



Unlocking the Potential of Students with Learning Disabilities





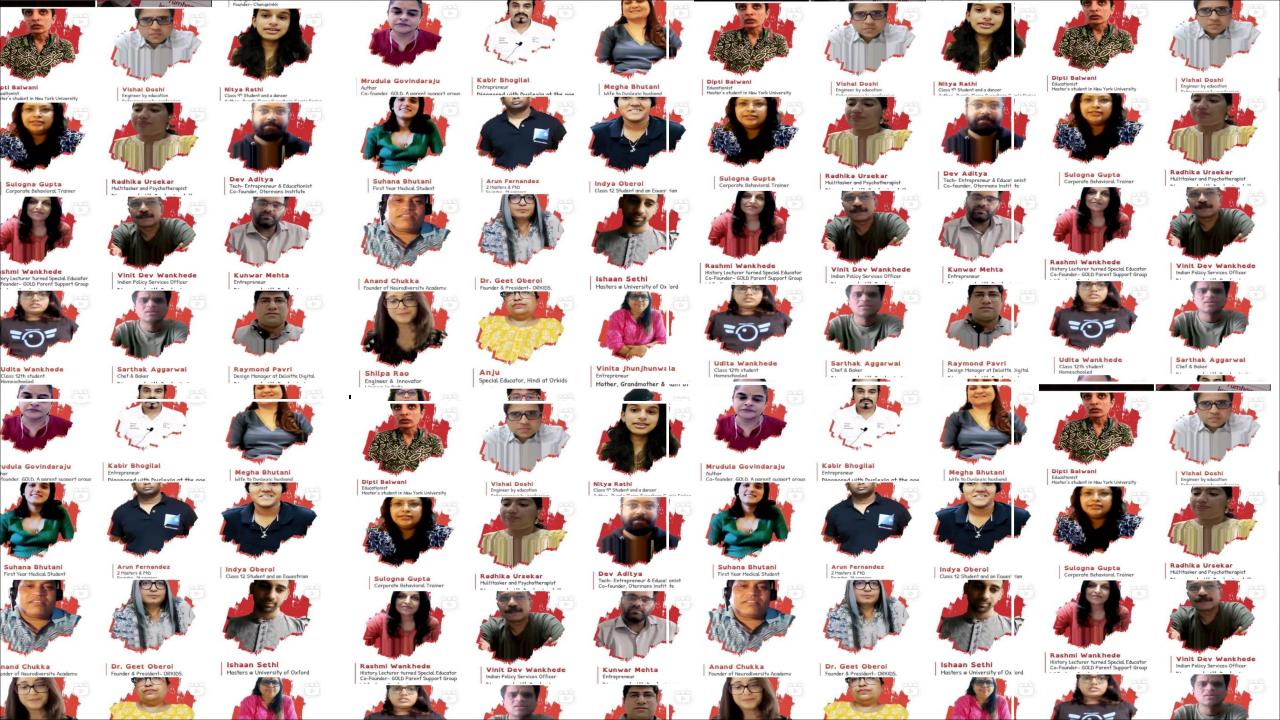




1 in 5 globally

Inventors. Entrepreneurs. Scientists. Architects. Technologists. Artists. Disruptors.











A lost economic opportunity.



In this picture, who do you think has a Specific Learning Disability?







- Includes Dyslexia, Dyscalculia, Dysgraphia, Dyspraxia
- Differences in the way people's brain function, process and learn information
- Individuals with <u>average or above average IQ</u>
- Lifelong condition that runs in families
- Access to accommodations and assistive technologies help individuals excel through their lifetime
- Invisible disability- diagnosed through psychometric testing



Dyslexia struggles with language...

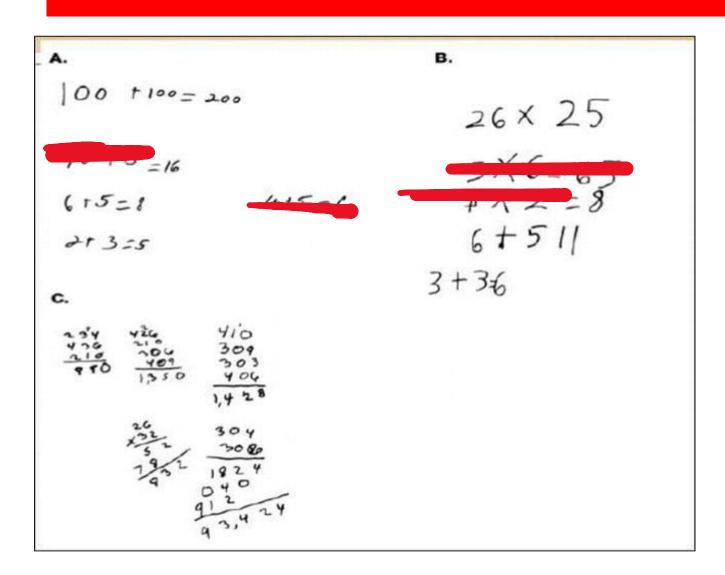
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Dyslexia
accounts for
at least 80%
of all SLDs



Dyscalculia struggles with math...

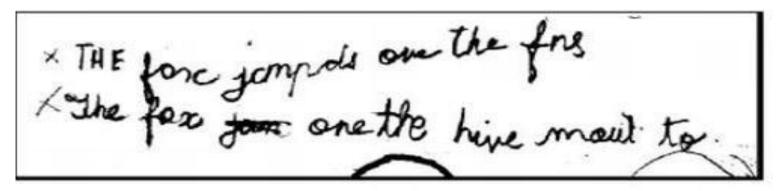


Dyscalculia is present in about 5% of the population



Dysgraphia struggles with writing...

Diagnosed in childhood, affects a person's handwriting ability and fine motor skills.



The fox jumped over the fence. The eagle flew over the high mountain top.







SLDs struggle with daily life...

Poor self-esteem: Judgements about IQ based on reading & writing capabilities, spark emotions and frustrations.

Memory challenges: Can easily forget tasks and deadlines, especially when provided multiple instructions at once

Sensitive to over-stimulation: Struggles with concentrating due to movement, sound, light

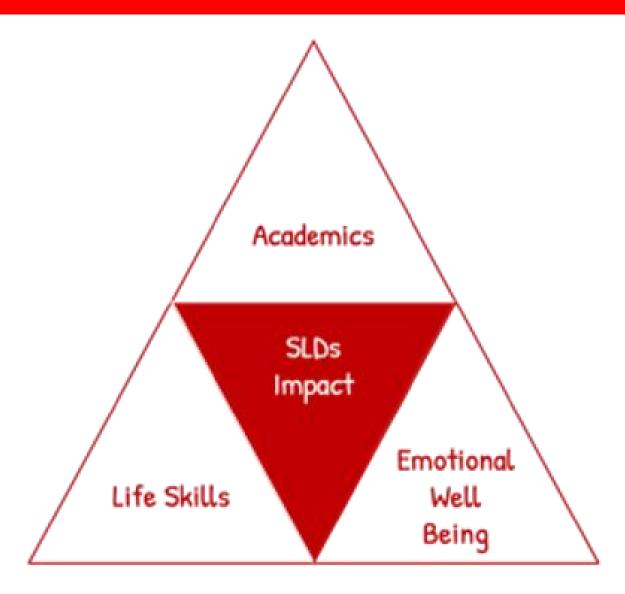
Gap in oral and written performance: They are good communicators but poor in writing skills.

Slow processing: Generally, take longer to process information, reading, writing

Difficulties in planning: Dyslexics often struggle with time management, which impacts their ability to plan tasks and manage deadlines



3 Aspects of Dyslexic Struggle





Screening and Identification

As per the RPwD Act, 2016, diagnosis of SLDs can happen only in or after third grade or 8 years of age, whichever is earlier.

Screening

- While a formal diagnosis can be done only after 8 years, a screening process can be undertaken for early identification of a child at risk of SLD.
- The process is much like taking a child to get their eyes tested for poor vision after regular complaints of a headache.
- As part of the screening process, one must assess not just academic performance, but also the impact on daily life and emotional well-being.
- The screening must be done in the primary language of the student.

Diagnoses



Diagnosis of SLDs requires either:

- A pediatrician
- A psychiatrist
- A Pediatric Neurologist or
- Clinical or Rehabilitation Psychologist.

Diagnosis for SLDs is a 3-Step process:

Step 1: Assessment

to eliminate any visual or hearing impairments.

Step 2: IQ Assessment

by Child psychologist/ Clinical psychologist/ Pediatric neurologist/ psychiatrist. Only if the IQ is determined to be average or above (>85), then Step 3 will be applied.

Step 3: SLD Assessment

involves application of specific psychometric tests for diagnosing SLD and giving it a severity scale.

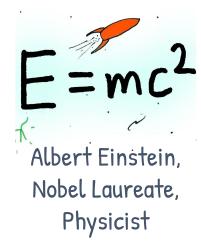
Once a benchmarked (40% or more) disability diagnosis is confirmed, a Disability Certificate and UDID card can be issued by the competent authority. The disability certificate is needed to access any facilities, benefits, or concessions available under the government schemes for PwDs.

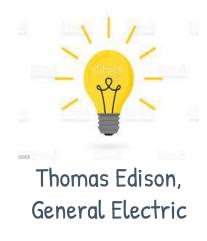


Yet #DyslexicThinking drives us all forward.



It powers our life...















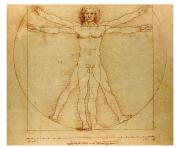
Steve Jobs, Apple







& our imagination.



Leonardo Da Vinci



Walt Disney



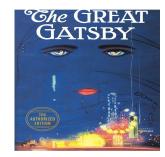
Steven Spielberg



John Lennon



Cher



F. Scott Fitzgerald



Agatha Christie



Robbin Williams



Tom Holland



Vir Das



It generates employment...

































& drives innovation & productivity.



A neurodiverse employee helped develop a technical solution, which led to \$40 million in savings for the company!



Neurodiverse employees make fewer errors & are 90% -140% more productive than neurotypical employees.



Saved 3.5 million+ hours & \$300 million for the company through innovative solutions for business process optimization during the pandemic



How does a mind that can't process language, make such an impact?



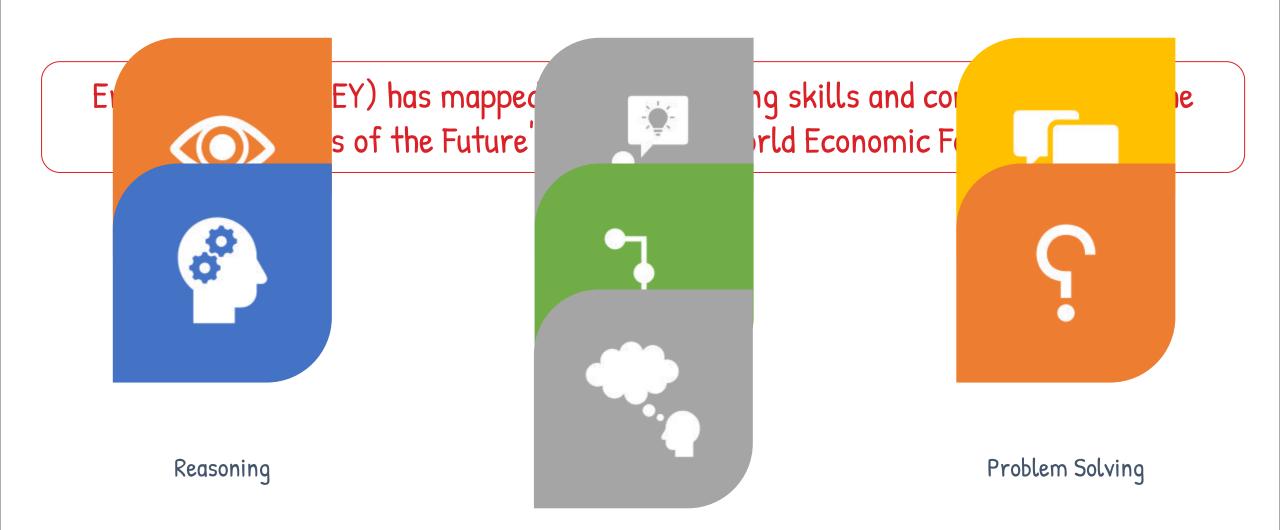


am today if I wasn't Dyslexic. In the real world, Dyslexia can be a huge advantage. Many people with Dyslexia have great imaginations, creativity and problem-solving skills.

Sir Richard Branson, Founder, Virgin Group

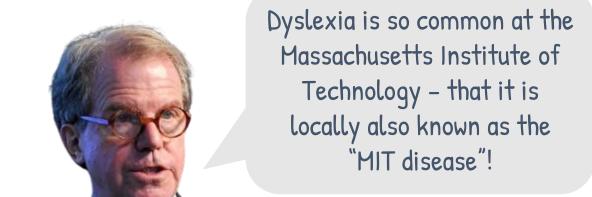


Dyslexics think differently...



Top universities are welcoming students with SLDS....





















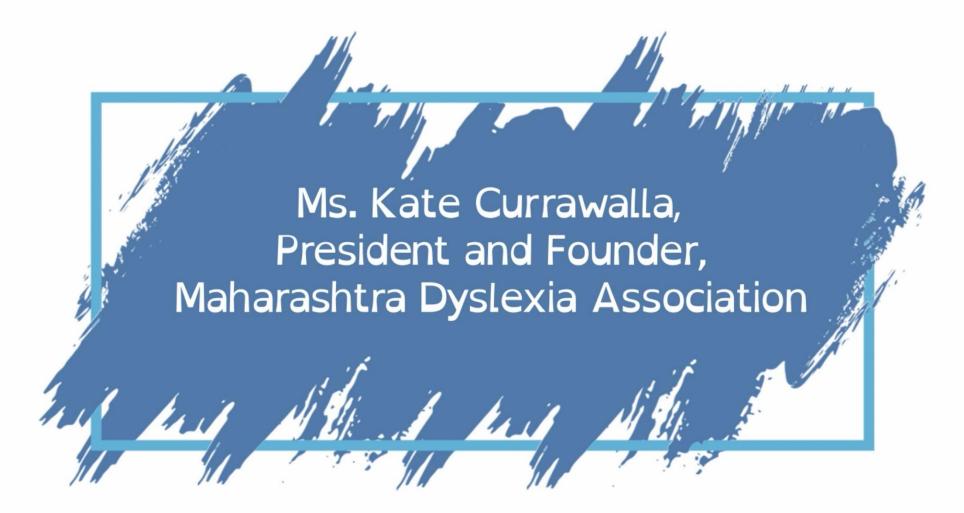


Dr. Nicholas Negroponte, Dyslexic & Founder of MIT Media Lab and the One Laptop per Child Association



Yet #DyslexicThinking drives us all forward.







Dyslexics are resilient. With the right support, they find ways to cope & succeed





Over 80% of Dyslexics attribute their success to their "Dyslexic Thinking"

40% of world's self-made millionaires

Top 10 companies founded by Dyslexic contributed over \$1 trillion to the global economy in 2020

Inclusion in companies could lead to GDP increasing by 1.2% annually.

By 2027, 25% of Fortune 500 companies will actively recruit neurodiverse talent to improve business performance.





And yet only...

3% believe that Dyslexia is a positive trait

1 in 20 gets identified

35% higher chance of dropping out

73% of Dyslexics hide their disorder from employers



Let's navigate this gap...

Dyslexia is common at the Massachusetts Institute of Technology – to the extent that it is also known as the MIT disease!

A total of 7 neurodivergent students enrolled into IITs in 2023...



Are your ready to unlock the potential the next Dyslexic Disruptor?

Admissions. Academic Support. On-campus Support. Assistive Tech. Employment Opportunities.





Struggles of transitioning to HEI

On Campus Life

Disclosure & self-advocacy

Bullying, rejection, isolation and stonewalling from the peers

Managing daily tasks independently

Need for support systems

Academic Life

Coping in the classroom: reading, writing, notetaking, etc

Managing "academic tasks"planning, timely submissions, exams

Academic planning

Balancing academic and college-life pressures

Emotional Well-being

Risk of low self-esteem and depression

Overwhelmed with managing new environment

Peer pressure, high levels of anxiety and risk of over-stimulation



What is India doing to tap into this critical resource pool of Dyslexic Thinkers?



Right of Persons with Disability Act, 2016

Formally recognized as a disability in India for the first time in 2016.

"As heterogeneous group of conditions wherein there is a deficit in processing language, spoken or written, that may manifest itself as a difficulty to comprehend, speak, read, write, spell, or to do mathematical calculations and includes such conditions as perceptual disabilities, Dyslexia, Dysgraphia, Dyscalculia, Dyspraxia, and Developmental Aphasia."

Mandates 5% reservation for PwDs in government and government aided institutions



New Education Policy 2020

This Policy is in complete consonance with the provisions of the RPWD Act 2016

Mandates that children with disabilities (including those with learning disabilities) will be enabled to fully participate in the regular schooling process from the Foundational Stage to higher education, ensuring equitable access to quality education.

Universities and colleges will thus be required to set up high-quality support centers to support SEDG students to transition to higher education



New Education Policy 2020



Steps to be taken by Government

- Earmark suitable funds for the education of SEDGs
- Set clear targets for higher GER for SEDGs
- Provide more financial assistance and scholarships to SEDGs in both public and private HEIs
- Conduct outreach programmes on higher education opportunities and scholarships among SEDGs
- Develop and support technology tools for better participation and learning outcomes



Steps to be taken by all National HEIs

- More financial assistance and scholarships
- Conduct outreach and provide scholarships
- · Make admissions processes & curriculum inclusive
- Ensure all buildings & facilities are disabled-friendly
- · Develop bridge courses, provide counselling & support
- Ensure sensitization of faculty, counsellor & students
- Strictly enforce all no-discrimination & anti-harassment rules
- Develop Institutional Development Plans for action on increasing SEDS participation.

Existing Regulatory & Policy Mandates



C Guidelines

Transition support from schoolto-college & graduation-to-post graduation

Providing support throughout the admission process through accessible application processes and formats (meeting WCAG guidelines)

Providing counselling support, induction and orientation

Need Assessment Board shall formally assess the specific needs of PwDs

Scholarships and schemes

Guidelines

Promote admissions of students with SLDs under PwD category

Streamline admission processes

AICTE

Provide admission accommodations for students with SLDs

Scholarships and sponsorships through Disability Support Unit (DSU)



Guidelines

Candidate to be able to opt for their own Scribe/reader/lab assistant

Candidate to choose mode of examination (online/offline) or recording the answers.

Compensatory time of at least 20 minutes per 1 hour of examination.

Use of Assistive devices

Seating arrangement keeping in mind distraction-free environment

Reading material to be provided in accessible format

Alternative objective questions in lieu of subjective questions.









Dr. Sally Shaywitz, Yale University

Audrey G. Ratner Professor of Pediatrics (Neurology); Co-Director, Yale Center for Dyslexia & Creativity

a totally different image of what it is.

Inclusion at Leading Institutions





Massachusetts Institute of Technology: Disability & Access Services Office (DAS)



Yale University: Yale Center for Dyslexia & Creativity



University of California, Berkeley: The Office Disability Access & Compliance, Disabled Students' Program



Stanford University: Office of Accessible Education & Center for Teaching and Learning (CTL)



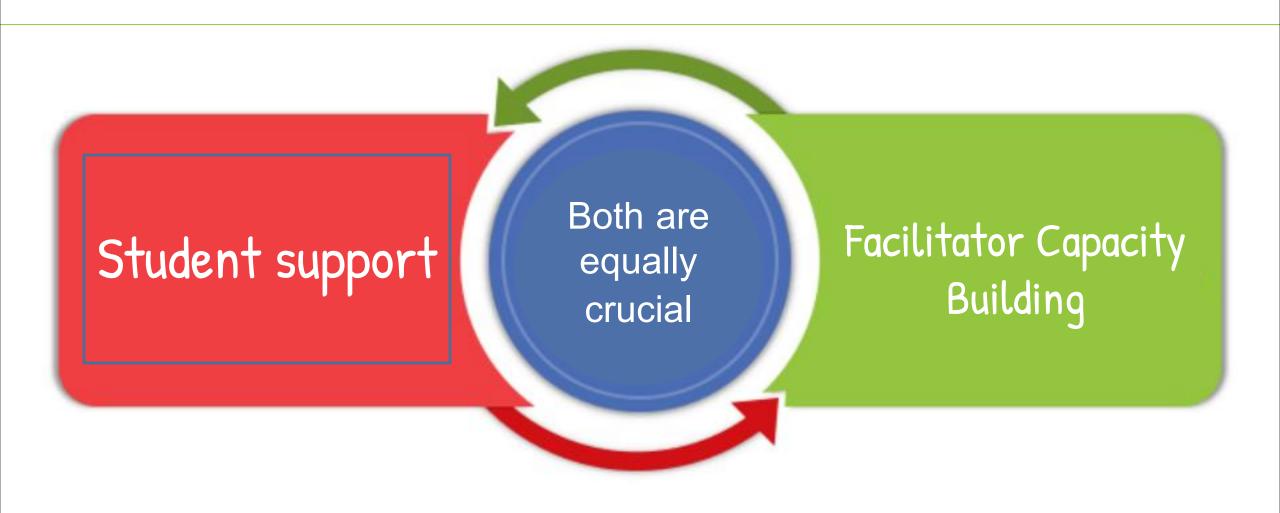
IIM, Bangalore: Office of Diversity & Inclusion, Center for Teaching & Learning



Ashoka University: Office of Learning Support



It is a 2 Prong Approach



Pillars for SLD Inclusion in HEIs



Admitting students with SLDs in the PwD category

Accommodations for

entrance exams (scribes. compensatory time, preferential seating)

College Readiness & Counselling available throughout the admission process

Admission personnel trained for SLD needs

Scholarships

Course Material in accessible formats

Instructional Aids and Services: Note

cadem es Takers/Scribes/Devic

✓ Alternative assignment deadlines

> Accommodations; compensatory time, readers, distractionreduced setting, clarification of questions

Tutoring; counselling, support: buddies

Comseling Support, coshing and academic planing support

> Avalability of acemmodations based on needassessment at the time of admissions

Availability of oncampus champions to advocate.

Mental Health Support; Faculty Capacity building, Assigning campus buddies.

Schemes/Scholarship s Eprovide resources to students with SLD, ₹ sue as SAKSHAM (AICTE).

> Demonstration of AT usage

Assistance in making academic course material accessible

Providing all information related to placements, internships, scholarships in digitally and otherwise accessible formats

Employer sensitization on potential of students with SLDs

Relaying information to students about inclusive employers.







- Consultations; personal learning
- Reasonable case-by-case accommodation
- Awareness and advocacy
- Coordinating stakeholder

Counselling Support



- Curriculum adjustments; inclusive pedagogy
- Modifying learning environments and

Academic

Support



- Consultations on assistive technology options
- Makes assistive tech available for student

<u>Assistive</u>

Technologies



- · R & D for SLDs
- YCDC Dyslexia
 Interventions and longitudinal studies
- The McGovern Institute for Brain Research

Research









Remember: When inclusive classrooms are designed well, interventions for students with SLDS, help ALL students learn better

Where should

Where can you begin?





1

Start at the Beginning: Inclusive Admissions, Increasing PwD Category Enrollment, Tracking Success Stories



2

Sensitization and Awareness: Faculty,
Administration and Students



5

Consciously Building a Culture of Inclusion



3

Accommodations under the 2Cs: Classrooms and Curriculum



4

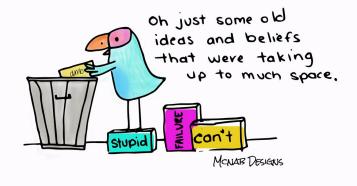
Centers of Support: Creating a
Disability Support Unit/Equal
Opportunity Facilitation Cell/Center
of Learning Diversity



Don't miss out on the genius of the next







Thank-you.

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