphasises plurality and indusivity

are you ever been asked what your mother tongue st? Did you feel buffled because you couldn't quite identify which language to call your mother tongue? The question, though seemingly simple, is increasingly difficult to answer in today's multilingual, multicultural world. What does it really mean to have a mother tongue? Is it the language spoken by your biological mother, the language you learned first, or does it depend on your aurroundings, your family, your workplace, or the communities you belong to?

Rabindranath Tagore is famously

known to have compared the mother tongue to "mother's milk." His analogy captures the intimate and formative bond between language and identity. In times when languages are dying and the hegemony of certain languages prevails under the diktat of the neoliberal market, the call to preserve our respective mother tongues becomes urgent. As linguistic diversity diminishes, safeguarding mother tongues is not just about heritage but also about resisting cultural homogenization and reclaiming voices that risk being silenced in a globalised world. Yet, in today's fluid linguistic landscape, where people often grow up speaking multiple languages or adopt new ones due to migration and globalisation, the singularity of the metaphor feels increasingly unconvincing. Many scholars argue that the term 'mother tongue is a relic of a simpler past, illstatted to modern realities. After all, one's primary language need not always be the language of the biological mother. In a world where caregiving roles are diverse and multilingualism is common, the question of which language truly constitutes one's 'mother tongue' becomes even more clusive. Alternatives like 'dominant language, 'first language,' or 'home language have been proposed, yet now fully capture the complexity of our relationships with the languages we speak.

Yet, despite its limitations, the term 'mother tongue' persists across cultures—as matri bhasha in India, Materysysche in German, lengus materna in Spanish, and Mamelosko in Yiddish, Why does this enduring association between language and the ferminine termain so deeply ingrained?

The metaphor of the feminine as speech can be found across various



The meternal link to language highlights openings and connection, showing how multiple tongues expend and enrich our understanding of the world

ancient world philosophies. In ancient Fgypt, the goddess Maist, wife of Thoth, the god of wisdom, was revered as the goddess of rhetoric and order. Similarly, in Sumerian and Akkadian tests, goddesses like Inanna (or Ishtar) were associated with wisdom, creativity, and speech.

This symbolic connection between the feminine and language is particularly significant in Indian philosophy. The Rigwels proclaims, "Speech was and is the Mother." Here, the goddess Vac Devi is celebrated as the embodiment of speech and sound, the origin of all life. Etymologically, Var (Sanskrit for "speech" or "word") shares connections with the Latin vox and its modern counterparts in Romance languages, such as votce, vitx, and vox.

Vac Devi is later associated with Saraswati, the river goddess whose attributes include wisdom, speech, and the arts. Saraswati, unlike fertility goddesses, is linked with intellectual creativity rather than physical procreation. She represents a maternal force that transcends traditional mothershood—a mother beyond mothering. Vac Devis lineage extends to Tara and Kali, figures that also symbolise the ferminine as speech and tongue, respectively.

Kali, with her protruding tongue, exemplifies primal sound and the fiery essence of longuage. The 51 skulls in her garland are said to represent the letters of the Devanagari script, signifying her role as the originator of speech. Her soo

nography could be seen as reflecting the orgoing struggle for ownership of words and the quest for self-expression within patriarchal structures.

The Rigveda divides speech into four levels Para (divine, unmanifested consciousness). Parhyson (intellectual consciousness), Madbyama (mental consciousness), and Vutkhari (audible speed). These levels emphasise that language operates on multiple planes, from the transcendent to the tangelle.

Om Prakash Singh, in his book Commanication: Theory and Practice (2016), translates Para as the divine knowledge of the Lightning Spirit and Apara, under which the other three levels, namely Pasityonit, Mashyoma and Vaikhori, are subsumed, as "piscental knowledge"—a connection to the fetal state of pre-natal

French philosopher Luce Irigaray and biologist Hélène Rouch, in their conversation published in fe, Tu. Nous: Toward A Culture of Difference (1993), discuss the semiotic value of the placenta as a biological third space. They describe it as a space that neither belongs solely to the child nor the mother but arises to accommodate the other setth-out defence mechanisms. The placenta thus represents a unique socio-symbolic space where coexistence and difference are celebrated—a profound metaphor for the relationship between language, self, and other.

This connection between the feminine and language underscores how the maternal, reimagined, allows us

to see tradition not as rigid or hierarchical but as permeable to reinterpretation and renewal. Anu Aneja, in her book Disembodied Mothers: Re-writing the Maternal Metaphor through Goddess Iconography (2016), emphasises that the maternal symbolites open apatial arrangements, where others exist freely alongside one another.

The German thinker Johann Wolfgang von Goethe adds another dimension to this idea. Goethe, a polyglot and advocate of the 'Eternal Feminine'. believed in the plurality of languages as a force of unity. Goethe believed that nature itself was a material representation of language and that by learning foreign tongues, we come closer to understanding ourselves. "Those who do not know foreign languages know nothing of their own," he famously remarked. It is no wonder that Goethe gave the world the idea of Weltliteratur-a literature of interconnectedness based on respect, appreciation, and tolerance for different cultures. He reminded us that we do not live in isolated compartments of national, monolingual identities but as global

In conclusion, the term "mother tongue" persists not because it suggests a singular origin, but because, through its association with the maternal, it inherently emphasises plurality and inclusivity. Language, much like the maternal role, is not confined to one form or one origin, but is an everevolving, inclusive force that accommodates diversity. Rather than asking, "What is your mother tongue?" one should consider asking, "What are your mother tongues?" This shift reflects the idea that language, much like motherbood, is not a singular experience but a space that embraces multiplicity. In embracing our "mother tongues" in their plural form, we recognise that our identities are shaped not by a sin-gular language, but by a rich tapestry of linguistic influences that come together to shape our worldstew. The maternal association with language underscores the idea of connection, expansion, and openness, reminding us that our communication and understanding of the world are not limited. + but enriched, through the plurality of languages we speak.

Views expressed are personal

Switching Jobs: Where's the line between strategic & premature?

Consistency Builds Strength, Variety Builds Capability And Knowing When To Change Routines Prevents Plateaus

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If a workplace strengthens your skills, confidence and sense of direction, stay and build on them. If learning stalls, move lineard a place where growth restarts. Careers aren't ladders anymore. They're learning journeys

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THIS TECH GIANT'S INDIAN ENGRS ARE REINVENTING STORAGE FOR THE AI ERA

The hardest problems in digital storage are being cracked in India and transforming Al workloads for firms

Akhil George & Suill John | Tvs.

www.global technology.companies sinas quietly yet as deepby inside the world's digital plumbing as NetApp. Its storare systems underpin everything from banking and relegant to research labs and national infrastructure. In India alone, its technolugs powers the conscloss firehose of done flowing through UPI, where every top, transfer and sertlement programs three distinct layers of data extress bunks, apps and NPCL NotApp's storage platforms sit hemouth much of that invisible machiners a fact that beins explain why the company has repeatedly been ranked India's number one in expernal storage and all-firsh arrays. But behind that market presence is another shory that CEO George Kurian insists is equally important, the engineering muscle that India contributes to NetApp's most strategic innovations.

Kurism was in Bengaluru soon after NetApp's Insight conference in Las Vegas, where the company unweiled a suite of major announcements centred on Al-ready data infrastructure. Central to those ofvances is a new system architecture called AFX, which combines extreme-performance storage with GPDs in that data can be processed in place rather than copied repeatedly peross applications. It is a shift: Kurian described as "insanely faster." because it climinates the traditional maze of six or more redundant copies created during various All workload steps like annotation. tagging, governance and training.

AFX works alongside what NetApp now rulls its All Data Engine, n new stack that includes an active metadata engine, built-in security and guardrails, and a data transformation layer. Together, they allow enterprises to work on original data directly at the storage layer. "Many times, what you see with Al. is that you want to take the original data coming out of enterprise systems



and transform is to Al-ready data." Kurian explained. "Now with our latest tech you can implement guardrasis, controls, annotations. tagging-all without having to cre-

ate secondary copies." That means both training and inference become dramatically faster, strice you don't have to make moles of petabytes or exabytes of enterprise data. It also makes it more accurate and easier to govern.

India's outsized role

The scale of what India contributed to this is striking, "We have 160 engineers working on it and 119 are based out of India," Kurian said. NetApp VP and engineering head Vasanthi Ramesh paded that the work spanned multiple layersfrom Ontap (NetApp's storage operating system) to new services to the Al Data Engine itself-reflecting how deeply embedded India is in

NetApp's core architecture decisions. Ramesh explains that this complex engineering effort mattered because traditional storageon-compute designs only made sense when Al workloads were small and prodictable. But with LLMs hitting storage with enormous, parallel 1/O remoests, the old coupling simply broke. "The whole thing about AI today is that the access you need to your data should be really fast," she said. "The numher of times the GPU is hitting your storage has increased exponentially"

The answer that NetApp's enginears came up with was disaggreguest architecture-splitting compute and storage so that compute could scale independently. That reguired rewriting deep layers of No-(App's storage stack, creating a metadata engine capable of handling wast indexes (essentially creating a bot of basic info about the data held.

in a storage solution), and building systems for vector embeddings so that data could be fed efficiently into model training pipelines.

We are cutting short that big pipeline that used to be built. We give one box through which you can move data very fast, classify it, create metadata, generate embeddings, and scale performance as much as you want. And that performance talks directly to your Nyidia GPUs."

Kurian sees the India team's role in this as part of a broader postern. There's a lot of good core innevation happening in India," he said. pointing out that the compus has grown from 3,000 employees during his last visit over a year ago to mear-Iv 3,500 now. The engineering work is not only scale-heavy but deeply bechnical-embedded systems, storage internals, AL/ML, generative AL processing and real time inference. Rumesh noted that the metadata

engine, composable architecture, near-compute design and zero-fateney inferencing were "big trends" in Gon Al Infrastructure, and India delivered on all four

Fortage links these innovations to the real-world surge in AI adoption worldwide, "We help organisetions get ready for AI," he said. That readiness hinges on organising enterprise data-something few companies have historically managed well. NetApp now sees rapid giobal uptake of these capabilities. We had about 250 customer wins in the last reported quarter," he said, "up from 50 before." Enterprises are building Al centres of excellence, deploying common platforms and ensuring models comply with legal and data-governance controls. Healthcare and life sciences are currently the most advanced, he added, because their data tends to be better structured and historically machine-readable.

Cyber engineering prowess

All is not the only front where India plays a decisive role. Cybersecurity has become the company's other major pillar of innovation. Rarian described a landscape where threat actors are constantly trying to get to your data, making storage the most logical place for defence. NetApp now embeds intelligence engines directly into its operating systems to detect ransomware "vtrtually instantly" Ramesh revealed that the core of NetApp's ransomware protection service is built in Hengaluru: "We have a hunch of date scientists who work from Bengaluru building these Al models." The system draws from a constantly updated threat landscape database and uses ML models to generate signatures and detect patterns of malirious behaviour.

Beyond its technical depth, the India team siso plays a growing leadenship role. Ramesh pointed out that India now has a very large leadership team, ranging from directors to senior managers, and a strong representation of women in the technical workforce. The company has also invested in India's future talent pipeline, dosigning a data intelligence curriculum that is now part of Nasscom's Future Skills platform with 1.5 million learners. It has also mentored more than 120 startups globally through its accelerator programme, a growing portion of which are now India-focused

NEXUS OF GOOD

New Model for Learning

Prayoga Institute of Education Research, a 2025 Nexus of Good awardee, is redefining how India learns through experiential science programmes, teacher-researcher models, and research-driven social impact



ANIL SWARUP

THE WRITER IS AN AUTHOR AND A FORMER CIVIL SERVANT

Prayaga presents a replicable model of how education can uplift communities while nurturing India's next generation of scientists and innovators

rayona Institute of Education Research was one of the proud awardees of Nexus of Good Annual Awards, 2025. It has emerged as a beacon of innovation. In a world where education and innovation are the pillars of society's development, Prayoga stands as a unique private institution with a mission to serve a public cause. Recognised by the Department of Scientific and Industrial Research (DSIR), Government of India, Prayoga's work reimagines how India can teach, learn, and inspire.

At its core, Prayoga focuses on creat-ing scalable, adaptable, and open-source solutions that enrich learning experiences, foster scientific inquiry, and transform teachers into reflective, innovative teacher-researchers. Its work combines rigorous research with practical interventions, ensuring that educational innovations reach the students and teachers who need them most.

Kriya: Learning Science by Doing Science

Among Prayoga's many institutives, Kriya stands out as a transformative experiment in experiential learning. The program has already reached more than 11,500 students across 100+ schools in Karnataka, rekindling the joy of discovery among

Through carefully designed experiments and contextual learning activities, Kriya helps children connect what they learn in textbooks to what they observe in life. The program's success extends to rural, economically weaker sections (EWS) and private schools, creating a lasting impact on the education ecosystem.

The impact has been profound: Students who once approached science with hesitation now explore it with excitement, while teachers gain confidence in facilitating experiential learning of science.

Azveshana: Nurturing Scientists for the Nation

If Kriya sparks curiosity, Anveshana nurtures it into inquiry and research. This initiative encourages high school students to take on independent research projects - introducing them to the process of questioning, hypothesising, experimenting, and analysing.

Anvestiana is remarkable not just for what it teaches, but for whom it reaches. Many of its participants, being first-gencration learners, often encounter scientific and laboratory instruments for the first time. Guided by Prayoga's mentors and researchers, these students have produced work of exceptional quality.

The program's transformative impact is evident in the achievements of its 110



Prayage's Kriya and Anvestiana pragrammes show how experiential learning and student research can reshape the nation's scientific future

young researchers. Students, including those from tribal and rural backgrounds. have authored research articles published in international journals, and have won prestigious awards for innovation and research at national forums. 11 perrreviewed research articles in international journals is no small feat! The next year, the program will be scaled further, extending its reach to more schools and nurturing the next generation of young scientists across India.

I had the privilege of witnessing the Anveshana Project Showcase for the 2024 batch. Watching students - from tribal and rural backgrounds -- confidently explain their research projects was deeply moving. I am proud to share that these tribal and rural girl students are now published authors - it is possibly the first time that a scientific research article authored by Indian high school students is published in a Scopus-indexed journal by Elsevier.

Looking ahead, there is also the exciting possibility of incubation within Anveshano, where students could explore ways to develop their research projects into larger solutions or prototypes. The 37

research projects executed at Prayona have far-reaching implications on human society and scientific progress. Coupled with a potential Centre for Excellence, this approach encourages innovation, experimentation, and the early development of entrepreneurial thinking among students. Empowering Teachers:

Transforming the Transformers

Sustainable reform in education begins and ends with teachers. Prayoga recognises this truth and has built one of the most comprehensive teacher empowerment models in recent years.

Over a five-year engagement pro-gram, teachers are trained, mentored, and continuously supported to evolve into teacher-researchers. The process includes residential workshops, dialogues with educationists and scientists, and ongoing mentorship by the Prayoga team. Teachers plan, execute, and reflect upon their classroom practices — learning to inno-vate within their own contexts. What sets this program apart is that Prayoga goes a step beyond and assigns mentors to the teachers, who handhold teachers through their transformative journey.

What sets this program apart is the personalised handholding; mentors accompany teachers through every stage of their transformative journey, ensuring that new teaching methods are not only learned but internalised. When teachers grow confident and reflective, the ripple effect on student learning is profound. Prayogas model provides a replicable framework for how teacher development can be both sustained and scalable.

Leadership with Vision

At the heart of Prayoga's success is the vision of Dr H5 Nagaraja, a respected educationist whose decades long work has been devoted to improving the quality and accessibility of education in India. His philosophy is simple: education must empower both the learner and the teacher.

The institution's Advisory Board comprises eminent figures who provide strategic guidance to Prayoga's mission. Chaired by Dr MN Venkatachaliah (Padma Vibhusban), former Chief Justice of India, Prayoga remains at the forefront of educational innovation, seamlessly integrating research, pedagogy, and social impact. Infrastructure and Expertise

Prayoga's work is unchored in a stateof-the-art facility spanning 1.5 acres, with a 30,000 sq. ft. working area dedicated to thematic science and education research. The campus hosts a team of Education Researchers, Scientific Researchers, Subject Experts in Mathematics and Science. Field Academic Staff, Program Management Professionals, and Data Science and Pedagogy specialists. This combination of advanced infrastructure and expert personnel creates an enabling environment for research, innovation, and meaningful social impact.

The Way Forward

India's education system stands at a crossroads. On one side lie challenges of quality and equity; on the other, immense opportunities born of innovation and intent. Institutions like Prayoga show us what is possible when research and prac-

tice meet purpose.

Its efforts in transforming schools, empowering students, fostering scientific inquiry, and nurturing teachers are reshaping the future of education in India. By embracing experiential learning, researchbased pedagogy, open-source solutions, and incubation opportunities, Prayoga exemplifies the transformative potential of education research and social impact. Let us collectively support Prayoga in its endeavour to enrich the lives of students, teachers, and communities across the nation and beyond.

Views expressed are personal



Intellectual Arrogance: The New Professional Weakness

DR SANKU BOSE

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IN A WORLD WHERE MACHINES CAN LEARN CONTINUOUSLY, THE ABILITY TO REMAIN **OPEN TO LEARNING** HAS QUIETLY BECOME THE STRONGEST DIFFERENTIATOR

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Let kids embrace Al at their own pace

Class III is too early a stage to have artificial intelligence as a mandatory subject



AVUIT PATHAK SOCIOLOGIST

RTIFICIAL intelligence (AI) is here, and it seems that you and 1 will have to pregotiate it today or tomorrow. Yet, it unsettles me that even students of Class III (hardly nine-year-old) have to learn AI as a mandatory subject. The Central Board of Secondary Education (CBSE) has decided to introduce AI for all students from Class III onwards from the 2026-27 academic session.

In order to go deeper into the meaning of this move, or what the Ministry of Education regards as "one of the significant curriculum overhauls in modern history", it is important to reflect on two issues relating to the rhythm of life, technology, culture and pedagogy.

To begin with, it is important to understand that in these hyper-modern times, we are almost compelled to accept every new piece of technological innovation - and quite often, without the slightest ambiguity. However, this constraint is often transformed into a form of seduction. It is not uncommon to see even threeyear-old kids 'playing' with smartphones; and the resultant addiction to the screen is making it increasingly difficult for them to look at the open, vast sky, see a tree, notice a bird flying or feel the rhythmic play of a flower and a butterfly. Yes. technological gadgets seem to have colonised their souls.

As we normalise this invasion of technology in almost every domain of life, it is, therefore, not surprising that the CBSE too foois that even children of Class III should not lag behind,



RHYTHM: Schools should not discipline kids in a way that they tose their simplicity, curiosity and playfulness, is too.

and must begin to learn the fundamentals of AI through 'playful/interactive' methods'.

Moreover, who can say 'no' to AI, particularly when the techno-corporate elite and the market-driven advertising machinery keep reminding us of its 'revolutionary' potential? And possibly, many ambitious parents also think that in this fast-changing world, if their children do not feel comfortable with AI as early as possible, they will lag behind and fail to cope with newly emerging fields like data analysis, robotics and design impovation!

However, amid this technoseduction, we should not forget that not everything is necessarily promising about the use of Al in the realm of education. Professors of leading IPTs and IIMs have expressed serious concern over this trend. Recently, Prof Ranjan Banerjee - the Director of HT-Delhi -reminded his students that "an overreliance on AI may hinder essential learning outcomes such as critical thinking skills." Likewise, in HMs, as a professor has observed with deep Let children develop their interest in the larger world by playing with the atlas, the globe and the art of storytelling.

anguish, some of the students are asking AI platforms to prepare even field studies.

Indeed, as these otherwise bright students are tempted to surrender their own critical/creative thinking and produce AImediated assignments, they deprive themselves of what makes them humane: their subjectivity, their agency, their experiential knowledge, their 'imperfection', their hard intellectual labour, and above all, their right to make mistakes. Accept it: Beyond the excessive hype over AI lies a brute fact. It can, as Israell historian Yuval Noah Harari has cautioned us, create a situation in which humans might lose control over their own invention. Isn't it frightening?

Furthermore, as a teacher, I often ask myself: What do the children of Class III actually need for their cognitive, psychic aesthetic and intellectual development? Is it AI or something else? Before everything. let us accept that without altering the very meaning of schooling, no technology can arouse the child's interest in active learning. Let schools not look like prisons; let schools not 'discipline' our children in a way that they lose their simplicity, curiosity, wonder and playfulness.

Of course, they sught to learn a bit of elementary mathematies. They need to learn how to read, write and articulate themselves. It is equally important for them to learn how to sharerelate to others and work in a group. Let them learn elementary arithmetic through everyday activities that demand addition, subtraction, multiplication, division and some sort of quantification or measurement.

Let them develop their interest in the larger world by playing with the atlas, the globe and the art of storytelling. Let them see, touch, smell and read good/colourful books. ovolve a taste for reading. Let them develop the faculties of observation and reasoning. Let them do things with their hands and legs. And above all, let them play and sharpen their physical/kinetic energy. Let them look at a flower, a tree, a river, and experience wonder and mystery. And this sort of sensitivity, we should not forget, is the highest form of intelligence. I have, therefore, no hesitation in saying that the students of Class III do not need AL Instead, they need a pedagogic likes the milieu Rabindranath Tagore, Mahatma Gandhi and Jiddu Krishnamurti experimented with

Think of the burden of knowledge these tender children are asked to carry: English, science, civics, mathematics, computer applications and now Al! Why do we want to rob them of their childhood? Why don't we realise that if in the formative years, they are allowed to evolve with love and care, and inspired to learn/unlearn without the fear of lagging behind. they will eventually evolve as intellectually awakened, emotionally fulfilled and aesthetically sensitive citizens?

It will not be difficult for them to retain their creative surplus and critical thinking. And as they grow up, it will be possible for them to decide when and how to use AI, and most importantly when to say 'no' to it, and assort that the meaning of being humane is to be a master (not a slave) of technology.

Is anybody from the Ministry of Education or the CBSE listening? SSAM TRIBUNE (P-6), 21 NOVEMBER 2025

IITG invention

he invention of a groundbreaking solution to address fuel adulteration and oil spill cleanup by researchers at IIT Guwahati is something that has done the State proud. Indeed, facilitating worldclass research and innovation should be central to the functioning of our higher institutions of education. If one were to look at top-notch global institutions, such pioneering research has always been associated with them. Unfortunately, we still have a lot to do to catch up with global standards and one expects this pioneering feat by IITG to be a trailblazer vis-à-vis fundamental research and innovation. The IITG team has developed a Phase-Selective Organogelator (PSOG) molecule, a novel material capable of detecting fuel adulteration and cleaning oil spills. This innovative material can also detect adulteration or contamination of petrol with kerosene, aiding administrations in identifying such issues. Given that mixing of kerosene with petrol is a common issue in India, this innovation can go a long way in checking petrol adulteration. Additionally, with its potential to selectively absorb oil from water and solidify it, it offers a significant advantage in cleaning oil spills. Oil spills are among the most harmful environmental disasters, causing extensive damage to marine life and coastlines.

Over the centuries, science and technology have played a key role in uplifting human civilisation, with the pace becoming more pronounced following the industrial revolution. Indeed, there exists an undeniable link between a progressive, equitable economy, and the proper application of science and technology. Economic progress and technological advancement generally go hand in hand. The paradox in India has been that despite the remarkable growth of science and technology, a large segment of the masses continues to remain deprived of the fruits of development. This brings us to the all-important question of how to apply science and technology for the greatest good of the greatest number - something that has not yet taken place in the country. The eminent scientist, Prof CNR Rao had once while terming the IIT system as the only brand India created after Independence - lamented in the same breath that had all the IITians worked for the good of the country, India would have been different today. It's disturbing to see that technological advancements have fallen short of fulfilling the collective, national need of making India a better place to live in for its citizens. Here is the crucial imperative of ensuring that science and technology are applied for sustainable and optimum utilisation of our natural as well as human resources to transform India into a developed nation. Countries desirous of making a mark globally - such as China and South Korea - are investing heavily in education. Our government would do well to enhance allocations for sectors like education and healthcare.

NATION PULSE

Individuals. Ideas. Institutions.

As institutions age and societies rush ahead, the challenge is keeping alive the dialogue between visionaries, the ideas they spark and the systems meant to carry them forward



SHISHIR PRIYADARSHI

THE WRITER IS THE PRESIDENT OF CHINTAN RESEARCH FOUNDATION

Individuals, ideas

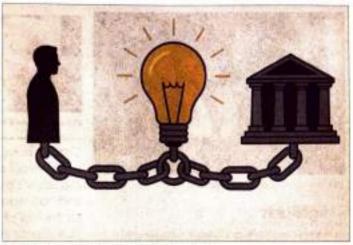
and institutions but p but p vidus tons. any list tons. any list take fi the complete without the others—and when any link weakens, decline begins quietly, which is why this chain matters more than ever today to the complete without take fi the complete without take fi the complete without take fi the complete without the wind the wind the complete without the complete

few weeks ago. over an unhurried cup of coffee in my hometown. a friend pointed to a dilapidated bungalow across the street. "That place," he said, was once the headquarters of a cooperative that transformed this entire district. Started by one man with a stubborn idea-and look at it now, swallowed by a mail." He wasn't saying it with nostalgia as much as with a quiet warning. "That's the thing about nations," he added. "They rise when individuals carry ideas, and they decline when institutions forget them." His remark lingered with me long after the conversation ended, because in one stroke he had captured what I've long believed: that human progress can be understood through a simple but profound chain-individuals, ideas, and institutions. And that the moment any link weakens, the entire

chain begins to fray. Every institution we admire today, and many we take for granted, began with the courage of an individual who refused to accept the world as it was handed to them. Sometimes this person is a reformer who pushes against tradition; sometimes an entrepreneur who dreams past today's constraints; sometimes a thinker who asks the uncomfortable question. These individuals are the sparks. They ignite imagination, they disturb complacency, they widen the horizon of what seems possible. Yet sparks alone cannot illuminate a path for an entire society. For imagination to spread beyond personal conviction, it must be carried by something more

durable—an files.

Ideas are the bridges between one person's vision



Individuals ignite imagination; institutions give it continuity

and collective purpose. They translate emotion into meaning and conviction into direction. Some ideas arrive with a roar, others with a murmur; some succeed by challenging the world, others by helping people make sense of it. Many fade with time, but a rare few outlive their creators and go on to inspire people who never knew-or even heard ofthe original thinker. But even the strongest idea is vulnerable to the erosion of time. unless it finds a structure that can give it continuity. That sturdiness comes from institutions.

Institutions are often spoleen of in dry, bureaucratic terms, but at their essence, they are the quiet skeletons that keep societies upright. They convert fluid principles into predictable action and give longevity to what would otherwise remain temporary bursts of brilliance. The best institutions retain the moral clarity of the ideas they were built to protect while adapting to new realtiles. The worst forget their purpose, becoming monuments instead of movements. More troublingly, when institutions lose memory of the ideas that birthed them, or when they calcify into rigid systems suspicious of change, they cease to nurture new individuals. They then become places where imagination goes not to flourish, but to tire itself out.

We often imagine individuals, ideas, and institutions as a neat, chronological sequence-first the person. then the philosophy, then the organisation. But the truth is far more dynamic. Institutions shape individuals every day: teachers who influence students, bureaucracies that mould young officers, companies that cultivate new entrepreneurs. Ideas evolve within institutions as reformers push for change or reinterpret old principles for new generations. And individuals, at every stage, challenge institutions to rediscover their founding impulses. The relationship is less like a ladder and more like a conversation-one that must continue

if a society is to remain alive to its purpose. When individuals stop believing, or ideas stop inspiring, or institutions stop listening, decay doesn't arrive with a crash; it arrives silently, in drift and distillusionment.

This dialogue between individuals, ideas and institutions feels especially fragile in our present moment. We live in a time of technological acceleration, social churn, political contestation and institutional fatigue. Many of our systems were built for slower, more predictable eras and now struggle to keep pace with demands that shift every few months. At the same time, individuals brimming with imagination often feel stifled by structures that move too cautiously. while institutions worry that rapid change may erode the stability they were designed to protect.

The key question for our age is how to keep the dialogue going; how to ensure individuals find the space to think boildly, how to keep ideas flexible and relevant.

and how to make institutions both reliable and responsive.

It is in moments like these that the lives of past leaders acquire renewed relevancenot as icons to be idolised. but as examples of how this delicate chain can be held together. Lai Bahadur Shastri is one such figure whose legacy quietly illuminates this dynamic. His leadership was marked not by spectacle but by moral steadiness, not by grand declarations but by clear-headed institution building. He believed that ideas achieve meaning only when translated into structures that serve ordinary people, and that institutions remain strong only when rooted in simplicity. integrity and trust.

Fits example reminds us that strength need not be loud and that endurance often comes from clarity rather than force. It is a reminder—not nostalgia—of how the chain between individuals, ideas and institutions is neither theoretical nor abstract, but profoundly

real.

As we navigate our own moment of transition, perhaps the lesson to carry forward is both simple and demanding. Societies thrive when individuals dare to imagine differently, when ideas inspire more than they divide, and when institutions hold firm without shutting their doors to

renewal. None of these pil-

lars can sustain itself alone.

The spark needs the bridge:

the bridge needs the anchor:

the anchor must stay con-

nected to the spark.

If each generation can strengthen this chain in its own way, then the past remains alive, the present becomes purposeful, and the future stays within reach.

Views expressed are personal

Arduous trek to a teaching job in the US

GRACE KAO

s we approach the Thanksgiving holiday and the end of the fall semester in the US, it is also a time of anxiety for Ph.D. students on the academic job market. Many more people with Ph.Ds aspire to be professors than there are positions. The road to becoming a professor is arduous, even for students at Ivv League institutions like the University of Pennsylvania, where I taught for 20 years, and at Yale University. where I have taught for eight years. All of us with tenure-track or tenured positions in fields like sociology have gone through what I am about to describe. It is remarkably similar across multiple disciplines at research-intensive universities.

This career path is not for the faint of heart. The job market cycle spans an entire year. Keep in mind that students near completion in a highly-ranked Ph.D. programme have already been through a rigorous selection program.

In our department, most Ph.D. candidates will enter the job market in the sixth year of their graduate studies. By this point, they have completed their coursework and field exams as well as written and defended a dissertation proposal. They have likely written much of their dissertation, which is an original body of research in the form of a book. They have attended weekly workshops and learned to critically assess research during their graduate training. They will have served as teaching fellows, helping professors with their classes.

While it is not a requirement for graduation, they will have certainly attended many academic conferences and published multiple peer-reviewed journal articles. Journals have acceptance rates in the single-digit to 10 per cent range, and it sometimes takes 1-3 years to publish a single peer-reviewed paper.

To prepare for the job market, sometime in the summer, job market candidates will begin writing a cover letter as well as research, teaching and service statements. These materials are written and revised many times by the students and their professors. Students have to solicit letters of

recommendation from their committee members (people like me). They need to prepare their writing samples. They then scour job listings for jobs in the US and sometimes all over the world. There are single deadlines for the year, which may be Sept. 30, Nov. 15, etc. In the sociology job market this year, there may be dozens of tenure-track jobs (yes, you read that correctly) in the entire United States for a beginning assistant professor. I would advise my students to apply for all the ones that may fit their expertise and that they can imagine accepting if offered the position. The odds that they will be interviewed for any particular job are near zero, as a single position can solicit hundreds of applications.

Once they apply and send their materials to the application portal, the waiting game begins. Meanwhile, they will give practice job talks these are usually 35-40 minute presentations about their research with a 30-minute or so "Question and Answer" session. Other audience members of professors and students will ask difficult questions about their research.

and they must practice how to respond to them. Poor responses to questions, even after a great talk, can end a job candidacy.

In our discipline, some schools might conduct zoom interviews with candidates first before inviting them to campus interviews, while others skip this step. Typically, three candidates are invited to a campus interview for one tenure-track position. What is heartbreaking is that despite the many practice job talks and preparations for the job market, some Ph.D candidates or Ph.D holders will not receive an invitation for a job interview.

Every graduate student I have ever met spends time grappling with existential questions about whether they want to teach at a small liberal arts college or a research university; whether they would like to live in an urban area in the Northeast like New York or Boston or in the West Coast like Los Angeles; and whether they are willing to live in a small town in the South or a mid-sized city in the Midwest. I tell them all of this is irrelevant because no one has offered them

a job yet and they have no choices to make until they successfully get a job offer. This is a lesson that they will not quite understand until they are actually on the job market. Ph.D candidates can also hope to obtain post-doctoral positions, but these are less common in the humanities and social sciences than in STEM fields. Still, these can be excellent one to two-year positions, where one can spend additional time conducting research and building one's curriculum vitae. However, the supply of post-docs also leads to a more competitive supply of job candidates, because new Ph.Ds and Ph.D candidates have to compete against them.

If you have friends or family members who are currently enrolled in Ph.D programs and hope to become professors, be kind to them. Don't ask them why they are in school for so long and if they have yet received a job offer as a professor. It's a bit like asking a K-pop trainee if they have debuted yet.

The Korea Herakl/ANN.

Punjab must defend its stake in PU



NAVREET KAUR
DEPT OF PUBLIC ADMINISTRATION, PU

HE phrase 'governance reforms' is being strategically used to demolish the democratic essence of a public university. The notifications (for governance structure reforms in Senate) dated October 28, 2025 and then November 4, issued regarding the reconstitution of the Senate of Panjab University, and the withdrawal of the same on November 8 raise many concerns. They relate to the constitutional principles of federalism, the purview of the executive or administrative directions external to its provisions (in this case, the Ministry of Education) and the authority of the Senate in initiating reforms under Sections 19 and 20 of the Paniab University Act, 1947, erosion of the democratic structure and encroachment of the rights of Punjab.

It appears that the process and mechanism adopted are inconsistent with the statutory framework laid down under the Panjab University Act, 1947. The governance of Panjab University is explicitly and comprehensively defined under this Act. Sections 19 and 20 of the Act vest the Senate with powers to regulate, review and recommend reforms related to the university's constitution and governance.

The Senate is the supreme policymaking body. Any reform concerning the composition, representation or powers must be proposed and debated in the Senate, and then processed through the legislative or statutory route, as explicitly specified in the Act, and not through executive or administrative directions external to its provisions.

Panjab University functions as an interstate institution under the Punjab Reorganisation Act, 1966. Hence, any structural reform must be preceded by consultation with Punjab. Section 72(1) of the Reorganisation Act recognises PU as an inter-state institution in which Punjab retains an integral role. The said notification (now withdrawn), issued without consultation or concurrence of the Punjab Government, contravenes the cooperative federal mechanism envisaged in the Act.

The Government of Punjab in 2021, through the Directorate of Public Instruction (Colleges), stated before a high-level committee that "the reforms to be undertaken for better governance of the university should also be strictly as per existing statues and law and that no action is taken contrary to the statutes or against the interests of the State of Punjab."

Instead of changing rules as per law, the notification had reduced the representation of Punjab in the college teachers' constituency (from 11 to 6), principals' constituency (from 11 to 4) and abolished the graduate constituency (15 representing alumni to 0) and the faculties constituency (6 to 0).

The delay in announcing the Senate election for 2024 and the systemic restructuring of the Senate by reducing the representation of Punjab in the university's governance framework and the Syndicate by replacing electoral processes with administrative nominations was a calculated attempt to reinforce the Centre's claim to governance over the university, sidelining the representation and Punjab's historic stake in PU.

The collective protest has also raised the faulty federal patterns, chronology and passive approach of the state government. The protest is being led by PU students; it should have been led by the Punjab CM. The government chose to concentrate on the 'Tarn Taran elections' instead of addressing this issue. This protest reaffirms the power of democracy and raises issues beyond party lines.

Institutions historically anchored in Punjab's sphere are being restructured into centrally governed bodies, reducing Punjab's jurisdiction and representational power in Chandigarh. The political parties have largely failed to address these issues.



TWO VIEWS

PU SENATE ISSUE

Let academics, not agitation, lead the way



HIMANSHU ATAL

RESEARCH SCHOLAR & ASST PROFESSOR, SGGS COLLEGE, CHANDIGARH

HE ongoing protest over the Senate issue at Panjab University, Chandigarh, has once again placed one of India's premier institutions at a crossroads. As

someone who stands at the intersection of two worlds - research and teaching - I witness the unrest not merely as a news event but as a tremor that is affecting rooms, laboratories and the academic rhythm of colleges across the region.

This period is critical for thousands of students. Practical examinations are underway and semester exams are approaching. College faculty members are navigating packed schedules to ensure the smooth conduct of assessments. Amidst this academic urgency, prolonged protests and political escalations are pushing the real stakeholders — students and teachers — into avoidable distress.

Protest, undoubtedly, is a democratic right. Students should raise their voices when they feel unheard. But protests must also be measured, purposeful and mindful of their ripple effects. What we are witnessing now appears to be veering in a direction where the larger academic community may suffer more than it benefits. The central mission of a university—education and research—is being overshadowed by institutional tensions and

politicised narratives.

For the administration, particularly the Vice-Chancellor and senior authorities, this is a moment demanding maturity and steadfastness. Decisions should not be clouded by political pressure or influenced by transient interests. Political parties will come and go, each with their agendas. But Panjab University must remain steadfast as a centre of excellence — an institution of innovation, critical inquiry and intellectual freedom, not a ground for propaganda or misplaced ideologies.

The identity of PU has been its academic strength, cultural ethos and legacy of producing thinkers and leaders. It must not be allowed to drift into a space where external influences dilute its purpose.

A peaceful resolution is not just preferable, it is essential. Dialogue, transparency and accountability must replace confrontation. The administration, student representatives and faculty must find common ground that prioritises academics, mental well-being and institutional integrity.

At such a moment, the media, especially the digital format, must play the role of the fourth pillar of democracy with fairness and restraint. When a young woman raises her voice against an authority, the coverage should be balanced and sensitive to the long-term implications for her personal and academic life. While a single story can elevate someone, it can also expose them to scrutiny beyond their years. In this age of viral headlines and instant judgments, balance is not just a virtue; it is a safeguard. A university campus is a delicate ecosystem; public narratives can easily tilt its harmony.

As someone committed to research and teaching, I believe the way forward lies in restoring harmony. The classroom must remain the centre of student life, not the protest site. Our students deserve stability, our teachers deserve support and our university deserves dignity.

Panjab University has weathered many storms in its long history. It can overcome this one too — if all stakeholders choose wisdom over indignation and long-term vision over short-term victories.



FILE PHOTO

A calculated attempt was made to dilute Punjab's historic stake in PU.

The classroom must be the centre of student life, not the protest site. INDIAN EXPRESS (P-10), 22 NOVEMBER 2025

A student's death, a society in the dock

TTAKES a village to raise a child, and between home and school exists a compact to nurture curiosity, offer steady ground when the world grows unkind, and safeguard vulnerability. The death by suicide of a Class X Delhi student lays bare the fragility of that promise. "Sorry mummy, aapka itni baar dil toda, ab last baar todunga..." The heartbreaking note left behind by the 16-year-old — a child allegedly worn down by months of censure and public shaming by teachers — shows what happens when a young person feels stranded in the very spaces in which they are meant to be nourished.

Across India, such tragic stories have become far too frequent. The National Crime Records Bureau registered 13,892 student suicides in 2023, accounting for around 8.1 per cent of the total deaths by suicide in the country. The numbers have grown by 65 per cent over a decade. The surge not only outpaces the national suicide growth rate, it is also a reflection of the unyielding academic stress, growing socio-economic uncertainty, and the increasing cultural pressures the young find themselves mired in — the shrinking space afforded to mistakes and the ever-expanding demands to be perfect or to conform; the inordinate amount of social-media exposure and the loneliness and inarticulation of youth in a world that is ostensibly more connected.

The school has placed four members of its academic staff under suspension. The Delhi government has set up a high-level probe committee. But the cycle of blame and retribution fails to address the deeper challenges. In classrooms and coaching centres, in family dining rooms and social gatherings, the architecture of young people's distress is often visible in fragments independence tamped down as insouciance, silence mistaken for sullenness, perfectionism praised until it calcifies into anxiety. For many adolescents, their interior worlds are crowded with apprehensions they struggle to name. While schools and parents speak the language of care, the grammar of everyday life tells a harsher truth. It is this contradiction that now confronts parents and educators with unprecedented urgency. How does one build environments where ambition does not eclipse wellbeing, where attention extends beyond performance metrics. where counselling truly creates safe spaces for children to speak up, to falter without fear, where they are seen for who they are? The road ahead lies not only in creating systems that recognise distress early, but in reshaping the cultural impulses that ignore vulnerability. It is time for that deeper work to begin. 🕡

HIGHER HORIZONS Global Degrees, Local Campuses

With foreign study turning costlier and riskier, India's bid to become a global education hub gains urgency, but success hinges on reforms, autonomy, and industry-linked outcomes



K.D.P. RAO

THE WRITER IS A FORMER ADDITIONAL CHIEF SECRETARY OF CHHATTISGARH

The education industry in India is estimated to reach \$225 billion by fiscal year 2025. But with the current infrastructure, as experts feel, a huge gap persists between demand and supply

equiring qualifications from foreign universities was once a luxury only aristocrats and royalty could afford. Now it is a necessity for youth from the middle classes, especially in STEM streams, to secure a decent job either abroad or at home. A finding by the Erasmus Impact Study says that academic competence acquired through international courses. greatly helps employability. Foreign institutions of higher learning in specialised fields like artificial intelligence, biotechnology, or renewable energy provide access to cutting-edge research facilities. Tech-led entrepreneurship has encouraged new employment avenues in the gig economy and in data-related fields. Hence, the beeline for enrollment in reputed institutions abroad.

Currently, over 1.3 million Indian students are pursuing higher education in 101 countries, making India the world's top source of international students. However, reportedly, in 2024, the student migration has declined sharply by 15 per cent, and in 2025, there is a 50-70 per cent drop in US applications and a staggering. 93 per cent plunge in Canadian study permits. This reversal is largely attributed to policy crackdowns, bikes in fees, and enhanced financial and academic qualifications, not to mention racial discrimination and violence against Asians. The average cost for a 2-year master's abroad is estimated. between 740-80 lakhs, excluding living expenses. But tronically, contrary to the dreams of global opportunities that attracted students to move out of their country, 40 per cent of them are reportedly returning jobless, facing OPT/TPD limits (1-3 years).

Taking note of the scenario of student migration, NEP, way back in 2020, had incorporated a vision to transform the Indian higher education narrative into one of global standards, focusing on research, critical thinking, and problem-solving. The dual purpose is to position India as a global education hub, and also to curb the \$28-30 billion annual outflow from Indian students enrolled abroad. Translating the vision into reality, a revolutionary scheme was rolled out in 2023, permitting world-class universities, runked in the top 500 slobally, to establish their own autonomous camposes in India either independently or through joint ventures with Indian companies. More than a dozen Foreign Higher Education Institutions (FHEIs) were invited through Letters of intent (LOIs).



ladic is betting big on internationalising higher education through foreign university compases and regulatory reforms

Correspondingly, the UGC issued guidelines in 2023. FHEIs were allowed to operate either under University Grants Commission (UGC) guidelines or in Gujarat International Finance Tec-City (GIFT City), a central business district in Ahmedabad. The FHEIs will offer courses through certificate, diploma, degree, research, and other programs at the undergraduate, postgraduate, doctoral, and postdoctoral levels in a variety of subjects. and programs. Importantly, it was mandated that qualifications obtained in FHEls shall enjoy the same recognition and status as if they were conducted in the home jurisdiction and also shall be equivalent to any corresponding degree awarded by the Indian Higher Educational Institutions. With regard to governance, the FHEIs will undergo a quality assurance audit and submit the report to the Commission. Besides, FHEIs are subjected to annual reporting, maintenance of accounts, and mechanisms for addressing student grievances. Similarly, the Exchange Control Regulations (Foreign Exchange Management Act) and the Foreign Contribution (Regulation) Act (FCRA) will apply to FHEls as well.

The policy has paid dividends with Deakin University and the University of Wollongong from Australia setting up their compuses in Gujarat's GIFT City, and the University of Southampton in Gueugram, while other universities like Western Sydney University and Victoria University are erecting compuses in locations like Greater Norda and Norda. The Illinois Institute of Technology, US, and Istituto Europeo Di Design (IED). Italy, have received approvals to set uptheir campuses in Mumbai. However,

no by League or Oxbridge institutions, or solid mid-tier globals (top 100-400), better than many Indian privates, have responded yet. Other popular, wellranked institutions expected to open their campuses are the University of Bristol and the University of Liverpool.

Nevertheless, most FHEIs that are expected to operate by 2026 are yet. to set up their campuses. A combination of regulatory, financial, and operational issues seems to be impeding the momentum. A multi-layered approval process involving UGC, the Ministry of Education, and local governments, not to mention field-specific bodies like AICTE, is said to be the reason behind the delays. Secondly, the rule of non-profit status compels the FHEIs to register as trusts, complicating the process. Thirdly, an investment risk. holding back the FHEIs is the requirement of a full-fledged campus, which makes the project capital-intensive; and absent subsidies, and with limits on surplus reputriation, the pricing can go higher than available global options while returns are uncertain. For example. Texas A&M closed its Qatar campus after 20 years due to similar reasons.

According to Statista, the education industry in India is estimated to reach \$225 billion by fiscal year 2025. But with the current infrastructure, as esperts feel, a huge gap persists between demand and supply Pushing the GER towards 50 per cent by 2035, as crivistoned, would necessitate tripling the current portfolio of universities and more than doubling the colleges, which the government cannot accomplish

Entry of FHEIs in the Indian higher. education sector, at this juncture, can be a game-changer as they can help reduce migration, facilitate expansion, and also set standards of excellence that encourage competitiveness. But a revision of the guidelines may be necessary in order to fully realise the dream of internationalising Indian higher education. For instance, the criterion of "top 500 global ranking" excludes many strong but unranked institutions, such as those in the US. The experiment of South Korea can be tried, where world-class institutions successfully collaborated with local ones. Preferential treatment to FHEis can deliver better results in place of subjecting them to a license rail. Though some reliefs were granted, like relaxing the land size norms, simplification of procedures, tax holidays, and exemptions are necessary for enhancing ease of doing business, just as the FHEIs in GIFT City-exclusively enjoy. A framework of minimum restrictions and maximum autonomy, along with self-regulatory mechanisms, can help expedite the process of commissioning.

The FHEIs, on their port, inter alia, must build effective corporate networking towards ensuring quick placements. since demand and placement are prime concerns of Indian students who pursue expensive courses either on loans or on the lifetime savings of their parents. Absent such assurance, the enrolment may suffer as aspirants would prefer to opt for the parent campuses of FHEIs abroad. It is estimated (Forbesindia. com) that by 2027, if 5-7 campuses hit 70 per cent enrollment with scholarships and local collaborations, it could revolutionise access and innovation. But an affordability manuface and parallel investment in Indian universities are necessary to prevent inequalities from exacerbating.

In 2016, according to Dr Choudaha (Beyond \$300 Billion: The Global Impact of International Students), 5.1 million post-secondary students hugely contributed to the economies of host countries to the tune of \$300 billion, alongside other benefits such as "academic, research, experiential, and cultural dimensions contributing towards an inclusive, innovative, and interconnected global society". India. as the leader of the Global South, can fererage the opportunity to boost economic prospects as well. For example, US higher education, as a major expurt, generated \$44 billiam in revenue in 2019 alone, while it was about \$51.0 billion. and \$35.9 billion to the economics of

Australia and the UK, respectively. Views expressed are personal MILLENNIUM POST (P-7), 22 NOVEMBER 2025

AT VANTAGE



SHUTAPA PAUL

THE WRITER
IS AN AUTHOR
AND MEDIA
ENTREPRENEUR

As of 2021, our suicide rate was 12.6 per cent for every 1 lakh people; a notably higher number than the global average of 9.2 per cent

Youth in Distress

The Indian youth has a mental health problem that is growing at an alarming pace. Effective mental health support at home, educational institutes, and workplaces are a must to stem the tide

Class X student commits suicide in Delhi over alleged harassment from teachers. A first-year student kills himself in Mumbai after presumably being beaten up for not speaking Marathi in the train. This is the unfortunate story of two young boys who took their lives on the very same day in two different cities in the country. The Hindi-Marathi language row and the incorrigible behaviour of the school teachers are both condemnable. But let's also ponder the growing and worrisome issue of mental health among the younger generation.

Our predecessors were not martyrs or superhumans, but they sure were sturdy. Comparatively, if you're a parent, guardian, or educator today, you can't disregard the emotional fragility of the young mind. Our older generations withstood wars, famines, droughts, the freedom struggle, and a bloody partition. Our parents survived economic highs and lows, communal riots, and the onslaught of the digital age. Many of our millennial childhoods had ugly shades where corporal punishment, sexual abuse and harassment, and roadside heckling were par for the course. We also grew up hearing or experiencing firsthand instances of extreme ragging, it was physical and mental tocture; the kind of ignominy that broke the bodies and souls of young students. There would be cautionary tales emanating from medical and engineering colleges that scared and haunted us. As terrible and unfair as the world seemed, generations survived the sticks and stones, words, and humiliation. A few gave up, but most soldiered on. Can we say the same for younger folk today? Fed on instant gratification and validation, along with an overdose of social media, Indian youth are not made of the stronger stuff of yore, and their waning mental health is growing to be

a matter of concern.

Across generations, the world has changed, but it has not gotten kinder; in fact, it's quite the opposite. Bullying



The world is getting harshes, not kindle, and India's young are struggling to withstand it

and harasament wear sophisticated garb now. The digital world has unleashed faceless tralls who body-shame, objectify, or throw canards. Lives are hard, jobs are few, and the cost of living is high. Between the hostle and bustle of life, unbreathable air, encophonous traffic, and the daily rigmarole, there is also the glitz, glamour, and opulence of the rich, beautiful, and fit. Gullible minds consume these stories of success and build in their minds a perception of happiness and accomplishment. These life goals may be pretentious, unreal or even fake, but to the impressionable mind, they denote the absolute epitome of a triumphant life. Nothing short of realising it can appeare them: any obstacle that comes in the way will make life seem catatonic.

Even if life is a bed of roses, it comes with thorns. The younger generation has to be equipped to pick them out. And that requires an enduring disposition. But youth today are constantly surrounded by things that weaken rather than strengthen them. A colleague was telling me the other day that today's youngsters eat clean and are more conscious about everything that they do. Recent news stories also point towards a trend where, instead of the

pub-loving, almost-alcoholic millennials of my generation, Gen Z and Alpha prefer veganism and a nicely brewed cup of expensive coffee. They are living more mindfully today than the previous generations, not only because they want to but also because they know they have no choice. Previous generations have plundered the planet, resped profits, and killed the environment. For future generations to sustain, the current ones have to pick up the cudgels of social and climate reform. More power to the younger lot, but are they mentally and emotionally strong? This worries me

One of the leading causes of death among young Indians between 15 and 29 years of age is suicide. As of 2021, our suicide rate was 12.6 per cent for every 1 lake people; a notably higher number than the global average of 9.2. As per news reports citing numbers from the National Crime Records Bureau (NCRB), over 13,000 students committed suicide also in the same year; 2,000 of which were connected to poor performance in examinations. Some experts are going so far as to call youth suicide a public health crisis.

It's a positive development that more people today are speaking openly about mental health. As employers, we are forced to accept and admowledge that mental health is essential. We strive to promote work-life balance at home and at work. Individuals, too, are more frank about talking about anxiety and depression today. Two decades ago, if we went to our bosses crying about mental health, we would have been called weak and unfit for the job. I'm glad the world is evolving to recogrise the important aspect of human health. But isn't it also becoming all too common? Almost everyone is suffering from some form of mental ill-health or another. And I'm not speaking of the medically diagnosed mental illnesses that require medical intervention and psychological support. I just feel, and this can be an unpopular opinion, that we are not bringing up our youth to be resilient. Between wanting a Utopian. concept of perpetual stress-free work and calling every single heart flutter a big calamity, we are nurturing a generation that may be tough on the outside but mushy inside. By giving our youth no challenges to overcome, by allowing mindless social media to poison their minds, by not introducing them to religiosity or spirituality early on in life to lean on, we are mollycoddling them, we are harming them.

Yes, be vulnerable, speak candidly of all your troubles, but at the end of it, let's teach our youth also of courage and determination. Give them the confidence to complain about bullying, not succumb to it. They must learn kindness, not just towards the person on the road but also towards themselves. The beain is a muscle that must be trained to overcome hardships in life. We shall overcome, this too shall pass, that lee sage jeet hain' (there is victory ahead of fear) - these lessons are as important as it is to be emotionally vulnerable. Otherwise, we will keep losing bright young kids who should have their whole lives in front of them to fall. rise, learn, unlearn — and most importantly, to thrive. miller.

Views expressed are personal

The battle for Indianness in education

What began in the 1950s as a quiet preference for British affiliations soon evolved into a deep-rooted belief that true academic excellence lay in the West. This shaped not just careers, but mindsets, policies, and even politics



VINAYSHIL GAUTAM

in the mid-1950s, Dr Radha Krishnan was emerging on the political firmament and was often sought after. Those were the days when any association with a British university, more specifically Cambridge, Oxford or London, was a special background for making a career

The pattern changed in the decades to come. but the allure of foreign affiliation remained high in the Indian employment market and, indeed, in the Indian psyche.

London, Cambridge, Oxford and more did not exactly go away, but there emerged on the scene, alongside, institutions like Boston, Yale, Harvard and more. This showed in the employment market. A degree or placement from these institutions was a high recommendation for employment in India. The Planning Commission was a particular favourite for the influential with this background to return to India. Careers were made there, and prominence was assured.

The Government, both at the Central level and at the State level, kept the slogan of Indianness alive, but their ability to convert it into a dignified employment pattern was missing. A degree from, say, 'Ujjain University' and the like may have had a lot of worth, but it was not reflected in the employment market, indianness was a slogan, not the prime attraction for careers. This was true at the graduation level, at the postgraduate level, and certainly at the PhD level. This fact of image and pricing was reflected in many political statements but never found its way into the employment market. This was unfortunate for the growth of the Indian education system.

It is true that in the sixties, many useful and worthwhile Central universities emerged, as did the IITs, IIMs and more. However, the malaise remained. Students graduating from IT's or with a certification from the IIMs also sought their careers abroad and were hardly attracted to the Indian market.

Hence, the situation emerged where talent was drawn to IITs and IIMs as well as distinguished Central universities, but graduating from there did not merit serious attention for staying back in India. This was popularly condemned as 'brain drain', but nothing operational was effectively done. There was a sense of status deprivation for Indian degree holders. Clearly, this did not bode well for nation-building. The flaws were obvious and many. Some of them were well recognised but seldom acted upon. illustratively, if an Indian student went for a PhD topic abroad, his choice of topic was determined by the specialisation of his supervisor and the resources available in the institutions of his



STUDENTS GRADUATING FROM IITs OR OBTAINING CREDENTIALS FROM IIMs ALSO SOUGHT CAREERS ABROAD AND WERE SCARCELY ATTRACTED TO THE INDIAN MARKET

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choice. This did not help the growth of an Indian-oriented IIT or IIM orientation. This situation persisted through the seventies and the eighties. A few people tried to flag this problem, but even an Indian-oriented political leadership was unable to reverse the trend. In fact, the influential members of the system, in many ways, reinforced it by sending their wards abroad for education and employment. They could do this more freely because they were influential in the Indian system, and the non-Indian universities from prestigious learning centres of the West knew how to develop relationships with them. They saw it as an opportunity to create a relationship of obligation with an influential class of Indian decision-makers.

What is said above was no secret and so obvious that it would be like missing the writing on the wall. Yet, as stated, nothing was done. There were many theories projected to explain this, but while these theories may explain and enlighten, they did not alter the trend or its

effect. Gradually, the resistance, if any, to this Western-oriented learning came from a political coterie which was essentially anti-West. This is in reference to the Indian Left parties, such as the Communist Party, the Communist Party of India (Marxist), and some socialism-oriented Indian parties, such as the Praja Socialist Party and the Samyukt Socialist Party, et al.

The Indian parties of Left orientation lacked the range and depth to set up universities in India with a particular bias or correction of an existing bias. The communist variations of populist parties were a little more endowed with range. They started sending some of the brightest students in their range of influence

to Moscow for PhD work and other studies. The language barrier there was strong, and going to the US was an easier option than going to Moscow (where learning Russian would be a prerequisite). All put together, the options did not really emerge, and the pull factor of English-oriented education, first in the UK and then in the US, continued to rule the roost. It still does. A few attempts were made to set up institutions with a particular bias, such as INU. but the experiment produced mixed results and later revealed its own biases.

All told, the Indian system of education went by default, and the lethal blows delivered during early British rule and colonial doninance continued to shape Indian politics. Indian education and therefore Indian writing

to a very large extent. It is interesting to note that successive education policies announced by the Central Government did little beyond rhetoric to effect

The Indian education system rich as it was, did not receive any

serious institutional support or place in the employment market, Indian degrees such 45 Sahityacharya or Teerth had little draw in the domestic education market, and the roulf to employment remained tied to degree such as Bachelor of Arts, Master of Arts, Master of Science and the like. This lack of cusply with the Indian employment market had a negative impact on the growth of Indian

The last few years have seen an attempt 10 reverse these trends, but the results have yet to come in. Persistence and perseverance with clarity of thought will perhaps show the way forward.

Shaping India's next generation of innovators



MEENAL MAJUMDER

2_{ND} OPINION

In October this year, five students from modest government schools packed their bags and boarded a flight to Panama City. They were on their way to represent India at the FIRST Global Challenge — an international robotics competition featuring teams from 193 countries. Their journey began far from global attention, in a small and often overlooked Atal Tinkering Lab on their school campus.

These are not the students who typically find themselves on global STEM stages. For Gouresh, the team's lead programmer, the lab opened a doorway to a long-standing fascination with machine logic. For Ningaraj, raised by a single mother working in housekeeping, it offered possibilities that once seemed distant. A decade ago, such a story would have been difficult to imagine. Their achievement is about much more than competition results. It reflects what can happen when potential meets opportunity-and it raises an urgent question: how many such stories can India create?

Why Tinkering Matters

Tinkering labs offer something most indian classrooms still lack: the freedom to explore, experiment, and fall safely. With robotics kits, microcontrollers, 3D printers, hand tools, and guided instruction, these spaces encourage inquirydriven, hands-on learning. Students learn to solve real problems, collaborate, iterate, and apply theory to practice.

The five students who competed in Panama spent months after school-often late into the evening-teaching themselves coding, electronics, and mechanical design. Mentors from the Amazon Future Engineer Makerspace, run by The Innovation Story, supported them throughout. Within six months, the team built a functional, competition-ready robot designed to help other robots navigate obstacles — a fitting metaphor for what a supportive ecosystem can unlock. More importantly, the experience reshaped how they saw themselves: the lab did not merely teach robotics, it taught them to think like innovators, India has islands of excellence in STEM-Atai Tinkering Labs.

private competitions, and nonprofit maker initiatives but these remain fragmented. Over 10,000 Tinkering Labsnow reach around to million students, yet with more than 15 million schools, access is still uneven, especially in government and rural institutions. This gap represents a lost opportunity. As India moves towards a projected \$7 tilllion economy by 2030, innovation capacity will determine how much growth can be unlocked - and who participates in it. Tinkering is often treated as an add-on, limited to competitions or one-off projects, but impact remainshallow when learning is episodic. To truly cultivate problem-solvers, tinkering must shift from a project to a core learning approach. This means integrating hands-on making into the timetable, training teachers for inquity linking labs to local challenges, ensuring ongoing mentorship, and building industry exposure. In short, tinkering must evolve from programme to pedagogy. India's future innovators will emerge when schools create space for curiosity and encourage students to become creators, not merely consumers. The talent exists; now intent must match it. Innovation depends not only on tools in students' hands but on the belief placed in their polestial. India's innovators of tomorrow will emerge by design - if the nation chooses to design that future today and

The writer is the Founder of The Incountion Stary

TRIBUNE, (P-8), 22 NOVEMBER 2025

3 states, 3 tragedies

Schools are failing children

HE suicides of a 16-year-old boy in Delhi and a nine-year-old girl in Jaipur lay bare a disturbing reality: India's schools, meant to nurture and protect, are increasingly turning into spaces where cruelty, neglect and unchecked authority can destroy young lives. These tragedies are not aberrations; they are symptoms of a failing system.

In Delhi, the teenager who leapt from a Metro station left behind a heart-breaking note describing humiliation at the hands of his teachers. His parents allege sustained harassment — scolding for trivial issues, threats of expulsion and mocking in front of peers. The FIR outlines how even after he confided suicidal thoughts to a counsellor, the school neither informed his parents nor intervened. When a child signals distress, indifference becomes a form of violence. In Jaipur, the CBSE's probe into the death of the nine-year-old shoolgirl is an indictment of institutional apathy. For 18 months she endured bullying. On the day she died, she approached her class teacher five times in 45 minutes, visibly distressed by obscene content written by classmates. The teacher dismissed her pleas, shouted at her and offered no support. Hours later, the child walked to the fourth floor and ended her life. The school even allegedly washed the death spot, compromising forensic analysis. These are not lapses; these are violations of duty of care. And then comes the horror from Vasai in Maharashtra. A 13-year-old girl was forced to perform 100 sit-ups with her schoolbag for arriving late, despite reportedly being anaemic. She collapsed soon after and died. The teacher has been arrested for culpable homicide.

Three children. Three states. One broken system. Enforceable school-safety laws, mandatory reporting of emotional distress, trained counsellors, anti-bullying systems and real penalties for both emotional and physical abuse are urgently needed. No child should face such tragic ends.

NAV BHARAT TIMES (P-12), 22 NOVEMBER 2029

स्टूडेंट्स का दर्द

बुलिंग से परेशान बच्चों का स्यूसाइड

दिल्ली से लेकर मध्य प्रदेश के रीवा तक, हाल की घटनाएं स्कूलों के माहौल पर बड़ा सवालिया निशान लगाती है। चार जगह चार मासूमों ने जान दी और सबके पीछे वजह यही थी कि टीचर्स ने उनके दर्द को नहीं समझा, उल्टे परेशान किया। इस तरह की घटनाएं शर्मनाक है।

चार मामले । हालिया मामला दिल्ली का है, जहां 10वीं के बच्चे ने



शिक्षकों ने की अनदेखी

मेट्रो के सामने कृदकर जान दे दी। आरोप है कि टीचसे उसे कई महीनों से परेशान कर रहे थे। इसी तरह रीवा में फांसी लगाने वाली 11वीं की छात्रा ने स्यूसाइड नोट में लिखा कि टीचर उसे मारते थे और हाथ पकड़ लेते थे। राजस्थान के करौली में 9वीं के बच्चे ने आखिरी शब्द लिखे कि मरने के बाद टीचर को जेल भिजवाना। वहीं, जयपुर केस में भी स्कूल की लापरवाही सामने आई है।

अनसुनी पुकार । एक बात सामान्य है कि स्टूडेंट्स जितना दूसरे बच्चों के व्यवहार से नहीं टूटे, उससे ज्यादा उन्हें शिक्षकों के रुखेपन और अनदेखी की वजह से धक्का लगा। जयपुर वाले केस में 9 साल की बच्ची अपने टीचर्स को बताती रही कि दूसरे बच्चे उसे परेशान करते है, मगर स्कूल ने उसे रोकने के लिए कुछ नहीं किया।

संवेदनशीलता की कमी | CBSE की गाइडलाइंस के मुताबिक, हर स्कूल में रिड्रेसल कमिटी होनी चाहिए। लेकिन ज्यादातर स्कूलों में आज भी बुलिंग को लेकर संवेदनशीलता नहीं है। इसे बच्चों के बीच की सामान्य बात मानकर नजरअंदाज कर दिया जाता है। कई बार तो टीचर खुद ऐसा बतांव करते हैं, जिससे बाल/किशोर मन को ठेस पहुंचती है, जैसा दिल्ली में हुआ।

उम्र भर का दर्द । स्कूलों की घटनाओं का स्टूडेंट्स के मन-मस्तिष्क पर असर लंबे समय तक रहता है। कई बार तो जीवन भर। विभिन्न स्टडीज बताती हैं कि पढ़ाई के दौरान का नकारात्मक अनुभव बच्चों को हमेशा के लिए अवसाद में धकेल सकता है।

मनोदशा समझे। स्कूल या किसी भी कैपस का मतलब केवल शिक्षा नहीं, स्टूडेट्स का सर्वागीण विकास है। और ऐसा तब तक नहीं हो सकता, जब तक टीचर्स अपने स्टूडेट्स की बातों पर ध्यान नहीं देंगे, उनकी मनोदशा नहीं समझेंगे। पैरट्स अपने बच्चों को इस यकीन के साथ भेजते हैं कि स्कूल में टीचर है, जो सब संभाल लेंगे। इस तरह की घटनाएं उस भरोसे को तोड़ने वाली है।

Paint like Nobody's Watching

While art education is restricted to basic principles, new platforms are enhancing the visual vocabulary of children, making room for exploration and curiosity

Vandana Kalna

TONE were to view Catalan artist Juan Miss's uncoffines and froting worlds of farm and callour, could to seconlike the squiggles and spontaneity of a pre-schooler's drawings? Or could Cubism plonser Georges Brague's Les Étoiles, with its diseasey black cloud and wirts bird against the stars, be mention a sitt year old taking about free done and broadly.

After all that's how children or more! to draw - playfully incignatively and with cast the hallets of the mind shot fasce there. arab sci patierry. As Asstrian artist Frenz Cusek, fourther of the Child Am Monement. strayed, 'The more achitit's work is fulful Here individual mistako, thurnere wander hat is "Not his worth find irroted necrosco in Indian clossmann, where children are After encouraged to replicate what's on the rigitional leaving little member currently. You approach beverer is shifting as abermake signales made efforts to marriage of as a notherpresion.

What is not a true on the dedicated in a Secondarity Arts Festival SAF) and Each) Stoney Demoker Witchese miner possibil programmes for the young, an opposition such as Ribar Museum, Kiran Madar Muterom of Art (KNMA), MMF in Bengaliana. Calumpini Shrooi Nahang Valur Sangsa Datage and Share that East to Manufact, and quite inches folkete Centricked reality. Franchise for Indian Contemporary Art DECAGOOD The Familia to Report Separate with dedicated children's nacionage, in tended to make an appearing a Aberthan a scholdary is feet.

Every Sacurday recently, \$550 A tell with becomes a player and of the parry. The guest of the solute walls in replaced by the chance of young voters, topping of terms ments or made of juper being cut and

counted. As children settleron mass and engage with the activities assigned, new forms emerge. A spharh of paint hamplines a wood. as they are encounged to follow their inv pulse. "Each session is theme-based, offers. impired by artworks from the collection, enoutriging children to move through a process of seeing, reflecting and creating," says Sonyo Sahai, Simior Manager, Learnington 6 Outrooch Programme, ENMA.

Forchützen, dusagerieste europeaup as entirely nave was of society Della based Solution), new 12, recells that at age feetier landscopes followed the predictable term glate - a lifue siver, brown mountains. mission re-flow stan and a patch of groom. That changed when during a worlober, showin nudged to otherion conserving

unfamilia: The lease stood. Tracked we condrawthingthat enemet orient could discome seniciting through sheeropetrantationwith. infortand form," she says.

Director of SAP Smoth Halgarbia shores how children were in integral part of its inchesive approach when the festival auxlie Enzplannetlevern decade sex." The lifest so akcini when ny talk atom ceture are really modifices and tristle postpersymetration that will carry shoot farward," she was trables than reportings for the better mingration, she hadanalytic terrorisation with related harmatitude programmes. Week deposits of the letter being a yelling

secred, cooler, between making and

stage contion automation - are also being

planned. A regular of NAY, Monthal bared

Staine with another of two adds, "In con-

ARTISTS ON CHILDREN'S BOOKS

Verbui Shyura

INDIAN EXPRESS. (MAGAZINE-P-1). 23 NOVEMBER 2025

It is for your effective to communicyte with divident hough imports than test. A picture is a language that needs no words and it was when? began painting that funders tood how elsastlanguage can be so gowerful. In Gond en, every picturorit a merodyn. Diebantoy Benefittanowings we can open up sometry conversesions, an aspectment and versity, on visionment, our values. Children are as a nully agreeded to Gond extitoresponsible beight calcuts we use pelleye, sed, blue, arange - which make them want to read the book or simply understand what is being said.

these always enjoyed working with shidren, itsaght at a Montessoni

school intitions arise to 1960c. and later, wherevery Soughters were studying at Delle's Sanda Fatertidyolasa, i would occasionally (heartmore/bent access) Teaching child wissero (put) about matrustics his dea abent recognising what intereasthan and group from special Officeurse, marfystartund exposure metters (efternaged) responsations breeding to reand not worse of there is an artist Officeathal and another cause signor (Deopal). Art can be come appropriate to the property versus Recentle Incomputed a warkshapter as proportion for item.

everyday lives, tit. is a struggle to explore children's flow. and didden by taking them for different classes. This becomes a good place to tander-

stand their inclinations. At KMD, the leason continue through the year, with workshops for enalysis, parents, art education and diverse community groups. Since its Lacoption in 2018, its Art. By Children (ABC) Art Room years has worked negalistly with government actions to develop centest based art pedigney, where teachers also often become participants. Schools are usually direct to the split of becoming No Libut our size is to be of slid seaexplenethers ready expetential through procoss-different activitates emphasissing en the basic principles of image making and rluthon," say Blaine Joseph and Northu KS

In Inci, paint and paper can also help color-whos current be ordered and in words. At Articach India, these possibilities are expleastwith tinklenand young additions enternal and contraction. The correction workshops is to give citization appropriate frame (hylethoughts, it is a sless process to bein). thansase, to let the number prist skew and selfhave fire," says Anarya, Programmes Manages, Artistach freita Their medder-timur tions multi-day world high with second acparties. From simple tasks of drawing crist-Hors, analoging valge and loss octomake menters to incontrol, extension of characters with young antists or create muscle, and to sufficient for continuation traces, "Office, different who are ont-lifered profitorants absorbere stars independent florage and despensive northers. These wirthhops bosomeruse space-where they depend on boughedot, abbotiouspendi fi wa-

Arrives Low one created by the United States Videofread is democrat 15. A retofuntaalteredigh stansard in cit fallowater-fooding.

ARTTUR VILL

(Clackwise from top) Children engaging with an at new community. Foundation of Indian Contemporary Art, Novilli-World's Hiermale and Kiran Nadar Masseam of Art.

Ropell 44/9, "Learning has become an impostum practice - aratrol process industcome - formany artists today. Our exercit Emerging Artist Assimilee Hallam Pradition Democracy, is channeling much of he to worth on nitral interaction in his hornel-state. at dideba via regular workshops with children in a growth truck of school at Whalveeswarts undexunithe on-ground with Droughthur natrones

Beyond the workshops, bestehelves as: filling eat too. Among others, if \$5, \$19 in-War Art Yalo Ma Pale Catains Trace, the tion/less-of-modern of telephone received elements such as the sons and teldouts. Between Paralliantic The Artistal Live Mercu Star Gildhorm Candi Forkel (cl. loss the mart sudaya Haracons Dan gars, tedlacind France sellers received the varion inflyings

50 ax all these and horrows are assist-The swittheresis of accounts in the free dors at eriors. (Bosschirours at at ninfes-Department of grantly if a result his inscensive Ended transition of Indoors in continues partition countries de for William Stocker that his school to a beauthfund bleech is so to over an his perfective over the later the least etahtriesi, muun

Galactica movement of demokrati Davishop the successed Miles in whom bysiciological and script eticlials result by antereds exfort advide torrelate connection of the property of the Saw had Aumentodes degeláthan - mitáli Source interested most did perhaps leatinto et entre more deserb anti-heatti mesodopit - 26/mi



Soma Basin

wolutionised our lives with smartphones by applying the principles of

graphic design to personal computing. The Weish School of Architecture is delving into how design can shape a supportive and ourturing end-of-life environment.

Closer home, Bengaluru-based prewritive healthcare service, NURA, works with hospitals to train and empower family caregivers to improve patient outcomes in healing at bome

This ability to synthe sise and formulate creative solutions is a skill increasingly in demand and necessary to shape the future, says American destgner-educator Sandy Speicher, who emphasis es that design is the next big thing in education. Usually understood in terms of fashion, interiors, and aesthetics, design is also about creating human-centred, sustainahie experiences that work in favour of people.

"Design officiation is not for self-tot public service; it is about how to make communities huggy and prosperous," said Spencher, during as incoview while on a visit to india to forge connections with maintaine willing to integrate intervaling to tonggrate intervaling to to the mily way for ward to navigate modern complexities."

Systemic and savvy
The former CKO of the
global design firm 1060.
Speicher is currently an
advisor at the BITS School
of Design in Mainhal. She
feels that, while India provides abundant opportunities for future careers
and is a famistic place to
brainstorm ideas, "the
country lacks a design
identity. Those is a need

to harnest the power of

design thinking across all disciplines."

Designer-educator Sandy Speicher explains

why design thinking is an effective tool to promote

multi-sectoral learning across disciplines.

Design for the future

Design has to be systermic and sawy to community needs and offerreal-time benefits to people. In the social space, human-centred designing is happening, but it is not visible yet in the aducation sector. Learning about what support people need is haw design lessed is haw design.

ought to be raught and

understood."

Take the case of pollution in Delit. How can design thinking address the risot cames, which comefrom population, hisman behaviour, prographical landscape and vagaries of womber?

The issue is not - gral should not be - the concorn of environmentalism or scientists alone. Esperis cuiting across spe-

cialisations should feel the poin, imagine what can be done to alleviste the situation, execute a pro-active plan, and keep staring the same.

"This is how design thinking operates: feel, tmagine, do, and share. Every curriculum should seesi tise students and hurb them into mimi-investigators in their respective helds of knowledge and steer them to problem-solving at every level, from local to global," says Speicher. According to her, the skills to bridge knowledge gaps independently, collaboratively, and resourcefully are most relevant today. A heart to build livelihoods and being sensitive to who is left out should be at the core of one's

development.

Bourybody thinks and acts like a designers, teachers are designers, but they neither know it not have the language for it. When design keeps the human being at the centre of education insmall of being more engineering or policy foreassed, it is then

cussed, it sustainable.

mons," she

Speicher says recogniing design as a process creates deeper understanding and empothy. "It is tital to be attuned to people's needs, feel for the community, and support with simple solusays, highlighting the success of a project in taitin America where she helped scale a network of schools in Peru and mode education affordable for the country's growing middle class.

Successful projects.

"We introduced a blended learning approach with indoor and outdoor classrooms and did away with rose learning. Soodents were given 'me time' to develop other skills or pursue research of their interest. The classrooms were named into flexible spaces to accommodate store or fewer students. We also developed a database of 18,000 lesson plans for the teachers," she explains. Since 20th, Innovahas grown to 80 schools

Every curriculum shauld sensitive students and turn thereinte min meestigators in their respective fields and sieve them to problem solving at every level, from local to global with 80,000 students, evpanded to Mexico, and has inspired similar education models worldwide.

In India, she worked with Kiran Bir Sethi on the Design for Change challenge for the pre-teens (IO to IO years). The instinces are processed for children in areato new ideas with innovative solutions. "To feel for another cumulaity and see another world beyond theirs impure the power of 'I can' to the students."

Today, creative leaps are crucial without lating sight of the intersection of design, leadership and so call impact. The pandemic tenght us to focus on our relationships with everything – our work, organisations, other humans, and the planet – and is also shaping learning enveropments.

"The best breakthroughs come with empathy and crestitity. Good design projects bring the shared intent, vision and aligned conmitments to improve the world and solve complex trobberns."

According to her, the grammes that provide students with holistic manadisciplinary edoca tion practised through futune-forward thur threaten batters have an edge over others in the coming verzes *Punure clesion leaders have to be creative thinkers, publish alegeithers and selfvers, and aesthetical by agreeting to yespoosibly simphip

work in multidisciplinary

mes, M

Scientific nationalism: Reuniting science, culture, and conscience



ASHVATHAMAN

Science and nationalism are often treated as different realms-one devoted to universal truth, the other to collective identity. But in India's civilisation, they were never separate.

The pursuit of knowledge was always linked to the service of the nation and the upliftment of humanity. From ancient astronomers to modern innovators, our thinkers saw no contradiction between devotion and discovery.

Scientific Nationalism is the rediscovery of that balance. It calls for the reunion of intellect and integrity, innovation and identity, discovery and dharma. It reminds us that science becomes meaningful only when guided by conscience, and that nationalism becomes transformative only when empowered by knowledge.

The Civilisational Context

India has always viewed science as sacred. The Vedas described the universe as Vijnanastructured intelligence guided by order. Aryabhata's astronomy, Charaka's medicine, and Susruta's surgery were all acts of inquiry rooted in humility. Knowledge was not pursued for dominance over nature, but for harmony with it.

When Dr APJ Abdul Kalam spoke of transforming India Into a developed nation through science and technology, he did not separate innovation from ethics. His laboratories were spaces of national service, where rockets and satellites became symbols of collective aspiration.

That spirit defines Scientific Nationalismthe conviction that the advancement of knowledge must strengthen the nation and uplift humanity.

The Philosophy

The foundation for this idea lies in Pandit Deendayal Upadhyaya's Integral Humanism, which envisioned balanced growth of body, mind, heart, and soul.

The body stands for material and technological progress.

The mind for intellectual inquiry.

- The heart for cultural rootedness, and
- The soul for spiritual and moral direction.
- When these four dimensions work in harmony, science becomes humane, and nationalism becomes enlightened. Progress without morality leads to arrogance; patriotism without knowledge leads to stagnation. Scientific Nationalism harmonises both.

Science with Conscience

Che Dioneer

Modern technology gives humanity immense power, but without conscience, it risks dehumanisation. Artificial Intelligence can empower or exploit; biotechnology can heal or harm. The moral compass that guides these forces determines their impact.

Scientific Nationalism Insists that the Indian approach to science must be value-based. It does not seek to copy global models but to enrich them with civilisational wisdom. In Bharars

worldview, knowledge divorced from ethics is ignorance in disguise. True progress is that which enhances life, not that which endangers it.

The Need for Cultural Confidence

For centuries, India's scientific contribution was undervalued due to colonial narratives that separated science from spirituality. Yet, history records that Indian civilisation has always been scientific-not in imitation of others, but through its own method of observation, reasoning, and reflection.

Today, as India rises in space, nuclear, and digital technologies, we must also rise in cultural confidence. When a student codes in Tamil, when a scientist researches in Hindi, or when an innovator designs for rural India, science becomes part of our living culture. It ceases to be foreign and becomes familial.

Education for a Self-Reliant Bharat

Scientific Nationalism calls for an education system that teaches not only how to think, but also why to think. The National Education Policy (NEP 2020) is a vital step towards that goal. It encourages learning in mother tongues, multidisciplinary education, and ethical reasoning-principles that bridge the divide between intellect and identity.

When a student in a small town learns robotics in their native language, they are not just acquiring technical skill-they are inheriting a civilisational legacy. They become part of a tradition that sees knowledge as service, not status.

From Laboratories to National Mission

Every innovation that serves the nationfrom Chandrayaan to Digital India-embodies Scientific Nationalism in practice. ISRO's missions, indigenous vaccine development, and the semiconductor drive all show that India's path to self-reliance lies not in isolation, but in rooted innovation.

For Bharat, the laboratory is a temple and innovation a form of worship-because knowledge that serves people is sacred.

The scientist and the soldier serve the same mother-one by defending her borders, the other by expanding her horizons.

The Way Forward

To embed Scientific Nationalism into national consciousness, three key steps are needed:

- Integrate ethics into science education.
 Every engineering, medical, and research programme must teach the moral implications of innovation.
- Promote regional-language research.
 Translating core scientific materials into Indian languages will democratise knowledge and bridge the urban-rural divide.
- Link research with social reform. Encourage scientists to focus on national challengeswater, energy, healthcare, and agriculturewhere technology directly uplifts society.

Science must no longer remain the privilege of a few; it must become the power of the many.

The Moral Compass of the Future

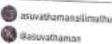
Scientific Nationalism is not hostility towards the world; it is humility before our own potential. It invites the global community to see science not as a race, but as a relationshipa collaboration between intelligence and compassion. Dr Kalam once said, "Dreams are not what you see in sleep; they are those that keep you awake." Scientific Nationalism is that wakeful dream-of a Bharat that creates, innovates, and leads with moral strength.

- Science gives us power.
- Culture gives us direction.
- Conscience gives us purpose.

When these three unite, Bharat will not merely follow the global race for progress-it will lead it with wisdom and humanity.

Scientific Nationalism is not a slogan. It is a renaissance — a reawakening of India's timeless spirit through the instruments of modern science.

A Astwathaman is Tamil Nadu BIP State Secretary, and founder of Project Tamil Al and the Integral Humanism Foundation





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\$1 lakh H-1B fee isn't protection, but a regulatory sledgehammer that will hurt Americans

America's Got Needs Talent



onald Trump's proclamation in September to impose a \$1 lakh entry fee on each new non-immigrant highskilled worker (H-1B vise holder) was pitched to protect American jobs. But the data tell a different story. Far from safeguarding the US labour market, the fee threatens to increase costs for American employers, weaken US competitiveness in technology and healthcare, and harm citizens - exactly the opposite of its stated aim.

Has Trump realised this, and softenedhisstance? In an interview with Fox News earlier this month, he said: 'You also do have to bring in talent." When the host said the US has plenty of talented people, Trump replied, 'No, you don't ... You don't have certain talents. and people have to learn.' Trump's MA-GA-America First base is not happy

with this turnsround.

But data tell their own story According to a November 2025 National Foundation for American Policy (NFAP) report, 'H-1B Petitions and Denial Rates in FY2025', companies such as Innovation-driven Amazon, Meta Platforms, Microsoft and Google were top H-1B sponsors in FY25 (4,644; 1,555; 1,394; and 1,050 approvals respectively). These are companies that also invest heavily in

AI and other advanced fields. These are not labour hires, as has been claimed by policymakers. NFAP's report notes median salary (in FY24) for a. H-1B professionals in computer-related occupations of



Weapon of mass destruction

around \$1.25 lakh, with an average of \$1.36 lakh. Further, 63% of approved H-1B beneficiaries carned a master's degree or higher, indicating that H-1B visa holders are highly skilled professionals sought in the US and other countries. By slapping a six-figure fee on each of these hires, the US essentially burdens its most innovation-driven firms with a 'talent tax'.

Interestingly in FY25, only three Indian-based companies - TCS, LTIMindtree and HCL America - appeared among the top 25 employers with appro-

By stapping a

six-figure fee on

H-1B hires with a

master's degree

or higher, the US

burdens its most

firms with a

'talent tax'

ved H-IB petitions for initial employment (new hires). In FY25, the top seven Indianbased companies had only 4,573 H-1B petitions approved for initial employment, adrop of 70% from FY15 and 37% fewer than in FY24

The Trump regime's rationale rests on protecting American workers becau-

se of rising unemployment in tech. But NFAP finds the opposite: unemployment in computer and mathematical occupations declined from 3.4% to 3.0% between August 2024 and August 2025. In architecture and engineering, it fell from 1.7% to 1.4%

> Large US firms need to rely on international

talent, and NEAP analysis found that 70% of full-time graduate students at US universities in selected Al-related fields are international students. Retaining them in the US after graduation. is essential to US leadership in AL according to a congressional com-

mission. At a time when the US is racing China in AL cloud and robotics, raising the hurdle for these critical hires makes no

strategic sense.

One of the most underemphasised impacts of the entry fee is on the healthcare sector, where immigrant professionals play a central role. NFAP, in another November 2025 report, 'The Contributions of Foreign-Born Workers to US Health Care', points out that nearly 19% of healthcare workers in the US are foreign born. That includes physicians, nurses, pharmacists and home health aides.

One of the first lawsuits against the \$1 lakh fee came from Global Nurse Force, a California-based staffing company that has placed more than 10,000 nurses at over 175 hospitals worldwide. It submitted in court filings that the six-figure fee will immediately halt international nurse recruitment, force it to shut down its US operations, and worsen hospital staffing shortages - particularly harming ICUs, emergency rooms and surgical units, with outsized impacts on rural and inner-city communities.

A \$1 lakh fee means hospitals, nursing homes, homecare agencies and medical research firms will face sharply higher costs for every foreign-trained specialist or nurse they'd otherwise sponsor. That cost-either absorbed or passed on -ultimately raises premiums, lowers staffing levels, and undermines access to carefor ordinary Americans.

While well-known companies garner the most attention, contrary to popular perception, this isn't just a fee on mega giants. In FY25, 28,277 US employers petitioned for H-1Bs; 61% hired only one person. Over half of all new applications went to employers with 15 or fewer approvals. These are universities, hospitals, regional tech firms and manufacturing plants—not just big names.

The NFAP report highlights a 2020 study, 'How Do Restrictions on High-Skilled Immigration Affect Offshoring? Evidence from the H-IB Pro-

> 70% of full-time graduate students at US universities in selected Al-related fields are international students. Retaining them in the US after graduation is essential

gram', showing that when US firms are denied H-1Bs, they often move jobs abroad. For most global multinational companies, this is at almost a 1:1 rate. The results demonstrate an important unintended consequence of immigration restrictions: the movement of jobs and talent abroad, with major implica-

to US leadership in Al

tions for US competitiveness,' it states. NFAP reminds us that the annual H-1B cap of 85,000 represents only 0.05% of the US labour force, a rate that hasn't kept pace with the rise of a trillion-dollar digital economy. The \$1 lakh H-1B fee isn't a protective device for American workers. It's a regulatory sledgehammer that risks hurting American citizens. Trump's right to have second thoughts about it.

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MILLENNIUM POST (P-8), 25 NOVEMBER 2025

BEYOND

Missing Lessons in Our Classrooms

Without compassion, connection, and moral grounding, even educated individuals become vulnerable to extremist narratives. India must rebuild an education system that shapes hearts as much as minds



OP SINGH

THE WRITER IS PRESIDENT & CEO, INDIAN POLICE FOUNDATION

The Delhi blast case underscores a deeper crisis: brilliant minds without emotional grounding are vulnerable to hate, proving that true education must include empathy and humane values

n public debates on education, we often speak with pride about highscoring students, competitive examination toppers, and the technical brilliance of India's young professionals. We celebrate intellect, analytical power, and career success. But in this celebration, we tend to overlook something far more fundamental: education of the heart. True education is not merely about sharpening the brain; it is about nurturing compassion, empathy, emotional understanding, and a sense of connection with society. Without these softer, deeper values, even the brightest minds can become vulnerable to dangerous ideologies. The recent terror blast in Delhi, in which several welleducated medical professionals were arrested, is a disturbing reminder of this gap.

A Disconnect Behind Degrees

For decades, policymakers have believed that education acts as a shield against. radicalisation. The assumption has been simple: a person equipped with knowledge, logic, and professional prospects is less likely to be misled. However, the Delhi blast case has exposed the cracks in this belief. Investigations revealed that the terror cell behind the attack was not made up solely of underprivileged or disaffected youth, Instead, it included doctors and other white-collar professionalspeople who had undergone rigorous academic training. who had years of medical education behind them, and who were entrusted with saving lives. Yet, they became instruments of death

Their technical qualifications could not stop radicalisation because radicalisation does not operate at the level of the brain alone. It enters through emotions—burt, grievance, alienation, identity confusion, or the pull of belonging to a closed group. It



In advocis, students are not tought how to handle angue, how to understand others' pain or how to bridge differences

thrives in spaces where empathy, reflection, and social responsibility are weak. A highly intelligent but emotionally unanchored individual is, in fact, easier to manipulate. A sharp brain without a compassionate heart becomes a tool, not a safeguard.

Radicalisation begins subtly—often with a sense of disconnect. A young person may feel ignored by society, undervalued, or missanderstood. They may perceive real or imagined injustices with no emotional support to process them. Into this psychological vacuum enters propaganda packaged cleverly, targeting emotional valuerabilities.

What prevents a young mind from alking down this path is not just knowledge, but connection: connection with family, connection with national identity and connection with humanitarian values across religions. Compassion and empathy act as shields. They create a moral hesitation before violence. They encourage the young person to question hateful narratives. They cultivate an instinctive rejectualization and instinctive rejectualization and instinctive rejectualization.

tion of anything that harms innocent lives.

In schools across India, children are often taught equations, grammar rules, and historical dates. But many are not taught how to handle anger, how to understand others' pain, or how to bridge differences. Teachers, pressed for syllabus completion, rarely have the time to focus on emotional literacy. Parents, overwhelmed by competition, prioritise achievement over character. The result is predictable: we produce individuals who know how to think, but not how to feel.

The Delhi Blast Case: A Warning Society Cannot Imore

The involvement of medical professionals in the recent terror blast must be viewed in this larger context. Doctors represent one of the most trusted and emotionally demanding professions. Their very calling is built on empathy, patience, and respect for the sanctity of life. Yet, the fact that a group of them could allegedly participate in a terror operation exposes the depth of their emotional disconnect.

Here were individuals trained in anatomy, surgery, and healing-but untrained in compassion for society. Their white coats and degrees did not shield them from narratives of hatred. Their education equipped their minds, but left their hearts unattended. The true teaching of every religion-Hindulsen, Islam, Christianity, Süchlism, Buddhism-is rooted in compassion, mercy, and non-violence. No scripture permits the killing of innocents. Yet, when interpreted through an extremist iens, religious verses are distorted into weapons. Only a morally educated heart can recognise this distortion and reject it.

In this case, the professionals involved are believed to have been influenced by extremist ideology that claimed to be religious but violated the very essence of faith. This disconnection from the true spirit of religion was possible because they lacked grounding in empathy, reflection, and humane values. In short, their emovalues. In short, their emotional education was missing. What Must Change Now

India must urgently rethink its educational priorities. Moral education cannot be a one-period-a-week
ritual. Compassion cannot
be outsourced to NGOs.
Emotional literacy cannot
be left to chance. We must
place empathy and values at
the centre of learning, not at
its fringes.

 Schools must encourage dialogue, not rote learning.

 Teachers must be trained to identify emotional distress and isolation.

 Universities must create spaces for interfaith and intercultural engagement.

 Family conversations must include values, not just marks and achievements.

 Religious institutions most emphasise compassion, the true essence of every scripture.

When a society teaches children to care, to question hate, and to value life, radicalisation has no space to grow. The Delhi blast case is not just a security issue; it is a societal alarm bell. It tells us that we must stop equating education with degrees and marks. Education must produce human beings who are emotionally balanced, morally responsable, and spiritually grounded.

A society becomes unsafe not because brains become sharper, but because hearts become harder. If India truly wants to counter radicalisation, it must invest not only in intelligence agencies and counter-terror operations, but in something far more powerful-the emotional education of its children and youth. When hearts are educated, minds cannot be misled. When empathy is strong, hatred finds no place to hide. And when compassion becomes the core of education, the path to peace becomes clearer, stronger, and lasting.

Views expressed are personal

Why life skills should be essential in today's education



RITU JAWA

The educational landscape is constantly evolving, and the emphasis is gradually shifting from conventional academic skills to encompass broader student development. Leading educators increasingly assert that life skills are not optional but integral parts of the curriculum. Creativity, problem-solving, emotional resilience, and effective communication are just a few of the qualities that should be at the heart of an education that prepares students not only for tests but for all that life demands of them in the future.

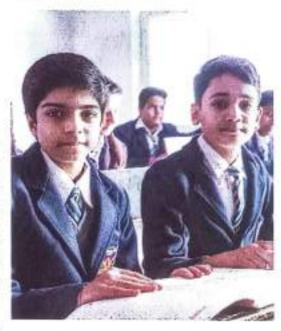
The focus of educational structures has predominantly been on cognitive knowledge, which is important, but practical and social skillsessential for success in life-have often been minimised. Students today face an incredibly complex array of challenges, including mental health pressures, rapid technological advances, and intricate social dynamics. Teaching life skills in the curriculum equips students to face these challenges with confidence, adaptability, and maturity.

Education that emphasises life skills is crucial for developing creativity and a growth mindset, both of which are essential for personal and academic success. When students tap

into their creativity, they are more likely to develop innovative solutions to problems rather than relying solely on memorisation. Likewise, a growth mindset enables students to believe that anyone can improve their skills and capabilities through hard work and persistence. Together, these attributes foster resilience and lifelong learning, instilling the understanding that failure or setbacks are opportunities to learn and grow.

It is equally important to prioritise emotional intelligence within life skills education. Awareness of emotions, the ability to manage and regulate them, and the capacity to express them appropriately form the foundation of positive mental health and healthy interpersonal relationships.

Research indicates that students who engage in life skills-based education demonstrate enhanced coping abilities, higher self-esteem, and lower anxiety and stress levels than their peers. This holistic development benefits students individually while collectively creating a warm and harmonious learning environment. Critical thinking, decision-making, and commu-



nication skills are also vital in today's rapidly changing society. These skills empower students to analyse information critically, make evidence-based decisions, and clearly articulate their ideas-capabilities that are valuable in both higher education and the modern workforce. Research shows that investments in social and emotional learning yield significant long-term returns, both academically and professionally.

personal benefit but also contributes to addressing broader
societal challenges. Schools that
cultivate self-awareness, empathy,
and social responsibility help create

communities that value inclusion and actively tackle social issues. Teamwork, conflict resolution, and respect for diversity are essential skills for fostering productive and peaceful societies.

Ultimately, life skills form a critical bridge between creativity and mindset. They provide students not only with knowledge but also with the wisdom, resilience, and empathy needed to navigate future challenges. Life skills should be embedded in the curriculum to develop flexible, confident students capable of contributing meaningfully to society. Educational leaders emphasise that the mission of schooling extends beyond the transmission of knowledge to nurturing well-rounded, capable, and compassionate citizens. Life skills lie at the heart of this mission and must be prioritised within every education system.

The author is Principal, Dharav High School, Gurugram



ritujawa

STUDY ABROAD

Alan Blinder on the Trump effect on international student numbers across US colleges

he Trump administration has explicitly sought to curb the enrolment of college students from abroad, and its broader quest to remake the American higher education system has unnerved prospective pupils and led universities to limit graduate school admissions.

In a recent report, the Institute of International Education said that the overall number of international students on American campuses — including students who started in prior vears - was nearly steady, declining about 1 per cent from the last academic year. Although information about international students can be murky and caveat-laden, the slight change roughly aligns with separate US Department of Homeland Security data about students on visas.

But the downturn in new enrolments suggests that the United States could see steeper decreases in the coming years, as current students finish their studies or leave their campuses for other reasons.

The data released recently as part of a project backed by federal money was somewhat narrow, stitching together statistics from less than a quarter of the nation's degree-granting colleges and universities. But it included schools that often account for large international student counts, and it is seen by officials in higher education as an important snapshot of enrolment.

The institute said 67 per cent of the approximately 825 institutions that provided data reported decreases in new enrolments from abroad. Amid months of Trump administration wrangling over immigration policy, nearly all of those schools said that concerns about obtaining student visas contributed to falling enrolments, and more than two-thirds pointed to travel restrictions.

American Dream



GROUND ZERO: In May 2025, the US Department of Homeland Security revoked Harvard University's certification to host international students

The survey found a rise in new undergraduate students, reflecting a rebound from pandemic-era declines, but a 12 per cent decrease among new graduate students. (The majority of international students in the US are graduate students.)

Although the data from this fall was stark, it was also an extension of a trend from last year.

In the fall of 2024, according to the report, American schools reported a 7 per cent decline in new international enrolments. The nation's 1.2 million international students are still a key population for universities, accounting for roughly 6 per cent of total enrolments. India and China, the world's two most populous countries, together

Bang, Bang, Bust

- May, 2025: US embassies around the world asked to stop scheduling appointments for student visas; official memo says social media vetting would be intensified
- June: Resumes visa appointments; applicants asked to make social media accounts public for "enhanced screening*

Members of the board that oversees the Fulbright Program, which facilitates

international student exchanges, resign

- August: US State Department revokes 6,000 plus international student visas citing violation of US law and overstays. Also proposes new rule to limit their study period in the US
- October: Puts out plan to cap international undergraduate students at 15 per cent per campus, with no more than 5 per cent from any single country.

Source: US Department of State website and news reports

sent nearly 6,29,000 students to the US.

be essential income sources for American colleges and uni-International students can versities, and higher education officials have been anxious for months about how President Donald Trump's immigration policies might affect that revenue stream. The recent report suggested that some of the most dire forecasts for this fall, like one that floated the possibility of a 40 per cent decline in new enrolments, had been overwrought.

The Trump administration has also sent mixed signals about its intentions for international students.

A sputtering Trump administration proposal for an agreement between the government and American schools floated a 15 per cent cap on international students as recently as last month. And since Trump took office, the government has cancelled visas for some students, delayed screening interviews and imposed travel restrictions.

n May and June, the government tried to block Harvard University from enrolling any international students. A federal judge blocked those efforts.

But in an interview this month with Fox News host Laura Ingraham, Trump stood by a plan to allow up to 6,00,000 Chinese citizens to obtain student visas. Many students, he noted, pay significant tuition costs.

"It's not that I want them, but I view it as a business," Trump said. Draconian cuts to international students. Trump warned, could "destroy our entire university and college system".

The higher education industry is also clashing with Trump over a recently announced \$1,00,000 fee for new H-1B visas, which colleges and universities rely on to fill various jobs.

In court filings last month, academic officials detailed how the visa fee could derail hiring. unleashing consequences for research and teaching.

Publish or perish: making sense of India's research fraud epidemic

India's higher education sector faces a research fraud crisis due to a 'publish or perish' culture. Faculties prioritise publications over teaching, undermining academic integrity and neglecting the needs of the student population

Pushkar

esearch fraud is a global problem and has become worse due to the growing use of Artificial Intelligence (AI). The problem is even more acute in India's higher education sector where both the number of journal publications and retractions are growing rapidly. However, journal retractions do not capture the scope of research fraud since it is impossible to know the exact number of fraudulent publications that escape notice.

Publishing over teaching

Most observers blame the 'publish or perish' culture for India's research fraud epidemic. However, a prior issue is the preference that the University Grants-Commission (UGC) and Higher Education Institutions (HEIs) give to publishing — which is different from research — at the expense of teaching for faculty members to advance their careers. This institutional bias drives a preference among faculty members to publish papers and is rewarded by promotions and other benefits at the workplace, whereas there are no significant incentives for better teaching.

The rationale to privilege publishing over teaching comes from two main considerations. The first stems from national and global university rankings, which have become ubiquitous and are considered to be of great value by the government, the HEIs themselves, and by students. These rankings reward publications but not teaching. HEIs are therefore incentivised to insist that their faculty publish. For private universities, the number of students they admit every year matters a great deal, and achieving higher rankings than their competitors is seen as necessary to attract more and better students. Public institutions do not want to be left behind either.

The second consideration is the widespread belief that faculty members conducting research improves teaching and hence student learning outcomes. However, the evidence does not quite support this belief.

The voluminous research on the research-teaching link has examined a diverse set of issues including the specific mechanisms at work, the fuzziness and diversity of the multiple variables used to understand the relationship, and both quantitative and qualitative research. However, there is no broad consensus that the relationship between them is significant or even that there is one. If there is some sort of soft consensus, it is that the context often matters.

Both these considerations likely contributed to the UGC's decision to introduce the Academic Performance Indicator (API) in 2010 as part of the Career Advancement Scheme (CAS) for faculty members' promotions. The API established a clear bias for publications in assessing faculty members. Despite several amendments over the years, there has been no fundamental change to the API in terms of the emphasis on publications. The 2025 UGC draft regulations for the appointment and promotion of teachers in order to maintain academic standards, it claims, will reduce focus on quantifiable metrics such as publications. But for now, the publishing madness remains ascendant.

A return to teaching

If we turn to context, there are at least two reasons that render the emphasis on research questionable, on ethical and practical grounds.

First, the faculty members at all types of HEIs are expected to publish - whether at colleges devoted to undergraduate teaching, universities that are teaching-cum-research institutions, and specialised research centres which typically run only PhD programmes. There is no thought given to context: whether the university or college has the necessary physical infrastructure (libraries and laboratories for example), human capital (research-capable faculty members), academic environment (a sufficient population of postgraduate students and academics in specific disciplines), sufficient research funding, and a fair or even reasonable balance

between the teaching, research, and administrative responsibilities of faculty members. Most HEIs fall short on many of these parameters. Without considering these issues, the emphasis on research and publishing is meaningless.

The outcome is eventually predictable. Given the limitations of most HEIs, the idea of 'publish or perish' is taken quite literally. Rather than carry out actual research, faculty members and even students churn out fraudulent papers for their HEIs to secure university rankings and for them to secure individual benefits. And publishers monetarily benefit from these publications and also participate in the scam.

Second, 80% of students at India's HEIs are undergraduates who need better teachers rather than competent researchers. Given that the research-teaching link is dubious and that most HEIs do not have the necessary research capabilities, it should follow that those teaching at undergraduate institutions should focus on teaching.

In the end, it appears that the only logic to prefer research over teaching is to help HEIs attain university rankings and to help faculty members secure individual gains, both of which are the main drivers of research fraud, and neither of which contributes in any way to India's knowledge sector.

Pushkar is director at The International Centre Goa. Views are personal. MILLENNIUM POST (P-7), 26 NOVEMBER 2025

GLOBAL CLASSROOMS

Rethinking Academic Globalisation

As higher education globalises, institutions must rethink mobility, collaboration, and access—crafting internationalisation strategies anchored in equity, relevance, and long-term academic impact



AICHIL BHARDWAJ

THE WRITER IS VICE DEAN AND DIRECTOR - OFFICE OF INTERNATIONAL AFFAIRS & GLOBAL INITIATIVES O P JINDAL GLOBAL UNIVERSITY

In a connected world, universities must build global partnerships aligned to student needs, institutional goals, and societal demands, delivering measurable outcomes

n the 21st century, universities across the world have increasingly recognised internationaliation as a defining element of their institutional identity and strategic growth. Traditionally, higher education institutions engaged in global collaborations primarily through student exchanges, faculty visits, and occasional joint research initiatives. However, the contemporary landscape of internationalisation has evolved significantly. Today, it encompasses far more intentional, integrated, and outcome-driven approaches aimed at enriching multicultural exposure, enhancing global competencies, and generating collaborative knowledge. The modern way of internationalisation cuts across a holistic matrix of institutional aspirations, in-house capacities, and carefully cultivated global partnerships. As universities strive to prepare students as industry-ready professionals and global citizens, their internationalisation strategies are undergoing a transformative shift toward value-driven, bespoke, and sustainable models.

At the core of this transformation lies a broader understanding of why universities pursue global engagement. International collaborations are no longer limited to symbolic partnerships or prestige-building alliances. Instead, they serve critical functions: exposing students and faculty to multicultural environments, enabling the exchange of best academic and administrative practices, fostering global citizenships and generating interdisciplinary knowledge through collaborative research and teaching. These objectives reflect the increasing interconnectedness of global societies and economies and underscore the responsibility of universities to prepare graduates capable of navigating complex global challenges.

Despite this recognition, traditional models of internationalisation have often fallen short in producing substantive, measurable outcomes. Many collaborations have existed merely on paper, yielding limited benefits for students and faculty. As a result, universities today are compelled to rethink how global partnerships are structured, implemented, and evaluated. A modern value-based mechanism is essential, especially one that ensures collaborations translate into meaningful academic experiences, skill development opportunities, and impactful research. This mechanism must consider the institution's internal resources, the aspirations of its academic community, and the potential of its global net-



The future of internationalisation lies in kespoke, discipline-specific pertnerships not broad declarations

works. Such an integrated and strategic approach ensures that internationalisation is not an isolated activity but rather a core component of institutional culture and development.

The need for bespoke models of internationalisation has therefore become more prominent. Instead of relying on conventional, one-size-fitsall models of collaboration, universities are now tailoring their global engagement strategies to reflect the specific needs of their students, faculty, and institutional goals. For instance, while student mobility has long been considered a primary mode of international exposure, it no longer appeals uniformly to all students or institutions. Traditional long-term mobility programmes, such as dual degrees, master's progression pathways, or semester-long. exchanges, may be effective for some, yet they fail to attract large numbers at many universities. Factors such as academic structure, programme compatibility, cultural preferences, and financial constraints often influence a student's ability or willingness to

Consequently, universities increasingly recognise the value of short-term mobility programmes. These programs, ranging from two-week study visits to two-month research immersions, offer students an accessible and immersive opportunity to experience global higher education and explore different cultural or geographical contexts without committing to lengthy stays abroad. Short-term models mitigate barriers related to finances, academic calendars, and personal responsibilities while still achieving the essential objective of global exposure. Their rise

highlights a key principle of modern internationalisation: strategies must be grounded in authentic assessments of student and faculty needs. Before framing an internationalisation strategy, institutions must conduct thorough evaluations of their community's requirements, capacities, motivations, and constraints. This ensures that international opportunities are both relevant and meaningful.

Financial considerations further complicate traditional mobility programs. Even with scholarships, many students and faculty struggle to afford the costs associated with international travel, accommodation, and living expenses. In response, universities have innovated with the concept of global classrooms, enabling international exposure without necessitating travel. Through virtual guest lectures, collaborative online courses, and faculty-led digital exchanges, global classrooms offer an inclusive, financially feasible form of international engagement. These models hinge on careful mapping of teaching and research interests among collaborating faculty. which is an essential prerequisite for ensuring that virtual interactions are academically meaningful. Global classrooms also democratize access to internationalisation, allowing students from diverse socioeconomic backgrounds to benefit from international academic experiences.

Furthermore, emerging programme-specific collaborations, rather than broad institution-wide agreements, are becoming a hallmark of modern internationalisation. Universities are moving away from generic MoUs toward targeted partnerships

that enrich specific academic programmes or disciplines. Such collaborations enable institutions to offer specialised global experiences, such as joint design studios for architecture students, cross-border most courts for law students, or multinational business consulting projects for management students. These bespoke collaborations provide students with high-quality. context-specific global exposure and ensure that internationalisation aligns directly with programme objectives. Top-tier universities increasingly adopt such models to offer their students a "crème de la crème" global educational experience.

Faculty engagement also represents a critical element of the modern internationalisation process. Robust global partnerships depend on faculty members who are genuinely interested in and capable of collaborating across borders. Identifying such faculty champions, those motivated to participate in co-teaching, joint research, and international academic initiatives, is essential. To support this bottom-up enthusiasm, institutions can adopt a top-down facilitative approach. Bilateral thematic workshops, joint research symposia, and collaborative academic conferences create structured opportunities for faculty from different institutions to connect and explore areas of mutual interest. These engagements often serve as catalysts for sustained academic collaborations, resulting in co-authored publications, collaborative research grants, and shared pedagogi-

cal innovations. In conclusion, the modern way of internationalisation among global universities represents a shift from symbolic alliances to meaningful, context-specific, and strategically designed collaborations. It emphasises holistic integration of global best practices, intercultural learning, and institutional capacity-building. As universities navigate an increasingly complex global environment, they must adopt internationalisation strategies that are flexible, inclusive, and responsive to the diverse needs of their communities. By embracing bespoke mobility models, virtual global classrooms, programme-specific collaborations, and faculty-driven initiatives, institutions can ensure that internationalisation serves as a transformative force towards preparing students as global citizens, fostering innovative research, and contributing to a more interconnected and collaborative world.

Views expressed are personal

nut 2

Teachers carry the weight of constant decisions



SAKSHI SETHI

THE PIONEER

In a world obsessed with productivity, efficiency and optimisation, one profession has been quietly doing superhuman work long before corporate boardrooms invented terms like "decision fatigue." That profession is teaching. The humble teacher, often mocked, often blamed and occasionally praised, is expected to make thousands of decisions every day with the accuracy of a neurosurgeon and the patience of a saint. Yet people still say teachers get far too many holidays, which remains one of the biggest myths. Teachers are "off" about as often as the internet is off.

Every morning, long before sunrise, teachers are already dealing with mental chaos: Should today's warm-up change? Why is this student silent today-worry or mischief?

Will some parent accuse me of ruining their child's life because I corrected a spelling mistake? Decisions crowd a teacher like mosquitoes in monsoon season-annoying, nonstop and unavoidable. Still, society pretends teaching is simple. As if managing teenage behaviour, impossible parental expectations, admin micromanagement, syllabus deadlines, moral responsibility and ensuring no child blows something up is a routine task. Teachers are expected to float through all this with a calm smile while their mind feels like a browser with 89 tabs open-half frozen, the rest crashing. Decision fatigue may be a trendy term for productivity experts, but teachers have lived it forever. They feel it before breakfast. While ordinary people decide whether to wear a blue or a The Pioneer They manage a fragile human ecosystem where one sentence can harm or heal. white shirt, teachers decide whether the lesson can work without the projector, whether seating needs rearranging to prevent a mini-riot, and

whether Rahul is genuinely sick or simply avoiding long division. This isn't multitasking; it's battlefield planning.

And then there's the myth that teaching ends with the bell. The bell simply signals that the teacher is moving from teaching duties to paperwork, counselling, planning lessons for 40 different learners, and responding to parent emails that sound like they come from a parallel universe. After-hours work is not extra-it is normal. Lesson plans, setting question papers, checking notebooks that

multiply like weeds, preparing remedial notes, attending meetings that achieve nothing, worrying about mispronouncing a student's name-teachers are always switched on. More than switched on, they are glowing like a tired neon sign. Despite this, teachers have somehow become villains in public debate. They are always too somethingtoo strict, too soft, too modern, too old-fashioned, too loud, too quiet. Society expects them to create ideal citizens but judges them like reality-show contestants watched by people who haven't entered a classroom in years. Decision fatigue shapes a teacher's day.

Every choice-correcting, calming, pausing-demands emotional energy. where one sentence can harm or heal, 1865 making thousands of decisions daily. Yet they are celebrated once a year and

ignored otherwise. Their burnout is dismissed while society still expects endless patience and creativity. Teachers are exhausted because the system is unreasonable. Humans are not built for constant decision-making, yet teachers live it daily. Anyone who thinks teaching is easy should spend one day in a classroom and see how teachers hold society together through every decision.

The writer is and educator

Finding dignity in an unkind world

LIM WOONG

t is not difficult to see that online platforms have become the primary spaces where our youth gather, talk, argue, chase trends and figure out how to live with others. For students, social media functions almost like a parallel reality they cannot ignore. We often say that libraries shape their habits of mind, yet it is social media where their sense of right and wrong is tested, where they learn, sometimes painfully, to read situations, protect themselves and form a sense of community and belonging. Digital literacy, in this sense, is not just an academic skill but a foundation for navigating modern society.

Yet the same online spaces that encourage connection can quickly turn hostile. Research on dark personality traits shows that narcissism. Machiavellianism. psychopathy and sadism - often referred to as the dark tetrad - thrive in environments marked by anonymity. low accountability and the instant gratification of provoking a reaction. Social media provides ideal conditions for malice and troubled minds. Trolling, harassment, vanity, scams, fake news and deepfake content are predictable outcomes when empathy thins and attention becomes currency.

Teachers feel these effects acutely. Studies in educational settings describe a small but significant group of children - sometimes as early as kindergarten- who pressure peers, exploit classmates' goodwill, refuse responsibility, or display striking emotional bluntness. For teachers, these behaviours stop being clinical cases in a textbook the moment they enter the classroom; they become emotional burdens they can't help but face every day.

Many enter the profession driven by a passion for learning and mentorship, only to find themselves face-to-face with students (and often parents as well) whose behaviour resists trust and the very guidance meant to help them. The result is teacher burnout: an erosion of moral confidence and professional identity defined by the painful gap between who teachers hope their students can become and who they sometimes reveal themselves to be.

My own sense of distillusionment deepened recently while watching an SBS documentary titled *Savage Hours" about the serial killer Lee Chun-iae. The programme aired his voice and memories with an oddly poetic tone, as if inviting viewers to empathize with him. It reflected a troublingly romantic view of evil, the belief that darkness is misunderstood trauma or that we owe even the most sadistic individuals sympathy and forgiveness. But darkness is not always a wound: sometimes it is simply darkness. To sentimentalize cruelty is to misread it and, more importantly, to betray the victims whose lives were irreparably harmed.

Moments like these make cynicism feel like the only rational stance. Yet something unexpectedly hopeful often rises in its place. Recently, my graduate students led a seminar discussion on the "Light Triad," a psychological frame work emphasizing, humanism, compassion and moral clarity. Unlike the dark triad, associated with exploitation, emotional coldness and ruthless greed, the light triad highlights the quieter but equally real dimensions of kindness and empathy that hold together authentic human relationships.

At the end of their presentation, my students shared something more personal: a YouTube music video titled "The Princess Code" you must watch it for yourself. At first glance, the video appears playful. Yet its lyrics offer a surprisingly resilient worldview. They encourage greeting each day with a smile. finding small joys in the mirror. staving composed amid chaos. accepting hardship as part of one's story, and above all, not giving up. What may initially sound like self-centred positivity emerges as a declaration of self-respect and emotional maturity. It reflects the belief that even in an unkind world. one can still choose dignity.

For many teachers, this mindset becomes Teflon against so-called student "villains." Those who endure difficult students do not rely on duty alone. They draw strength from a quiet, persistent confidence that their work matters, that kindness



is not naive and that spiteful behaviour, online or in person, does not define the limits of what humanity can be. For them, the light triad is not theory but lived experience.

This offers an important reminder: Digital platforms expose us to some of the worst sides of human behaviour, and the same dynamics too easily seep into classrooms, where that darkness plays out with little restraint. We cannot eliminate the internet's darker corners, nor can we fully reform those who take pleasure in cruelty. Yet we can cultivate what is good in the overwhelming majority of us: humility, compassion and the courage to remain kind and to refuse malice when it would be easier to look away.

As long as we tend to the light within ourselves and recognize that same light in others (as found in my students, who must find their way through a world far more complex and less forgiving than the one I inherited), darkness does not prevail. It becomes only a brief chapter in a much longer and more hopeful story of teachers.

The Korea Herald/ANN

TIMES OF INDIA (P-24), 26 NOVEMBER 2025

If you learn and lead, support systems around you will grow

Amita Mirajkar

ike many high school students at the time, I was at a career crossroads – should I pursue medicine (family being in the field) or computers (popular among girls). Today I'm glad I went with my gut feel. The career in the world of software engineering continues to excite me even today. My formative years while working in Pune, inspired me to value good company culture and the impact of technology on businesses. Later, while working in the US, I realised the value of great work ethic, taking pride in one's work, and mutual respect among co-workers.

Adversity can be an opportunity in disguise

During the 2008 economic turbulence, while working in the education sector, channeling online learning opportunities for working adults was a turning point for all of us who went on to become co-founders of Clairvoyant. We experienced first-hand how one could wield technology to uplift communities by enabling them to upskill and reskill. With four dear colleagues as partners leading from the US, my husband and I returned to India to start the India office. Through rough terrains and green pastures, Clairvoyant expanded its global footprint, empowering enterprises across diverse industries at the confluence of data,

CAREER LADDER FOR WOMEN

cloud, and Al. Our team's undaunted support and relentless hard work culminated in a significant milestone – a successful

merger with EXL in 2021. It stood testimony to our collective vision of advancing human potential by creating data-driven ecosystems.

Women need encouragement

No amount of effort is ever enough to encourage more women to take up STEM. Being recognised as one of the 'NASSCOM Indomitable Women in Tech' was a moment that was both exhilarating and humbling for me. I was wrong in my early years to think that women do not need extra support. Over time, I realised that because of societal baggage, women do need deliberate encouragement. Some are born with great support systems, but most are not. We can take

responsibility to fill the gap – all we need to do as seniors in the industry is to encourage women in STEM, create a level playing field, provide mentorship, and ensure diversity is valued. Let's not forget, it's also a two-way-street. Young women need to hold themselves up to high standards and not leave any stone unturned to learn, grow, create value, and lead. Once this is done, you'll notice the support system around you grows, as a virtuous circle.

Amita Mirajkar is co-founder & CEO of Clairvoyant India TRIBUNE, (MAGAZINE-3), 26 NOVEMBER 2025

TIME CAPSULE

YASH PAL (NOVEMBER 26, 1926-JULY 24, 2017)

The people's scientist

BORN in 1926, in Jhang, then a part of British India and now in Pakistan, Yash Pal emerged as one of the most influential figures in the country's scientific and educational landscape. His life reflected the journey



of a nation discovering itself, and his work helped generations of Indians discover the joy of scientific thinking.

After completing his schooling in the years surrounding Independence, Yash Pal pursued physics at Panjab University, earning his MSc in 1949. His academic brilliance soon took him to the Massachusetts Institute of Technology (MIT), where he completed his PhD in 1958. But instead of building a career abroad, he returned home, determined to strengthen India's scientific foundations.

His professional life began at the Tata Institute of Fundamental Research (TIFR) in Bombay. For decades, he worked there on cosmic rays and high-energy astrophysics, contributing significantly to our understanding of particles that travel through space and the Earth's atmosphere. His research placed him among pioneering scientists exploring the universe beyond our visible world.

In the early 1970s, he became the first Director of the Space Applications Centre in Ahmedabad. Here, he shifted his focus from pure research to applied science—particularly the use of space technology to improve life on the ground. Under his guidance, satellites were used for communication, education, rural outreach and development, long before these ideas became mainstream.

From 1986 to 1991, Yash Pal served as the Chairman of the University Grants Commission (UGC). This period saw him champion research in universities and support the creation of institutions like the Inter-University Centre for Astronomy and Astrophysics (IUCAA). But his influence extended far beyond higher education. As the head of the committee that prepared the landmark "Learning Without Burden" report, he argued passionately that schoolchildren should face less rote pressure and more meaningful learning, a principle educators still discuss today.

To the public, however, Yash Pal was best known as the friendly, wise presence on Doordarshan's "Turning Point", where he made complex scientific ideas simple, relatable and even entertaining.

YATHESHT PRATIRAL PHOOL

DECCAN HERALD (P-8), 27 OCTOBER 2025

Breakfast at school needs a national rollout

Catates and Union Territories, including Rajasthan, Kerala, Chhattisgarh, Gujarat, and Delhi, have made a welcome proposal to the Central government towards adding breakfast to the midday meal scheme, which provides free food to children in anganwadis and lower classes in government schools. There has also been a proposal from states, including Karnataka, to extend the midday meal programme, called the PM Poshan scheme since 2021, to class 12. The recommendation to include breakfast in the scheme is not new. The National Education Policy (NEP) proposed it, noting that a nutritious breakfast would be particularly productive for children. In 2021-22, the Ministry of Education proposed inclusion of breakfast in the PM Poshan scheme, but the Finance Ministry turned it down. The parliamentary standing committee on education has also made a reference to this in a report and said the matter was being pursued.

In terms of health and nutrition as a policy imperative, the midday meal scheme has been one of India's landmark initiatives with a lasting positive impact on millions of children and society. Providing breakfast will expand the scope of

the scheme and cover the daily nutritional needs of a vast population of children. The value this proposal brings to millions of poor families in India, which ranks 102nd out of 123 countries in the 2025 World Hunger Index, cannot be overstated. The levels of undernourishment, child stunting, and child wasting are very high in the country. The provision of breakfast to children must be envisioned as a targeted welfare scheme; its outcomes will be more valuable than many sops provided by governments.

Breakfast in the menu can significantly improve nutrition and equity in learning

The Ministry of Education has reportedly estimated that the breakfast proposal would cost about Rs 4,000 crore. This is a negligible budgetary allocation in a country with an annual expenditure of over Rs 50 lakh crore. For this investment, the returns promise to be transformative for future generations and for the country. With the human and physical infrastructure already in place, the proposal is not likely to involve substantial expansion. The governments in Tamil Nadu and Telangana have launched breakfast plans for children. Local bodies, parent-teacher associations and NGOs are running the scheme in Kerala. Karnataka is providing milk, and Andhra Pradesh is providing a ragi malt drink to children, as part of the PM Poshan menu. Considering its takeaways, the breakfast programme needs a national presence and presents a strong case for inclusion in the PM Poshan scheme. Dwg 18

Bringing back Indian-origin faculty will need changes in policy, culture

HE RECENT deliberations within the Indian government, to introduce a scheme aimed at repatriating "star faculty" and researchers of Indian origin from overseas, particularly in the context of the evolving political and academic landscape in the United States, are both timely and commendable. The proposal, which seeks to offer a substantial "set-up grant" to established scholars for creating laboratories and teams in premier Indian institutions, signals a welcome recognition of the urgent need to revitalise our research and development ecosystem.

The motivation behind this move is evident yet varied. The increasing political intervention and perceived challenges to university autonomy and academic freedom at US educational institutions - the locus of a substantial Indian diaspora - create a unique window of opportunity. Global academic talent is now more actively surveying options that offer stability, autonomy, and a conducive research environment. At the same time, the exigency of addressing the long-standing outflow of academic talent, particularly in the STEM fields - the notorious "brain drain" - has never been greater as India positions itself as a global knowledge economy.

As reported in the media, the initial focus seems to be on a small number of priority areas in STEM, which are fields strategically important for national capacity building. This demonstrates a focused and pragmatic approach to strengthening our competitive edge.

While the proposed "set-up grant" is a crucial, necessary step towards financial and operational autonomy, it addresses only one aspect of this complex challenge. As Chintan Valshnav, previously director of the Atal innovation mission, suggests, the key lies in creating a "seamless experience" for a returning academic, that goes far beyond mere policy intent. The disparity in salaries, with a full professor in India earning about \$40,000 annually compared to \$130,000-\$200,000 in the US and around \$100,000 in China, means that we may never match global financial benchmarks. Therefore, the return on investment for these scholars, in addition to financial compensation, must be intellectual and cultural, and in the ease of doing research.

For the scheme to succeed, it requires a structural and cultural transformation extending beyond the grant itself. Policy interventions must include institutionalising administrative insulation — a "red carpet mandate" — that guarantees seamless management of logistics, procurement, and human resources, leveraging, for example,

the recently increased institutional autonomy for non-government procurement. Purther, the scheme must guarantee long-term career security via explicit tenure-track conversion pathways, moving decisively past the fragmentation of previous fellowship-based programmes. In the case of scientific research, policies outlining intellectual property ownership must be formulated and clearly enunciated in the host institutions. For senior academics moving back with families, job opportunities for spouses, housing, and school education opportunities for children need to be thought through. Finally, success depends on a highlevel, public affirmation of academic freedom, insulating the faculty from onerous monitoring



SOMAK RAYCHAUDHURY

The new initiative must be

designed to explicitly address

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Procedural delays, funding

uncertainty, and inadequate

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and scrutiny that is similar to what they are now facing in the countries from where we are expecting to welcome them back.

The proposed short orientation programmes are essential, but institutions must go deeper. Many public institutions have very little experience in employing international faculty and seamlessly integrating them into their system. The culture must shift from a rigid, hierarchical structure to one that actively fosters interdisciplinary collaboration, merit-based advancement, and true academic freedom, the foundational competitive advantage of a world-class university.

India has attempted such programmes before, notably the VAJRA Faculty Programme, which, despite its noble intent for high-impact short stints, has seen modest participation, facilitating collaborations between only about 100 overseas scientists

since 2017-18. The new initiative must be designed to explicitly address the limitations of the past: Procedural delays, funding uncertainty, and inadequate institutional support. The emphasis must shift from transactional, short-term engagements to full-time or longer-term, tenured appointments, perhaps connected to teaching and mentoring groups of students, in order to offer a stable professional home.

The global competition is fierce: Europe is strengthening academic freedom, China offers well-funded recruitment initiatives, and Taiwan is internationalising its system. India's success will be determined not by the size of the initial grant and facilities, but by the depth of institutional and policy re-

form we are willing to undertake. The "emotional pull" of returning home is a powerful, non-financial motivator, but it cannot sustain a career against structural deficiencies.

Finally, media reports seem to imply that these initiatives would be confined to a select number of research-intensive public institutes. Given that over the last two decades, the research landscape in Indian universities has transformed, such that some of the top-ranking research institutions happen to be central and state universities, as well as many in the private sector, there should be careful thought in the placement of these returning academics.

At Ashoka University, an institution founded on the principle of academic excellence and the fostering of critical inquiry, we view this initiative not just as a recruitment drive, but as a strategic inflection point for Indian higher education. At our university, we have witnessed the transformative power of repatriating Indian-origin faculty. They bring not just expertise but an invaluable international perspective on pedagogy, governance, and research best practices. We believe this scheme is an opportunity to not just bring back talent, but to fundamentally upgrade the institutional and cultural fabric of our top research bodies. The government's proposal represents a significant commitment. The onus is now on our premier institutions to commit to the accompanying, and much more difficult, changes in policy and culture that will truly make India the prime destination for academic excellence. The moment to reverse the brain drain and establish India as a global research hub has arrived. We must not let it pass.

The writer is vice-chancellor and professor of Physics, Ashoka University, Sonipat, Haryana. Views expressed are personal

NEXUS OF GOOD

Rebuilding Childhood With Dignity

Mission Parivartan's overhaul of Varanasi Anganwadis shows governance can transform early childhood improving infrastructure, training, attendance, nutrition and learning, offering India a scalable model



ANIL SWARUP

THE WRITER IS AN AUTHOR AND A FORMER CIVIL SERVANT

The impact of Mission Parivartan has been profound. Attendance at Anganwadi centres has increased significantly, from 35 per cent to 80 per cent ission Parivartan, led by a young IAS officer, Himanshu Nagpal, was one of the Awardees of the Nexus of Good Annual Awards, 2025, for transforming Anganwadi centres in Varanasi District, Ultar Pradesh.

The ICDS department and anganwadi. workers play a critical role in the nation's development. Beyond just being a centre for gathering kids, an anganwadi centre is the spot where large-scale problems like malnutrition and pre-school education are tackled. As the country moves towards reaping the fruits of the demographic dividend, investment in children's futures becomes even more critical. In the age group of 6 months to 6 years, a kid is in its development stage where the body and mind of the kid are developing at their best, and therefore it is said that one rupee invested in this stage of life of a kid is as good as Rs 100 spent later for the child's and the nation's development.

With the spirit of making Anganwadi centres as a centre for learning and transforming their landscape into advanced learning centres filled with all the basic requirements as well as advanced learning. infrastructure like smart TVs, BaLa aided structural design, rooftop rainwater harvesting system, solar punels, furniture for kids, toys and learning material, etc., Mission Partvartan was started in Varanasi. The goal was not to restrict the intervention to a few angamendi centres for the sake of it, but to provide scalable, districtwide solutions to the problem that would be implemented across all 3000 anganwadi centres in Varanasi.

Mission Partvartan initiative has achieved a remarkable milestone in transforming Anganwadi centres across the district in the last 3 years. As part of the initiative, a total of 2,382 Anganwadi buildings have been rejuverated, achieving an impressive 96 per cent saturation. Additionally, 692 new Anganwadi centres have been constructed, bringing the total to 3,074. This transformation aims to provide a conducive learning environment for young children, promoting their overall development and well-being. Over 3.5 lakh children aged 6 months to 6 years have benefitted from this intervention in the district over the last 2.5 years.

Upgrading Infrastructure and Amenities

The upgraded Anganwadi centres boast



Variance's experiment proves transformation docum't require grand schemes—just design, consistency and political support

several key features, including saturation of all 18 basic Kayakalp parameters, such as baby-friendly toilets, handwashing units, Balla-based pointing, etc., along with upgraded works like digitisation with LED TVs to support learning and make education more engaging for kids, ensuring a comfortable and interactive environment. Purthermore, these centres are now solar-powered, ensuring a round-the-clock electricity supply. Other notable features include Poshan Vatika, kid-friendly toilets, and solar panels, all designed to promore health, hygiene, and sustainability. Outdoor play equipment has also been installed to encourage physical activity and development. The design of these angun-wadi centres has been kept conducive to learning and mental growth, so that each corner of the centres serves as a source of learning and education. Things like writable floors, low wall green-boards, lowhanging paintings and wall displays, etc., ensure that each activity includes learning, and the building architecture serves as a source of learning for the kids.

Beyond just the infrastructure, simple things like furniture, kitchen items, storage boxes, utensils, toys, first-aid kits, utility kits with a mirror, towel, nail cutter, etc., have also been provided at all centres, so that these centres function on a learning-by-doing model.

Urban Initiatives

In urban areas, Mission Partwartan has made significant strides in addressing the challenge of space and land avail-

sbility. Very rarely has any solution to the urban anganwadi centre problem been attempted, and in city-based districts and increasingly larger cities, this problem will become even more severe in the future. The same problem existed with 991 urban anganwadi centres in Varanasi, which had been functioning on rent for years, yet not a single one existed within the 4 walls of a room; they were only in dingy streets and corridors. As a solution, 790 new rented buildings have been provided to accommodate Anganwadi centres under new rent agreements, while 65 old, unused buildings have been repurposed as Anganwadi centres. Additionally, 25 Poeta Cabins and recycled bus compartments based on anganwadi centres have been set up in highly congested sreas, ensuring accessibility and convenience. These Porta Cabins have been particularly effective in addressing space constraints, enabling Anganwadi centres to operate in parks and playgrounds. Angamwadi centres in urban areas, which were almost non-existent. working from streets and house corridors with barely any kids attending because of an extremely poor environment, now exist in beautiful air-conditioned rooms with smart classes for learning. Where rarely any kids used to attend an angunwadi centre in the City, now over I lakh kids in the City are proudly attending these centres daily. Training and Capacity Building

Engineering departments, CSR partners, and NGOs devised these standard guidelines to be implemented as a model across different problem sets and areas, with standard costs. Then all the field staff were trained on the same solutions. Supervisors and Angarwadi workers also played a pivotal role in learning new and upgraded tools for learning, such as Tablets and Smart TVs, and in utilising different learning materials for kids.

Motivation, Monitoring Funds Convergence

A huge challenge was to secure land for new centres, identify new rented buildings in urban areas, and plan the priorities and locations so that the whole district benefited from the intervention in a phased manner. Weekly meetings were held with Supervisors, CDPO, and BDOs on the same day. Standard new rent agreements were drafted, and within a month of the intervention, results began to come in. To monitor different components, a control room was set up at the ICDS office, and Google Forms were used for daily reporting on updates to various indicators. For funding, CSR played a major role, with investments largely from Vedanta and Reliance Foundation, which helped make the efforts a reality, with Feeding India and Yuva Unstoppable also supporting the intervention, Besides CSR, MGNREGA funds, Gram Panchayat funds, and Critical gaps were also utilised to bridge small gaps in the campaign in works such as Poshan Vatika, electrification, boundary walls, etc. A significant contribution of this effort comes from the support of the Political leadership and assistance in the effort.

Impact and Outcomes The impact of Mission Parivartan has been profound. Attendance at Anganwadi centres has increased significantly, from 35 per cent to 80 per cent, indicating improved engagement and enthusiasm among children. Moreover, severe malnourishment has decreased dramatically, from 7.7 per cent to 0.12 per cent, demonstrating the program's effectiveness. Learning outcomes have improved drastically, as reflected in the learning outcomes of the kids of first class in schools, and the NIPUN assessment results have improved from less than 40 per cent to over 90 per cent for students of Class 1 in government primary schools. Parents are now more likely to send their children to Anganwadi centres rather than private play schools, highlighting the initiative's success.

Views expressed are personal

A personal journey of nurturing talent

DEBAPRIYA MUKHERJEE

ducation is not the learning of facts, but the training of the mind to think, said Albert Einstein.

For the past six years, my work with students has been devoted to introducing and strengthening critical thinking in their learning journey. I often observe that many students struggle to achieve success in life not because they lack talent or determination, but because they are shaped by an education system that prioritizes marks over real learning. memory over creativity, and conformity overindividuality. As a result, students grow up uncertain about their passions, unprepared for real-world challenges, and lacking the confidence to explore new opportunities - creating a gap between academic performance and true success.

Too often, the emphasis on rote learning and examination outcomes prevents children from exploring ideas or understanding concepts at a deeper level. During classroom interactions, it becomes evident that students rely heavily on teachers' prompts, struggle to justify their reasoning, and hesitate to express their own thoughts. Many quietly wait for the "correct answer" rather than sharing their perspectives.

When I ask, "Can you explain your reasoning behind a particular science or mathematics experiment?" several students become unsure, as the question does not come directly from the textbook. Such interactions reveal that they have not been encouraged to question, analyse, or explore ideas independently they expect information to be given, not discovered. These classroom conversations highlight the extent to which critical thinking is missing and underline the urgent need to guide students from passive learning toward active reasoning.

In today's world, critical thinking is one of the most essential skills for success, yet many students continue tolearn in ways that limit their ability to question, analyse, and think independently. Recognizing this challenge, I have established specialized Mathematics and Science Laboratories to create an experiential learning environment where students can observe, experiment, reflect, and develop the skills needed to become curious, creative, and critical thinkers.

The lab has become a place where students step away from rote memorization and step into the world of hands-on discovery. Here, they build models, test ideas, measure outcomes, and learn through active investigation. For many, this has opened a door to a kind of learning they never thought possible. Concepts that once felt difficult in the classroom suddenly make sense when experienced through experiments and practical activities. What is most remarkable is the confidence our students have gained. Children who once hesitated to speak now eagerly explain their observations. Students who struggled with abstract concepts now demonstrate them with clarity using tools, models. and experiments they designed themselves. Their ability to think

critically-to question, analyze, and reason-has grown stronger with every activity.

One of the most heartwarming transformations has been the spirit of collaboration the lab has fostered. Whether solving a mathematical puzzle, testing the Bernoulli principle, or building a working model, students support one another, share ideas, and celebrate each other's achievements. The lab has become a space where teamwork and creativity shine as brightly as academic success.

Parents often share stories of how their children talk excitedly at home about the experiments they performed - how they made a balloon-powered car, used geometric tools to create designs, or conducted simple chemistry reactions safely under guidance. These conversations show us that the lab's impact travels far beyond the school walls.

This initiative reflects my observations, the current gaps in learning, and the pressing need to transform our teaching approach to nurture strong intellectual habits.

Despite my sincere efforts to develop hands-on learning experiences, another significant barrier I face is excessive mobile usage, which increasingly jeopardizes students' critical thinking abilities. Constant exposure to quick-scroll content, instant answers, and entertainment-driven apps conditions young minds to seek immediate gratification rather than engage in patient analysis or problem-solving.

Instead of exploring ideas deeply or forming their own conclusions,



many students simply "Google the answer," bypassing the cognitive struggle that builds reasoning ability. Mobile addiction reduces attention span, discourages reflective thinking, and limits opportunities for meaningful conversations - elements essential for nurturing curiosity and logical judgment. As students become more dependent on digital shortcuts, their ability to question, evaluate information, and think independently weakens, posing a serious threat to their intellectual growth and long-term learning potential.

Excessive dependence on private tuition further intensifies these challenges. Tuition often reduces students' capacity to learn independently, as many rely on tutors for ready-made answers instead of developing their own problem-solving skills. It also increases academic pressure and stress, leaving little time for rest, hobbies, or healthy social interactions.

Moreover, the financial burden of tuition creates inequality, leaving students who cannot afford it feeling disadvantaged. Over time, students may lose confidence in classroom learning and become less motivated to think creatively, hindering both academic and personal development.

By integrating inquiry-based methods, hands-on learning environments such as the Mathematics and Science Laboratories, and reflective classroom discussions, we can empower students to become confident thinkers and lifelong learners. Let us commit to creating a classroom culture where curiosity is encouraged, mistakes are viewed as opportunities, and every child feels inspired to explore their own ideas. The journey toward stronger critical thinking begins with us, and together, we can ensure that every student discovers the power of their own mind.

(The writer is a former Senior Scientist, Central Pollution Centrol Board.) DECCAN HERALD (P-8), 28 OCTOBER 2025



Student politics needs a class on caution

he Karnataka government's move to revisit the ban on student union elections has brought back into focus an issue the state had shelved for more than three decades. Deputy Chief Minister D K Shivakumar's declaration that campus elections nurture leadership and must be reconsidered has reopened a debate that has remained dormant since the state imposed a blanket ban in 1989. But as the government moves in this direction, it must confront the very real and troubling history that led to the prohibition in the first place. Student unions in the 1980s had ceased to be mere platforms for representation; they had become battlegrounds where political parties, caste groups, and even the underworld jostled for influence. Violence was endemic. Clashes between rival groups — often caste-aligned—disrupted classes, damaged property, and made campuses unsafe for ordinary students. The atmosphere in several leading institutions in Bengaluru and elsewhere became so vitiated that education took a backseat to mobilisation, agitation, and turf wars.

More worryingly, the student leadership of the era was deeply entangled with criminal networks. It was an open se-

cret that rowdy elements funded campaigns, offered 'protection', and used student leaders as foot soldiers. Elections became proxy contests between gangs backed by political patrons. The triangular nexus of politician-gangster-student leader hollowed out the very idea of a representative union. It is this criminalisation—not just political activism—that ultimately compelled the government of the day to outlaw campus elections. That history should serve as a red flag as the state of student politics. However, while a

Karnataka's move to restore campus elections should not revive violence from the past

elections. That history should serve as a red flag as the state contemplates a return to student politics. However, while a ban may have shielded students from the worst excesses of the past, it also insulated them from democracy itself. Universities are meant to be training grounds for the future. Elections teach leadership, negotiation, public reasoning, and accountability—skills no classroom lecture can impart. The absence of a union has left students without a legitimate voice on issues affecting their academic lives.

The challenge, therefore, is not a simple choice between an unregulated past and an over-controlled present, but finding a workable middle path that derives the best of both. The task before the committee is to design a system that harnesses the advantages of student representation while preventing a relapse into violence and criminal patronage. This will require strict codes of conduct, limits on external political involvement, transparent funding rules, and swift disciplinary mechanisms. If the government is determined to revive campus democracy, it must tread cautiously. Karnataka should remember the havoc unions once unleashed, but it should also recognise that democracy with safeguards is better than no democracy at all.

CAN HERALD (P-9), 28 OCTOBER 2025

Buildingreading culturesbeyond technology

SHARDON SUNNY

onversations with teachers, whether in bustling city classrooms or quiet rural schools, often return to the same questions: How do children learn to read? What keeps them reading? And what doesa "reading culture" actually look like in a society marked by deep inequalities and rapid technological change?

These are not questions of technique but about the environments we create, the lan-guages we value, and the time we allow for reflection in an increasingly hurried world.

Reading and writing began as an attempt to understand and organise the world. In ancient Mesopotamia, a few marks pressed into clay set in motion new ways of thinking. Those who could read these early scripts held a special place in society; their skills were considered powerful enough to border on the sacred. Seen through this lens,

reading culture is not merely a set of school practices or library periods. It is part of a long hu-man habit of making sense of of finding meaning in symbols, sounds, and stories

Early texts were meant to be spoken aloud. For centuries, most people accessed written knowledge not by reading silently but by listening collec-tively. This tradition survives in our classrooms and homes. Reading aloud helps children become fluent readers; adults still gather around stories during festivals and community events. The human voice re mains central to how reading is shared.

Reading also slows us down. It teaches attention, offers companionship, and makes room for reflection — gifts that feel

increasingly rare.

Modern research confirms what many teachers intuitively know. Learning to read is not simply about "cracking the code."Children's backgrounds, languages, and exposure to print shape how confidently they move from letters to

meaning.
English poses unique chal-lenges. While children learn that letters map onto sounds, they soon encounter exceptions - said, one, school, was, give. Without support, the gap widens quickly between those with access to books and those

A large study across lowand middle-income countries shows a clear pattern: children often learn to decode words,

but comprehension remains a struggle. Some children grow up surrounded by books and conversations, others grow up in homes where print is scarce or absent.

In India, these divides can be stark. A child in a remote tribal hamlet may acquire rich cultural knowledge through oral storytelling but have limited access to print. Meanwhile, ur ban learners may be surrounded by texts but lack the time or support to read meaningfully. As literacy improves overall those with more resources tend to move ahead faster. The gap

widens quietly. AI's presence in classrooms is expanding quickly. In Ghana, open-source tools now assess oral reading with striking accuracy. In a western Indian state, AI-based assessments have been rolled out in thousands of schools to identify early reading gaps. Technology can generate storybooks in home languages, support teachers, and make assessments more accessible.

But AI can also magnify existing divides. Communities with limited connectivity or devices lag further behind. The question is no longer whether AI can help with reading - it can. The question is who benefits, and who is left out.

Across schools, one pattern stands out: teachers who read for themselves create classroomswhere reading feels alive. They share favourite lines, point children to new books, and treat reading as a joyful habit rather than a task. Reading cultures take root in these small, everyday gestures.

In tribal and rural communities, oral storytelling traditions — songs and tales — remain vital. They deserve recognition as rich forms of literacy. As modern pressures increase, preserving these traditions becomes part of sustaining a reading culture.

Building a reading culture does not require grand declarations. It requires steady, human-centred commitments: access to books in all languages, supportive classrooms, time to read, and technology used thoughtfully rather than

uncritically.

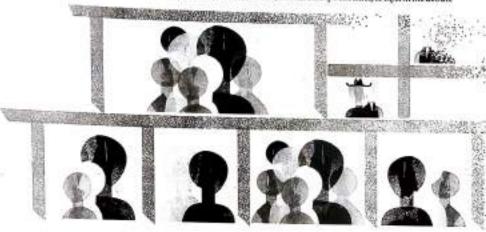
Most of all, reading grows
when people feel invited into it
when people feel invited into it when stories feel close, possible, and worth staying with. In an age of AI and metrics, remembering the humanity of reading is the most important step of all.

(The writer is an assistant professor at Azim Premji University) SH 219

DIS/AGREE

THE BEST OF BOTH SIDES

A weekly column, which offers not this-versus-that, but the best of book sides, to inform the debate



Is Macaulay to blame for the 'colonial mindset' or is he a convenient strawman in politics?

India must exorcise Macaulay's ghost



VINAY SAHASRABUDDHE

BOUT A decade after Indopendence, there was a popu-lar sefrain that while the "White overes" had been sent back, the "coloured anwill around. Many would also add that while the oxgres have gone, ox-grester continues. "We, the people," and the systems in India continued to be under colonial influence. Recognising this fact and analysing the impact of the BJP's victory under Nacendra Modi's leadership in the 2014 Lok Sabita elec-tions, The Guardian commented, "Foday, 18May 2004, may well go down in history as the day when Britain fleasily left india." Little wonder, then, that PM Modil

ase a clarion call to liberate India from the siniater influence of T B Mucaulay, a symbol of colonial forces that almost compelled Indians to hate everything that was essentially Indian. On the one hand, promotest of Macoulty's thinking created an acute sense of Inferiority. On the other hand, they tried to divide Indians, and while leaving, they left behind a trutch more fragmented society. Sadly, thanks to the foortia of rulers

after independence, the content of edu-cation mooted by Macaulay was allowed to continue for decades, only to be draw tically altered with the new National Education Policy. It's a fact that our entire discourse about knowledge traditions. including the history, content and con duct of education, arracked of a deep in-fluence of Macaulay's Minute, So much so that Mahatma Gandhi, in his 1931, speech at Chatham House, blustly told the British how they had destroyed the indianness of Indians. He said, "We have the education of this Inture state. I say without fear of my figures being chal-lenged successfully, that coday India is more Elitorate than it was 50 or 100 years ago, and so is Burmo, because the British administrators, when they came to India. instead of taking hold of things as they were, began to root them out. They scratched the self and began to look at the root, and left the root like that, and the beautiful tree perished." What the PM is calling for is re-mourishing the roots of this beautiful tree

PM Modi's critique of Lord Macaulay is not confined only to education. Histor-geted at everything that reflects the colonisimindset. From the content of educa-tion to our model of public tion to our model of public administration, from parliamentary

procedures to courtroom mannerisms. there are several things that need to be liberword from colonial influence. PM Modi's appeal to end the colonial impact in the ment 10 years could also be usen as a sequel to his "Punch-Prom" appeal and his emphasis on promoting the mother tongue in education. It is important to note that FM Modi also said the government was

not opposed to English at a language.
Pro-status quo elements often deny the continuing impact of colonisium. They would do well to take a closer look at our governance structure, our parliamentary practices and facets of the public sphere at large. Many may not know what impressed in 1999. Till then, the budget used to be presented in Parliament at 5 pen to suit the London time. It was thanks to then PM A B Vajpayee that the practice was abandoned.

From referring to the district magis

trate as district offlector to addressing Adjus presiding overcount of law as "My Lord" to the robes a lawyer is expected to wear in the courtroom, there are several imprints of colonial rule we need to discard. This is because ideas of racial supremary, leading to an all-pervading Burecentricism, were the foundational ideas of resst colonial powers.

Thanks to British rule, the sinjutering pact of this Eurocentric thinking could make quick insoads in our consciousness. As a result, indigenous became synonymous with inferior. More than reading and writing, we relished speaking English as it quickly gave us a pseudo-satis-faction of being from the elite classes. This made us hollow from within, and we started divespecting not just our mother longues but our mother culture as well. From climatically unsuitable these-piece suits to hygienically fil-advised Westernstyle multi-course lunches and dinners we pushed everything traditional to the periphery. Unthinkingly and needlessly, we started officially calling allopathy "modern medicine," making Ayurvein, Siddha, sic, "un-modern", for no faidt of these indigenous medicinal systems frontcully, in orwoody famine-affected parts of rural India, children reliched

singing poems like "rain, min go away". PM Modificall for liberating our think-ing from the influence of Macaulay is not against all that is foreign. Gandhi had quite elequently written on this issue in 1924 in Yawng India: "My Swa-ray (neilrule) is to keep intact the genius of our civillation. I want to write many new drings, but they must all be written on the indian state. I would gladly borrow from the West when I can return the amount with decent interest."

> The priors is a national expective contribute mumber of the EUF

Long live Mahatma Macaulay



CHANDRA BHAN PRASAD AND ASHISH GAUTAM

ITH THE onslaught on the "Macaulay mind-set", the vilification of Lord Macaulay has renumed. He is, by impli estion, called a cultural costaver. His acrairers are desided as "Macoulty Pursa and for baving "internalized inferiority". The "minder" theorem suggests that Eng-ish-edicated indians are traffics to an im-agined civilisational essence, Yet, Jew critics have read the primary test that grounds this outrage blacastay's blinste on Indian Education (866). Selective qua-tations ower two centuries have crossed that his arguments are understood only through subterlage. In 1803, the British purliament ordered

the East India Company to spend at least its Haith annually Torthe revival and poursotion of literature, and the encouragement. of the learned natives of indis, and for the introduction and promotion of a knowledge of the science arrong the inhabitants of the British territories". This mandate spin Brit. inhofficials. Orientalists organd in brourof Sension and Arabic education. Audicinis. led by Macouley, argued that funds need support administration aligned with economic modernity, empirical science and universal knowledge. This debate his been raduced to a language from Macanlay demonstrated, using accounts from Calcutta, that Sanskrit and Arabit colleges required stipends to attract students, while English schools down fee-paying students volumtarily it is any amount was based on economic viability and irrelicated returns.

The distortion was led by NCERT books, which claimed Macanby sought to create "a-class of persons, Indian in blood and colour but English in tastes, in opinious, in morals and in intellect Ripon Chandro used this quote as proof of cultural subservience. Sumit Surkar to peated it. Students were never shown the full paragraph that reads: "We rains at present do our best to form a closs who may be interpreters between us and the millions whom we govern, a class of persors, Indian in blood and exfour, but they fir his tastes, in optimizers, in morals, and in intellect. To that class we may know it to refine the vorsacular dialocts of the country, to encich those disjects with termediscionae berrowed from the Westem nomenciature, and to render them by degrees fit welticles for conveying knowledge to the great mass of the population.

This sleight of hand in reminiscent of the Ashwarthama episode. Lord Krishna Instructs Yudhinhthim to declare "Ash-watthama is dead". Yudhinhthim does so. mutering "the elephant" under his beauth. The visible and concealed much coexist Mythology often treats such misdirection as a divine nunction when the cause is deemed righteous

The second quote mutinely weaponized against Macaulay is: "... a single shell of a good European library was werth the whole nutive literature of India and Arabia". Yet, the surse Minusecontains a line, "Acountry once superior in knowledge to the nution officerope, referringto Egypt, which had de-clined. He notwing the West was 'In a clase as best-erous as that in which our associate were before the Crusades". He observes that almost everything that was worth reading was contained in the writings of the ancient Greeks and Romans", and he lists Thucydides, Plato, Cicero, and Tacitus ar intellecmal superiors. He furnously aggres: "The languages of Wastern Russipe civilised Ras-ea. I connot doubt that they will do for Hisdoo what they have done for the Turtue." That was not a claim of sacial biggraphs. It was a statement about how languages that carry modern science and philosophical knowledge transform società

Macaulay reinforced this point in his July 10, 1833, House of Continoral speech. He described coats as a system that "pronounced some men to be by high the lords of the soil and others to be by birth howen of wood and drawers of vozer". He mocked the idea that a sustan could advance white "the highest honours of the state were reserved for a favoured caste". The outrage against Macaulay is not solely rooted in colendal injury but also in his attack on caste codes. That's the reason I love scholar D Shyum Babu's colmage of "Mohatima Ma-caulty", I recognises that English disnamed caste based social bierarchies. It reassigns moral authority to the figure who initiated the first structural breach in castels history.

English didn't mesely replace Sarakets. It diluted caste. Sarakets preserved himarchy Englishentered trada without rirual barriers. It opened access to science, law, administration, and global imaginations. What costs society refused Dulits, English offered, Sanskrit pretends to defend authenticity while smuggling caste order back integablic discouse.

The Asirward corn analogy completes the picture. Deception is legitimised for Disarric ungesey. Only a Mahatmar like Maeratay can kriigine (Nanjab bettarribus the England of his grandfathers Astrontibana is dead. Longlive Mahatma Macaulay.

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Inclusive education and learning environment

DR SAILEN DAS

he goal of inclusive education is to guarantee that all students, regardless of their skills, experiences, or situations, have equitable access to high-quality instruction in a typical classroom. It is founded on the idea that all children should have the chance to learn, develop, and engage with one another, and that diversity enhances the strength of the classroom. The goal of inclusive education is to integrate children with special needs or disabilities into regular classes with the necessary support mechanisms.

Fundamentally, inclusive education advances the notion that diversity is both normal and beneficial. Physical capabilities, learning preferences, social backgrounds, language proficiency, and cognitive difficulties can differ among students. In order to create a more engaging learning environment, inclusive education uses these differences as assets rather than as barriers. In addition to helping children with special needs, this approach promotes respect, empathy, and teamwork among all students.

Creating a barrier-free learning environment is one of the main objectives of inclusive education. This includes learning resources that are tailored to each student's needs, accessible classrooms, and adaptable teaching strategies. For instance, children with learning challenges can benefit from simplified texts or more time during tests, while those with hearing impairInclusive education supports varied learner needs, builds accessible classrooms, and equips teachers to ensure meaningful participation for every child.

ments might need assistance with sign language or audiovisual aids. In order to meet a variety of requirements, teachers must implement flexible strategies, including differentiated instruction, collaborative learning, and ongoing assessments.

A key element of successful inclusion is teacher preparation. Teachers must be well-versed in inclusive pedagogies, disability concerns, and classroom management strategies that encourage involvement from all students. Teachers become more competent and confident in addressing a variety of learning issues with regular professional development. The inclusive framework is further strengthened by the assistance of counsellors, professional assistants, and special educators.

Involving families and the community is another crucial component of inclusive education. When it comes to helping their children learn and working with schools to develop individualised education plans (IEPs), parents are essential. Participation in the community promotes equality and acceptance by lowering stigma, raising awareness, and creating a welcoming atmosphere.

The success of inclusive education is also greatly influenced by legislative and policy frameworks. Laws like the Right to Education (RTE) highlight the significance of inclusive education in many nations, including India. These regulations require qualified personnel, accessible facilities, and equitable educational opportunities for chil-

dren with impairments.

There are many advantages to inclusive education; it is crucial because it guarantees that every child, regardless of aptitude, background, or learning challenges, has equal access to a high-quality education in a nurturing setting. It acknowledges that every student has distinct abilities and encourages schools to modify their curricula, infrastructure, and teaching strategies to accommodate a range of requirements. Students learn empathy, teamwork, and tolerance for diversity in the same classroom, all of which contribute to the development of a more inclusive and accepting society. By lowering social stigma and giving children with disabilities the chance to fully engage in school activities, inclusive education also improves their self-esteem and academic achievement. By encouraging collaboration and critical thinking, it enhances the educational experience for other students. It improves social skills by promoting interactions between students from different backgrounds; it boosts academic performance through individualised support for students with special needs; it fosters patience, cooperation, and a deeper understanding of human differences for students without disabilities; and schools that practice inclusion frequently create a more positive and compassionate culture.

It's crucial to note that inclusive communities are also necessary for inclusive education. Diversity, equality, and a setting where everyone feels appreciated, respected, and supported are the cornerstones of an inclusive community or society. People of different backgrounds, identities, and talents are respected and treated equally in an inclusive society. However, the foundation of an inclusive community is "equal opportunity for all."

Teachers may create an inclusive education system by implementing adaptable teaching methods, encouraging teamwork, and fostering empathy. Teachers may find the following key points useful for inclusive education: (i) recognising the distinct needs and strengths of every student; (ii) using adaptable teaching strategies, (iii) creating a supportive atmosphere, (iv) working together with families and special educators, and (v) offering equitable opportunities.

However, barriers remain. These barriers may be physical, psychological, sociocultural, and instructional. Educators, legislators, families, and society as a whole must work together to overcome these obstacles. Inclusive education, rather than simply being a method of teaching, constitutes a commitment to equality and dignity. By embracing diversity and ensuring that all students study together, we can build a society that is more eompassionate. In addition to helping children reach their full potential and grow into responsible, caring adults, inclusive education, curriculum customisation, and extracurricular activities empower every child.

When Education Kills Curiosity



ANAMIKA DASGUPTA

THE PIONEER

Recently, another 16-year-old in Kota took his own life - the fourteenth this year. His classmate, speaking on camera, said he didn't know who he would be if he didn't crack the exams. Tragic as it is, we don't need statistics to see that the system meant to prepare our children for life is draining life out of them.

A nine-year-old once asked me, "Why should I learn multiplication when my watch can do it faster?" That guestion is the diagnosis: children sense what many adults refuse to admit - the world they are growing into has already outpaced the one we are preparing them for. The coming decades will be defined by volatility and velocity. At, automation, and algorithmic decision-making are redefining what it means to be human. As Yuval Noah Harari warns, "In a world deluged by Irrelevant information, clarity is power." The future will reward those who can connect ideas, not those who memorise facts.

Al won't replace humans - the real danger is humans behaving like machines. To survive and thrive, children must learn to learn, unlearn, and reimagine. As Sir Ken Robinson noted, human communities rely on diverse talents, not a singular conception of ability. Education must nurture curlosity, empathy, collaboration, and problem-solving the very skills that define humanity. Schools should teach children how to think, not what to think; courage, imagination, and conscience, not mere compliance.Instead, India's mainstream schools affe Pioneer original thinkers. Sociologists highlight a sharp distinction: socialisation - teaching empathy and cooperation -- is treated as the family's job; social control - discipline and regulation - is the school's.

Our system wasn't broken by accident; it was designed to feed bureaucracy and conformity. Our education rewards compliance, not questioning; fitting in, not stand-Ing out.Progressive education, often dismissed as indulgent or urban elitist, must become mainstream.

The world we are preparing our children for values originality, adaptability, and human connection - not obedi-

ence. Rooted in autonomy, inquiry, and real-world relavance, progressive methods like project-based learning travel-based learning, and community-led initiatives help children engage, experiment, and solve problems. In fart India's ancient gurukul system thrived on inquiry-drien. mentor-led experiential learning, a tradition replaced by colonial-era rote schooling. Yet, meaningful reform chalenges powerful interests. Schools today often sevepolitical, corporate, or bureaucratic convenience. A system producing compliant consumers is easy to maintain; true change is disruptive and uncomfortable - and essental

Without it, we risk raising generation fluent in textbooks but illiterate in the facing climate chaos, Al disruption, and moral uncertainty with no creativity or courage. The consequences are visible today: unemployable graduates, frustras ed youth, and fertile grounds for social

unrest. Education is civilisation's survival kit, not an Industry. Progressive schooling must become the only form of schooling for the future. Otherwise, education itselfull be the world's most sophisticated failed experiment - and those suicides in Kota will remain haunting reminders for the system collapsed long before the students did.

The writer is Director, The Wonder School, Pere



TELEGRAPH (P-14), 29 OCTOBER 2025

Choose quality over quantity

n academia, citations have historically been seen as a measure of credibility. The frequency of a researcher's citations correlates with the perceived value of his or her work. This conviction has moulded careers. affected promotions, dictated financing prospects, and enhanced institutional standings. Recent discussions on the Stanford-Elsevier 'Top 2% Scientists' list demonstrate that equating high citation numbers with research quality is not a simple matter. Regarded as a global ranking of the most important scientists, the Stanford-Elsevier list purports to identify the top 2% of scientists in the world based on citation data from Scopus. However, the methodological faults compromise the list's authenticity - it is a superficial commemoration of citations as a substitute for true brilliance.

Citations are intended to recognise the utilisation and the significance of previous work. They ought to emphasise creativity, intellectual contribution, or methodological rigour. However, when converted into inflexible measures, they can be easily manipulated. The Stanford-Elsevier database is fraught with irregularities that underscore this issue. For instance, Nobel laureates such as Katalin Karikó and Drew Weissman scientists whose contributions have transformed medicine and human evolutionary research — are absent. Simultaneously, journalists from The British Medical Journal seem to be ranked above those laureates and even deceased researchers are noted for their published legacies spanning generations. These anomalous inclusions reveal the deficiencies of the database when citations are the sole criterion.

The prevalence of hyper-prolific authors is equally concerning. Some authors generate over 100 publications a year, with self-citation rates above 97%. Some oversee extensive networks comprising hundreds of colleagues, co-authoring publications

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BIJU DHARMAPALAN

at a frequency that no one could rationally defend. Such tactics reveal a system manipulated to enhance visibility. Citation mills — entities that provide references to improve citation counts — have developed into a flourishing industry, further obfuscating the significance of metrics.

The misuse of citation-based rankings has emerged as a significant issue in India. Universities prominently promote their academics featured amidst the top 2%, presenting it as a testament to institutional superiority. This fosters a false perception of high-quality research environments for students and parents. Many prominent Indian scholars lack access to sophisticated laboratories or research facilities. They generate review articles en masse, frequently co-authored with numerous partners globally, with each manuscript extensively supplemented by self-citations.

The competition for citations is driven by incentives. Rankings such as the National Institutional Ranking Framework, the Quacquarelli Symonds and Times Higher Education significantly emphasise publication and citation measures. Promotions, financing possibilities, and institutional reputation are correlated with citation metrics. Private universities frequently subsidise open-access fees for faculty, as open-access journals generally produce elevated citation rates. Senior professors may need co-authorship from junior colleagues or students as a condition for mentorship, whereas visiting professorships are occasionally extended to international researchers contingent upon their inclusion of the institution's name in all publications. The outcomes are evident: in 2023, India secured the third position worldwide in retractions, with 2,853 papers retracted within a single year. Countries that yield the highest number of the top 2% scientists also have the greatest retraction rates.

A business model is concealed beneath the exaltation of citation counts. Open-access publishing has emerged as a profitable sector, frequently bolstered by ranking systems that prior-



itise quantity over quality. Publishers capitalise on the consistent influx of articles, while universities allocate funds to cover publication fees. The Stanford-Elsevier database operates within this framework, reinforcing this cycle. The contradictions of these systems are not beyond the reach of even the architects. Professor John Ioannidis, the creator of the Stanford-Elsevier list, is consistently ranked among the world's top 50 scientists, according to his own methodology. He published 71 papers in 2023, 73 in 2024, and 51 in 2025. His prolific output is indicative of the hyper-productivity that his system encourages, which prompts enquiries regarding potential conflicts of interest.

The misuse of citation metrics is a textbook example of Goodhart's Law. which states that "when a measure becomes a target, it ceases to be a good measure". Initially, the purpose of citations was to serve as a crude indicator of the extent to which research influenced subsequent work. Today. citations are frequently indicative of visibility, networks, and publishing strategy, rather than genuine advancements. Review articles, which consolidate existing knowledge rather than presenting new findings, receive an excessive number of citations. Citation counts are influenced by predatory journals that have inadequate peer review, just as much as by high-quality publications. In this environment, genuine innovation is at risk of being overshadowed.

Citations are not without significance, though. They are beneficial for tracing influence and identifying concentrations of active scholarship. But they cannot function as a substi-

tute for quality. Quality in research is not limited to quantitative metrics; it necessitates originality, rigour, integrity, and societal relevance. It is determined by the impact of one's work on the field, the resolution of issues, or the guidance of the next generation of academictans. When citations are considered to be synonymous with quality, it motivates researchers to prioritise short-term visibility over long-term contributions, to produce papers rather than pursue hazardous but potentially transformative ideas, and to concentrate on popular topics rather than neglected but socially vital ones. It penalises individuals who invest time in the creation of significant work that may not immediately generate citations but could have an enduring impact.

The academic community has to re-evaluate the manner in which it measures excellence. The most effective method of determining the novelty, rigour, and overall impact of research is still through thoughtful evaluations by specialists and a qualitative peer review. Research should also be judged based on how effectively it tackles important issues, such as health, environmental concerns, technology, and equity. It is equally important to acknowledge the contributions that scientists make to the development of research cultures that are conducted in an ethical manner, as well as the contributions that they make to the education of future academics. Although quantitative indicators can be used to augment evaluation, they should always be contextualised and can never be considered to be absolute measures of quality.

These challenges are starting to become more apparent to policymakers. Recent studies highlight the increasing worry around metric tampering and its impact on the public's faith in science. To maintain its reputation as a credible organisation, academia must relinquish its obsession with citations and return to the fundamentals of research, which include curiosity, rigour, and responsibility. Lists and rankings will continue to be monuments to the distortions of a system that confuses visibility with merit until then. They will not be monuments to excellence.

What They Don't Teach You In B-Schools

Management curriculum focuses on efficiency, not imagination. But every current business needs managers who are at home with both process discipline & creative disorder

Partha Sinha



Every business breathes through two lungs - one draws in growth, the other exhales efficiency. The first requires imagination: understanding society, markets, culture, and human desire well enough to create something new.

The second demands discipline: running that creation smoothly, with fewer leaks and better returns. Every entrepreneur, at some point, must juggle both – the artist and the accountant, the dreamer and the doe:

But when you look closely at how our management schools the temples of modern business teach, you start to see an imbalance. They'vebuilt cathedrals to efficiency and erected only small shrines to imagination.

Take Harvard Business School. Its required curriculum is heavy on finance, operations, analytics, and control – the metrics that make a manager numerate and the business measurable. It trains one to read a balance sheet like poetry, to manage risk with the precision of a surgeon. Yet even here, the creative side peeks in through electives entrepreneurship, business and govt, international economy. Innovation appears as a visiting faculty, not as the dean.

Stanford Graduate School of Business begins similarly: data, decisions, optimisation, micro and macroeconomics, accounting, and information management. It is the managerial equivalent of boot camp.

Students learn to optimise, simulate, and strategise the language of order and control.

But as the second year unfolds, something changes. The syllabus softens. Suddenly you find courses in Design for Extreme Affordability, Social Innovation, Political Economics, and Understanding Alfor Business Problems. You can pair your MBA with law public policy, or engineering. Stanford doesn't just hand out spreadsheets; it hands out the permission to imagine.

IIM Ahmedahad - the Indian temple of rational management - wears its quantitative heritage proudly Cost accounting operations, economics, quantitative methods the pillars are sturdy. Yet as the programme matures, students can choose electives in entrepreneurship, digital technologies, and innovation.

The catch, of course, is that the creative side comes later - as a choice, not a foundation.

ISB too begins with analytics, global awareness, and operational excellence before inviting students to play in the sandbox of product design, digital transformation, or public policy. Its experiential learning programmes try to bring messiness into a classroom built for order.

So the evidence is mixed. The world's finest institutions are not blind to the need for innovation, but they teach it as an elective indulgence, an after dessert thought. The core – the part stamped into every graduate – is still

the science of efficiency, not the art of growth. Efficiency is measurable; imagination isn't. The exam can test a supply-chain model, not a spark.

And perhaps that's why, decades into the MBA era, our boardrooms are filled with efficiency experts but few visionaries. The modern manager knows how to run things, but often not how to begin them. The spreadsheets are flawless; the soul, sometimes missins.

This imbalance might have been acceptable in the industrial age, when predictability was profit. But in today's world – where markets shift faster than quarterly reports, where Al redraws industries before committees can meet – optimisation alone is a losing game. The next decade belongs to those who can read not just numbers, but currents: social, cultural, technological.

A company that optimises without imagining is a factory waiting to be disrupted. A school that producing operators without dreamers is, ironically, producing obsolescence with great efficiency.

obsolescence with great entransacion the old discipline,
The way forward is not to abandon the old discipline,
but to infuse them with a new imagination. The business
leader of the future must know not only how to cu
leader of the future must know not only how to cu
costs, but how to create meaning. To manage in a world
of algorithms, you must first understand the poetry
of data; to innovate in India or Indonesia, you must
read the texture of local lives. The next generation
of business education must teach anthropology

alongside analytics, storytelling alongside statistics. It must make ambiguity compulsory.

Imagine a first year MBA course called The Semiotics of a Market, where students decode consumer culture before they learn to price at Or a core paper titled Designing for Chaos, where uncertainty is not a case problem but a lived experience. Imagine if students were graded not only on the precision of their models, but on the resonance of their ideashow much traction, not just how much efficiency, they can create.

A few glimmers already exist. Stanford's cross-disciplinary vectures, Harvard's Al and ethics electives, ISB's live business projects - all mage towards this direction. But these are still the exceptions that prove the rule. The day creativity becomes a coverage and not an elective, management education will have caught up with the century it claims to lead.

Because the truth is; every business is a paradox. It needs the discipline of the banker and the disorder of the artist. The same system that measures cash flows must also measure cultural flow. The leader who understands both will define the next decade.

Perhaps the real MBA of the future will be a Master of Balancing Ambiguity. If business schools want to stay relevant, they must teach students to balance the equation – not between profit and loss, but between precision and possibility. The best managers will be part economist, part poet, fluent in Excel, but also in empathy.

Because the future won't be managed - it will have to be imagined.

The writer is a senior advisory professional



The hollowing out of the vocation of teaching





NAVNEET SHARMA SUSHANT KISHORE
CENTRAL UNIVERSITY
OF HP OF TECHNOLOGY

HE career of teachers is facing a crisis due to the slow pace of recruitment, peanut-paid contractual appointments, guest and ad hoc faculty and the fatigue of the existing faculty buried under the weight of vacancies in their departments.

A university teaching job has been reduced to a labyrinth of administrative burden, rankingdriven metrics and career stagnation, which is destroying the scholarly drive it is supposed to foster.

The 2025-26 Demands for Grants of the Department of Higher Education report reveals shocking statistics. Over 56% of professor positions in top universities are vacant: 26% of sanctioned faculty posts in 46 Central universities are empty; 28.56% of the 18,940 faculty positions approved by the government across IITs, NITs, IIMs, IISERs and Central universities sit empty. This crisis exposes systemic dysfunctions and apathy towards higher education. Against the NEP-2020 target of increasing the allocation for higher education to 6% of GDP, only 4.6% has been allocated this FY.

Universities respond to such budget pressures by replacing permanent positions with temporary faculty. Not only does this alter academic careers, it also leads to exclusion of marginalised groups due to the suspension of affirmative action embedded in the universities' permanent recruitment systems.

Even elite US universities are facing similar challenges. Harvard's recent hiring freeze left departments scrambling to fill essential positions in the middle of the semester, a pattern replicated globally. As departments lose faculty to retirement and attrition, the few who remain must shoulder enormous teaching loads and administrative responsibilities.

Academic roles in India are becoming a battleground of forms, protocols and performance data. A teacher's struggle is also against the globalising logic of various university rankings, which dictate what is visible, valuable and promotable within academia. Faculty autonomy, whether in curricular design or research agenda, is hemmed in by ranking checklists and the resultant tick-box culture.

Early-career faculty burn out under the weight of digital audit trails and the relentless demand to

Over half of all professor positions in top universities remain vacant — a symbol of systemic neglect.

tick the ranking boxes. Research imagination is suffocated by the pursuit of metrics. Historical sensibility is smothered by the forced adoption of digital tools and the erasure of dialogic and reflective pedagogy. Even state universities and colleges whose mandate is to provide quality and flexible education to the regional students have to abide by the homogenisation of global ranking frameworks. This growth formula re-emerges as the algorithm that governs the teachers' tenure and promotion. As a result, the pursuit of meaningful knowledge, transmission of critical ideas and labour of mentorship is subordinated to the choreography of visibility, performance, bureaucracy and compliance.

University campuses that were once terrains of unhurried intergenerational cultivation of knowledge and intimacy can feel hollowed out by the manic reporting of impact factors, employability indices and strategic partnerships and by another step away from the vocation of teaching.

The cumulative effect of staffing shortfalls, administrative excess and rankings manifests in a wave of exhaustion, existential futility, anxiety and burnout in faculty. University teachers report occupational stress with strong correlations to emotional fatigue and disengagement. workplace Aggression in undergraduate classrooms, anxiety amid job insecurity and emotional detachment under conditions of precarity are no longer anomalies but symptoms of a sector-wide crisis.

This collapse of teaching as a vocation at every level demands a fundamental rethinking of how academic labour is structured and institutional success evaluated.

Schools That Care

Children want schools where there is understanding without judgment, and teachers being curious about what sustains them and standing alongside them, not against them

IMAGINE BYSHELIA

NARRATIVE AND FAMILY THERAPIST, WRITER, CO-FOUNDER OF CHEORENIERS1



N THE old British times, canaries were sent down-coal mining shafts to detect tooks gasen. I think our children are metaphotical canaries of our times. Keeping in mind the spate of recent children's suicides, the youngest being nime years old. Lam going to put the spotlight on our schools for this resing toxicity. This is not to blame but to reflect and take accountability for how we are harming our children.

Schools can perpetuate tortuite on our children in the name of discipline. From an early age, children start gening branded with labels like 'lary', 'buffer', 'pagur', 'slow', 'malanus', 'failure, 'good for not frieg' and so in, the ones targeted the most being generally the most valuerable—children with visible and invisible disabilities, those who do not get higher des, who come from law-mouther, note-savarra families.

I have heard stories of children being locked in dark furthrooms, beaten, having their offin taken away and not being allowed to go to the tolich until they wet their pans. In the news, we hear of much worse—children being asked to clean toliches, a child ahing after being made to do 100 sit-ups; a pen being prissed between uny fingers; being tid quantitation and beaten, branded with altor two, standing on a chair until collapse; being made to stand in the scan in peak summer afternoon.

What is the most frightening about this "unture-in-the-name-of-discipling

method" is that it weaponises the very people will can protect the child — peers and parents. Sona grew up in a shelter home for the children. She shared that the first that he that he children she she shared that children will apply the children will after and encouraged other children will in the public humilities. During the break, she spent hours locked in the today in except her pours, hand was locedy or allow that tousers in class and the class secred at him when he stand crying, shahean, sindying in Class Ki, described it as, "schools are like The Homes Grave. We are prived agains each other and it is survival of the fixest".

Payrits are absorbered in orthis deadly game by repeated complaints and blame. Again, the ones most targeted are those whose children do not fit the normative ideas of academic success. They are humiliated in the PTMs, in the principals offices and, in turn, in their despension, they punish their children.

Children do not suddenly, on a whim, decide they want to end their lives. They hang on to threads that the them to life—it could be a lowing bottle, a sense of belonging in a school, a feeling of worthiness, knowing that they are active agents in their own lives and so much more. What if threads were snipped off one at a time until there is nothing but shame, isolation and no hope? There, a little nudge can be a tipping point. Mary be it was an impulse at that time but



GCTTY WHG LS

we crase the months and years that led to that moment.

There has been hoge outrage at the number of suicidas in children in the past couple of weeks. One in Class 4, one in Class 7 and one in Class 10. How can we even make sense of this? I have beend statements like, "Unidenthese days are very fragile", "They armso impulsive." These ideas are problem ack as they assume that our children are disordened, when it is the structural and systemic impusions in our society that are not of order. Contains cannot be blamed for the toxicity in the mines.

Safety at the core of education

Swing our children's lives is a civil rights torue. We have to keep their safety at the centre and then think about how we design education around it. Not vice versa.

Once we have that clarity, then there are so many innovative ways to reimagine schooling.

Upholding the dignity of every child

The National Education Policy (MEP) has five foundational pillurs: access, equity, quality, affordability and accountability. What if, at the centre of all these, was upholding the dignity of every child? Not just as a vague concept but as clear practice guidelines on language, respect, how to respond to children when they go through difficult times and ways to finish inclusive classification, etc. You might dismiss this as requiring too many resources or time but let's goback to the principle. We have to keep children's safety at the centre and then think about how we design education around it.

SAFETY BUGINS

Saving our children's lives is a civil rights issue

Accountability

Many times, teachers have shared with me that they are aware that some teachers are extremely "muel" towards students but they do not want to talk about it because they fear abacklashor, at times, even losing their job. It is the managiment 's job to ensure accountability in woven into daily practices. We carnest wait for our children to die to start taking action. It also does not help if the action against teachers is punitive. That perpetuanes the culture of huma and injustice. Teachers are just replicating what they have losmed in the culture they have grown up in. We have to design wholesome systems that include train-

ing in compassion as a pre-requisite to being a teacher, an early response to marsgressions and a system that prioritises teachers' wellbeing. Schools that care for their teachers care for their teachers care for their teachers.

Peer mentoring

Many times, children find it easier to talk to other children who are non-judgmentaland can

underständ the struggles of being a studiest. What if, in every school, some senior students were trained as peer mentoes who could provide a safe space to listen, understand or even grutly steer them toward an adult whom they trust such as a parent, a school counselfor or a teacher? These heard so many stories of children who have shared their struggles with a peer and felt immerse relief that someone "girts" and "tam not the

only one who feels like this". This approach is impactful when participation is voluntary and the peer mentors are well-trained and supported by the counselling team.

Schools that Care

Management bullies

the principal, the

principal bullies the

teachers, and then

the teachers bully the

students. Then they

tell the students not

to bully others'

I reinember an instance when a school principal was telling me how particular they were also in their anti-bullying policy. Soon after, I saw her berating a tracher harshly in front of me. I was reminded of a young leyen-old's words. "Management bulles the principal, the principal bullies the teachers and then the teachers bully the students. Then they tell the atudents not to bully

others."

When I asked young people, "What will make for safer schools?" their answers reminded one that the problem might be complex but the substandaes not have to be ution does not have to be noted science. "Let our such not be defined by our godes" and "showns that you care". What they are asking for issimple—understanding without todymers, being curious about what sustains

them and keeps them going and standing alongside them, not against them. A fellow therapet shared a statement by a young person who was contemplating suicide, which will stay with me forever. "Don't try to stop us, try to understand us. When you understand us, together we cantry to stop us,"

Schools That Care is an initiative by Children First for Building communities of care

istening to the Deal.

Shall We Read?

Parents and bookstores are doing their bit to naise the next generation of readers

Sonal Gunta

SATUROW APTERNOCOS are as been as ligito a Kahasa Tries a children's localistics in-Nerrichia Postinades. In Intelligati faste ble situation popula a hidden Diagno. Alloy shop, Tucked away issale a composta condimension, one stops that its warraly in wood parecked tree-mount space, the scena of newboots locating in the air. The assault of please beetle corridge trails. An also please trained Galpion (Schiegetterschias Interal senae dealt, while booked Posters of the Harry little properties.

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The sprightly 60-year-old derives, hergoria. Bhamash: noch is approfusion. Children are made readen in the lago of parents. Pergit what corner out of vocabuiety and understanding. The means before, and changes." she note. "When you read to them, you are bying to make them it still addition. That still not be important. When you read to them, they have to close their eyes, from to ware wore end imaging."

Asthe digital age out-the-up, parents are narrangto thereon analogue, nactionessing format available. The ide screening onpube combined with observations, tay tobreed on oricinataging provide to India's child serv-books market

Without servers. It is usually single state children to used beook, "uses harm the early here. It was all the set flower, at the same side contain. Even single her desighter Krisovi russ horn, the plus merasod a liver for mediang with fine hearth, black and whigh books an absorption." We made in absolute to yield to their prographs, "does not a faithful to yield be they prographs," does not a faithful to yield to their prographs. See how, At them, Krisovi, only sedden was close if yet and in completion madule of the

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SIR JAGADISH CHANDRA BOSE (NOV 30, 1858-NOV 23, 1937)

Physicist & father of Bengali sci-fi



TR JC Bese, the first Indian in the field of science to be elected Fellow of the Royal Society, was born at MymenSingh Bengal Presidency of British India on November 30, 1858. Born into a Brahmo Samaj family, his father believed that should be well versed in their local culture and tradi-

tions before being introduced to foreign influence. which is why a young Bose was enrolled in a Faridpur school where children from different castes, classes

and religion studied together.

At the age of 17. Bose moved to Calcutta and enrolled in St Xavier's college to pursue physics for five years, after which he travelled to England to study medicine at the University of London. Due to poor health, Bose had to leave medicine, and in 1881, he joined Christ's College at the University of Cambridge to study chemistry, physics and botany as a part of natural sciences.

Known for a versatile range of studies, Bose was the first to illustrate that plants have life and experience pain and pleasure, like animals. His observations were proven through his own invention-a crescograph.

Bose, a pioneer in radio and microwave optics, was also the first to demonstrate wireless communication using radio waves, besides detecting radio signals by

using semiconductor junctions.

It was in 1885 that he returned to India and joined Presidency College in Calcutta as a professor of physics. Despite racial discrimination in the form of disparity in salary compared with his British colleagues, Bose remained dedicated to teaching and research. As a token of protest, though, he taught without salary for three years, until his position was confirmed on a par with British colleagues. However, he was paid arrears in recognition of his commitment.

Science fiction intrigued Bose, so much so that he authored Niruddesher Kahini', underscoring his recognition as the father of Bengali science fiction. This tale of weather control highlights getting rid of a cyclone

using a small bottle of hair oil, Kunto Keshori'.

He spent the last years of his life at Giridih, in a house located near Jhanda Maidan, the building that was later named Jagadish Chandra Bose Smriti Vigyan Bhavan and inaugurated by the then Bihar Governor, Akhlaqur Rahman Kidwai, in 1997

Bose died at the age of 87. Bose Institute in Kolkata, a premier research institute dedicated to interdisciplinary scientific study, Acharya Jagadish Chandra Bose Indian Botanical Garden, Kolkata; and JC Bose University of Science and Technology are among the institutes perpetuating his name.

MAHESH SHARMA

