

Certificate Programme in
**ASSISTIVE TECHNOLOGY
SOLUTIONS**



January - July, 2021

The second batch of the six-month, part-time Certificate Programme in Assistive Technology Solutions organized collaboratively by the National Institute of Speech & Hearing (NISH), National Institute of Physical Medicine and Rehabilitation (NIPMR) and Kerala Development and Innovation Strategic Council (K-DISC) will commence in January, 2021. The format of the course has been updated, keeping up with the times, so most of the course will be delivered online with an optional 3-day hands-on session, at Thiruvananthapuram, towards the end.

[Apply to participate](#)

Last date for registration
and payment of fees

30
NOVEMBER,
2020

NATIONAL INSTITUTE OF SPEECH & HEARING

Accredited as Excellent Institution by RCI | ISO 9001:2015 Certified | Accredited by NAAC with A-Grade

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Programme Outcomes

Are you...

A rehabilitation professional?

The course will broaden your knowledge regarding the technologies available in the Indian context. You will be exposed to the AT service delivery process, which is essential to maximize AT adoption and minimize abandonment.

An engineer / technology developer/ Entrepreneur?

The course will provide you an in-depth understanding of assistive technology solutions and support your first step in the design thinking process, which is to empathise with the end users of AT, that is, persons with disability. You will also learn about the gaps in the existing AT solutions in the market.

A Person with Disability (PwD) or a caregiver of a PwD?

The course will increase your awareness of the several AT solutions available in India. You will meet persons with disability who are fore-runners in successfully adopting AT solutions in their everyday lives.

The course will provide a platform for all the different stakeholders in the AT ecosystem to learn from 'AT implementation' experts, share their perspectives and build partnerships to jointly find solutions.

Course fee and scholarships

For the online course, including hands-on kit	Rs 15,000
Three day camp at Thiruvananthapuram, including stay and food	Rs 5,000

A few scholarships are available for deserving candidates. They will be selected on the basis of criteria decided by the course advisory committee.

Programme requirements

- Professionals or graduates with an experience in disability, tech-savvy and self-driven. Rehabilitation professionals like Occupational Therapists, Speech Language Pathologists and physiotherapists will be most benefited. Engineers and assistive technology developers wishing to understand end users of AT and their needs better will also find the course useful.
- The participants MUST have access to a PC or a laptop and a mouse, with at least 1Mbps internet connection, as the course includes tutorials in CAD modeling.
- The participants will make use of the materials in the course kit for the hands-on sessions. The course kit will be posted to them at the beginning of the course.

Programme mode of delivery

- The entire course will be delivered online, except a three-day face-to-face camp at the end of the course, which will take place at Trivandrum, Kerala. The camp will consist of practical sessions, including a visit to the digital fabrication facility at Fablab. It will conclude with the course graduation ceremony. It is highly recommended, but not mandatory for the participants to attend the camp. The course certificate will be posted to those who miss the camp.
- The sessions will be synchronous or asynchronous, using video conference and Google Classroom. The complete schedule will be shared with the registered participants.

Programme Duration

Six months from **January to July, 2021**.
The sessions will be for **6 to 8 hours every week**.

Glimpse into the course content and faculty

Rethinking AT design and implementation for India	
Prof Therese Willkomm, University of New Hampshire	Rapid Creation and Deployment of Low Cost AT Solutions
Ms Anju Manoj, Al Noor School of Special Needs, Dubai	AT assessment and implementation : a multidisciplinary approach
Dr Dan Phillip, Nika Project, USA	Innovative AT tools for the modern world
Dr Akila Surendran, CATI, NISH	Tools for online education : how to maximize engagement within the limited screen time
Accessibility	
TARA, Vidyasagar, Chennai	Home-modifications for accessibility of personal spaces
Ektha Trust, Chennai	Accessibility of public spaces
Prof Divakaran Liginlal, Carnegie Mellon University, USA	Introduction to digital accessibility
AT for persons with locomotor disabilities	
Mr Nekram Upadhyay, Indian Spinal Injury Centre, New Delhi	Seating, positioning and mobility
Dr. Sindhu Vijayakumar, NIPMR, Thrissur	Low-cost aids, early intervention and schooling
Prof Shovan Saha, Manipal University, Karnataka	AT for hand rehabilitation
AT for persons with hearing impairment	
Prof Ajish Abraham, AISH, Mysore	AT for persons with hearing impairment
Ms Raji Gopal, NISH, Trivandrum	AT for deaf education
Mr Alim Chandani, Access Mantra	AT user's perspective: Deaf
Mr Denny Sebastian, IOCL, Chennai	AT user perspective: hearing impairment
Augmentative and Alternative Communication (AAC)	
Ms Bhavna Botta, Vidyasagar, Chennai	AAC user's perspective
Ms Kalpana Botta, Vidyasagar, Chennai	AT devices for computer access
Ms Swati Chakraborty, IICP, Kolkata	AAC intervention and implementation
AT for persons with visual impairment	
Dr Namita Jacob, Chetana Charitable Trust, Chennai	AT for persons with visual impairment
Mr Dipendra Manocha, Daisy Consortium, New Delhi	AT user perspective : visual impairment
Mr Anindya Bhattacharyya, Technology trainer for the Deaf-Blind, USA	AT user perspective: deafblindness
AT for persons in the Autism spectrum	
Ms Akila Vaidyanathan, Amaze Charitable Trust, Coimbatore	AT for persons in the Autism spectrum
Mr Nishant Sriram, Amaze Charitable Trust, Coimbatore	AT user perspective

AT for the workplace	
Mr Ned Stoller, Agrability Foundation, USA	AT for farmers with disabilities
Enable India, Bengaluru	AT for the workplace: examples from India
AT prototyping	
Mr Amith G Nair, CATI, NISH	Digital fabrication, Basic electronics and Arduino programming
Mr Manu T, Industrial Designer, Kochi	Aesthetic appeal of AT: why is it important
AT productization	
Mr Prateek Madhav, Assistech Foundation (ATF)	AT startups : opportunities and challenges
Social Alpha, Bangalore	Journey from AT prototype to product <ul style="list-style-type: none"> • Dr Suresh Nair (Design Alpha) - Demystifying the Design for Manufacturing efforts • Mr Pulkit Aggarwal - Resources required to launch a product • Flexmotiv - Journey of an entrepreneur

