Braille Tutor

Learn Braille for English, Indian languages and Numerals with tutorials and exercises

Online Labs with Simulations

Interactive online simulations for practical experiments in Physics, Chemistry, Biology, Math's for children with hearing, intellectual impairments as a virtual science laboratory

Online accessible Library

Go Read
Go Read Bookshare

Bookshare
A BENETECH INITIATIVE

Online accessible library for persons with print disabilities to read books magnified, as audio, as well as convert to braille if required.

Tablet Mounts

Table mounts with swivel motion for persons with motor difficulties to easily handle mobile devices and tablets in workstations.

DAISY Players

DAISY players support persons with print disabilities to listen to text books as talking books with easy navigation, bookmarks and can read PDFs, document files

Mobility Alert Aids Support for VI

Mobility Aids like Smart Cane, Saarthi, Ausion support persons with visual impairment in identifying obstacles above ground level for navigation with vibration, audio alerts

Vocational Training Devices

Sublimation Printing Machines

Dye sublimation printing transfers images onto materials with a colour impression on them

Scanners, Printers and Lamination Machines

Tactile Graphics, Braille Printing

NATIONAL INSTITUTE FOR EMPOWERMENT OF PERSONS WITH MULTIPLE DISABILITIES (DIVYANGJAN)

~Accredited by NAAC~ ~ISO 9001:2015~ (HRD & Clinical Services)
(Dept.of Empowerment of Persons with Disabilities (Divyangjan), Ministry of Social Justice & Empowerment, Govt. of India)
East Coast Road, Kovalam Post, Muttukadu, Chennai - 603112
Phone: 044-27472423, 27472104, Toll Free No: 1800-425-0345

****

Information & Communication Technology (ICT) Lab for Persons with Multiple Disabilities is initiative of NIEPMD in order to facilitate the objectives of various act & policies implemented at National & International level to create awareness on ICT and empowerment of Persons with Disabilities (PwDs) by their usage.

Objectives of this ICT Lab

➢ Access to Technology aided skills and communication development of Communication.
➢ Adaptations through Assistive Technology for individual's abilities
➢ Knowledge acquisition, encouragement for collaborative efforts and updates through network connectivity
➢ Encourage research and development for make in India Assistive Technology products facilitating product evaluation and feedback from users
➢ Training modules on Assistive technology and ICT based teaching to develop listening, speaking reading and writing, drawing, mathematical skills

Need for this ICT lab

➢ New learning methodologies for PwDs include Information Communication Technologies (ICT) And Assistive Technology (AT).
➢ They offer significant improvements in inclusion, development, e-learning and education particularly for Persons with Multiple Disabilities.
➢ They assist and support them as vital enablers in their path for equal employment and independent living opportunities.

This lab is established with special reference to RPwD Act 2016, Chapter 8 Section No. 42 "Access to Information and Communication Technology"

This ICT Lab for PwDs aims to fulfill the mandate of

❖ Signatory to Declaration on the Full Participation and Equality of PwD's in Asia Pacific Region (2000)
❖ Signatory to the Biwako Millennium Framework (2002) for action Towards inclusive
❖ Barrier free and rights based society, Biwako plus Five (2007)
❖ UN Convention on the Rights of PwD's (2008)
❖ The Incheon Strategy to "Make the Right Real" for PwDs in Asia and the Pacific (2012)
❖ The Sustainable Development Goals (2015) pledges for "Leaving no One Behind"
❖ National Action plan an skilling for PwDs 2015
❖ The Rights of Persons with Disabilities Act, 2016

Contact: Phone: 044-27472113, 27472046, (Extn No.368),
Toll Free No: 1800-425-0345
E-mail: niepmd.dail.ictlab@gmail.com, niepmd.dail@gmail.com

ICT Lab Users

From inception in 2015, the lab has created awareness and encouraged various stakeholders in knowledge acquisition, training and use

1. Persons with Disabilities
2. Parents
3. Teachers
4. Special Educators
5. Vocational Instructors
6. HRD Trainees
7. Internship students
8. Rehabilitation Professionals
9. Teacher Training Institutions
10. Children in Special and Inclusive Schools
11. Visitors from various fields
12. Government Authorities 13. Employers (Private & Public Sectors)
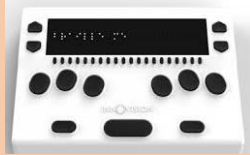
SCAN QR CODE TO DOWNLOAD BROCHURE

Assistive Devices in ICT Lab for Persons with Multiple Disabilities

Touch Screen and Large Display Monitor

Magnified viewing, clicking, scanning and typing text and operate on icons, menu, with onscreen keyboard for low vision and gross / fine motor difficulties

Refreshable Braille Display and Note Taker

Reading text, navigating, operating commands from computer / laptop / mobile devices in braille, typing / input text using 6 Key typing with note taking for blindness, deaf blind conditions

Large Print Keyboard

Typing / operating computers / Mobile devices with color contrast keys for persons with low vision, reading difficulties

Colour Coded Hard Press Keyboard

Hard press rugged keys for rugged aggressive operations, fine motor difficulties with different colour code for alphabets, numbers, command keys, special characters to assist typing and operations for intellectual and developmental disabilities

Onscreen Keyboard

Onscreen keyboard in computers or mobile devices that enable clicking, scanning type inputs with word prediction with easy typing and composing longer contexts for persons with gross / fine motor difficulties
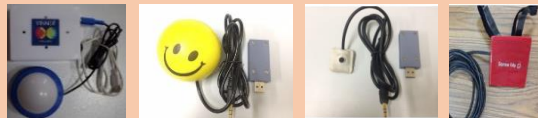
Trackball Mouse

Adapted Mouse for rugged operations, with firm grip to surface for gross and fine motor difficulties, amputation in hands with easy to scroll trackball and distant left and right click keys

Foot Mouse

Adapted Mouse with firm grip to surface for gross and fine motor difficulties, amputation or absence of hands with easy to scroll foot control and distant left and right click keys to operate computers / mobile devices
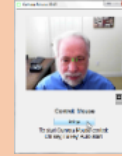
Contact and Non-Contact Switches

Adapted Contact Switches for rugged or fine contacts using hands or any body parts, or palm and finger grasp pressing, or single finger press operational, easy to fix in any assistive device to operate computers / mobile devices for persons with gross or fine motor difficulties
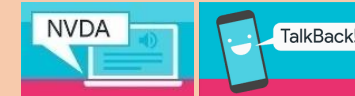
Assistive Software in ICT Lab for Persons with Multiple Disabilities

Camera Mouse

Camera based Adapted Mouse for computer operations for those with severe gross / fine motor difficulties in hands and legs

Screen Reader

Read language text contents, menus in computer / mobile devices and operate applications with voice enabled. Also, convert text to braille for refreshable braille display reading for visual impairments and reading difficulties

Talking Typing Tutor

Learn computer keyboard operations with practice sessions and exercises voice enabled for visual impairments

Speech Recognition Software

Speak and Operate the computer or Mobile Device, or type with voice in English as well as Indian languages for note taking for persons with severe locomotor, visual impairments.

Literacy Support Software with Easy Word Processing Features

Easy to use word processor with multi- disciplinary way of output and input features that support persons with intellectual, autism learning difficulties, locomotor, visual and hearing impairments with word prediction, interactive worksheets, visuals, text as well as audio
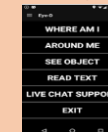
Picture Text Speech App

Communication and Language development app in multi-language with images, audio recording facility for children with speech impahents, autism and other developmental disabilities

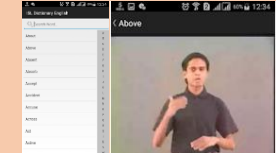### Augmentative Alternative Communication (AAC)

Augmentative communication App facilitates picture, text, speech in words, sentence formats also by typing for persons with non-verbal conditions of autism, cerebral palsy and speech impairments

Mobility Aid and Reading App

Mobility aid app supports in finding the location, nearby facilities, scan and read text in print forms for persons with visual impairments. audio recording facility for children with speech impairments, autism and other developmental disabilities

Indian Sign Language Dictionary

Learn and communicate with Indian Sign language for English and Indian languages