

ANNUAL REPORT 2020-21

RESEARCH

The institute promotes research related to communication and its disorders. Special emphasis is given to clinically relevant applied research on causes, control and prevention of communication disorders, assessment and treatment issues as well as the testing and refinement of new technologies for the speech and hearing impairment. Major research activities carried out at the institute during the reporting year are given below.

Funded Research Projects

The research projects include extramural and those funded by the institute from the AIISH Research Fund (ARF). Extramural research projects were funded by the Department of Science and Technology (DST), Science and Engineering Research Board (SERB), the Government of India funding agencies, and UK Research and Innovation (UKRI) and United Nations Global Partnership for Assistive Technology, the international funding agencies.

Completed Projects

Fifty-four research projects worth **Rs. 249.97 lakhs** were successfully completed during the reporting year. All the completed projects were funded by the Institute.

AIISH Funded Research

Sl. No.	Topic	Investigators	Amount in lakhs
1.	A Comparative study on the influence of recording options on speech analysis	Dr. Ajish K Abraham	4.93
2.	A descriptive study on the video-fluoroscopic measures of neurogenic dysphagia in patients with stroke and motor neuron disease	Dr. S P Goswami, Dr. Muralidharan Nair, Dr. Sylaja, Ms. Gayathri Krishnan & Ms. Manju Mohan	4.93
3.	A pre-post comparison of vocal loading using infrared thermography in phono-normals	Dr. R Rajasudhakar	5.03

4.	AIISH survey of fluency disorders	Dr. Y.V Geetha & Dr. Sangeetha Mahesh	4.03
5.	An adaptation of Bankson language screening test in hindi (BLST-H)	Dr. Brajesh Priyadarsi & Dr. S.P Goswami	4.93
6.	An adaptation of early reading skills (ERS) in Malayalam (ERS-M)	Dr. Brajesh Priyadarsi & Ms. Gayathri Krishnan	4.93
7.	Audiological and vestibular assessment in persons with osteoporosis and osteopenia	Dr. Prawin Kumar & Dr. Raghunandana S	4.93
8.	Auditory processing in children with speech sound disorders	Dr. Chandni Jain & Ms. Priya M.B.	5.05
9.	Behavioral and electrophysiological correlates (N400) of lexical and phonological access in children with stuttering	Dr. M. Santosh&Dr. M Sandeep	4.93
10.	Bithermal caloric test and video impulse test for the assessment of unilateral vestibular pathologies	Dr. Niraj Kumar Singh & Dr. Rajeshwari G	4.33
11.	Construction and validation of a short version of the impact scale for assessment of cluttering and stuttering (ISACS)	Dr. Santhosh M.& Dr. Pallavi Kelkar	4.83
12.	Database on communication disorders published in India	Dr. Shijith Kumar C., Mr. Nanjunda Swamy M. & Mr. Nandeesh B	4.20
13.	Development and standardization of an oral sensorimotor evaluation protocol for children (OSEP-C)	Dr. N. Swapna	4.33
14.	Development and standardization of reading passages for children in Kannada	Dr. Sangeetha Mahesh	4.93
15.	Development and validation of a computerized screening tool for infant cry	Dr. N. Sreedevi, Dr. Jayashree C. Shanbal & Mr. Arunraj K.	4.43
16.	Development and validation of a screening tool for detection of dysphagia in neonates	Dr. Swapna N	4.93
17.	Development of a grade level assessment tool in social science (GLAT-SS) of Karnataka state education board	Dr. Palnaty Vijetha& Dr. Alok Kumar Upadhyay	3.85
18.	Development of a preliminary test for assessment of prosody in children with SLI	Dr. N Sreedevi& Dr. Sangeetha M.	4.88
19.	Development of AIISH hyperacusis	Dr. Prashanth Prabhu P.	4.93

	assessment toolbox for individuals with tinnitus associated with hyperacusis		
20.	Development of an objective tool for aphasia assessment through artificial neural networks	Dr. S.P Goswami & Dr. Abhishek B.P	4.83
21.	Development of low frequency range word lists in Malayalam	Dr. Prashanth Prabhu & Dr. Jithin Raj B.	4.93
22.	Development of severity rating scale for children with autism spectrum disorders	Dr. K.C. Shyamala	4.93
23.	Development of toy usage index for children with developmental disabilities	Dr. S Venkatesan	3.01
24.	Discourse and working memory in neuro-typical individuals and adults with aphasia	Dr. Hema N.	4.98
25.	Effect of auditory deprivation on some aspects of temporal processing and speech perception abilities	Dr. Sandeep M. & Dr. Chandni Jain	4.33
26.	Effect of cochlear implantation and surgery technique on cervical vestibular evoked myogenic potential	Mr. Sachchidanand Sinha, Dr. Niraj Kumar Singh, Mr. Nirnay Kumar Keshree & Dr. Shenal Kothari	4.93
27.	Effect of noise and noise reduction technique on speaker identification	Dr. Hema N.	4.33
28.	Effect of spatial noise on speech identification	Dr. Asha Yathiraj	4.93
29.	Effectiveness of SNR-50 and SNR Loss in hearing aid evaluation	Dr. P Manjula & Dr. Megha	4.33
30.	Efficacy of developing skills through curricular activities among preschool children with hearing impairment at AIISH	Dr. Alok Kumar Upadhyay & Dr. Palnaty Vijetha	3.80
31.	Efficacy of self learning adapted social studies lessons in kannada and telugu and children with hearing impairment at secondary school level	Dr. Palnaty Vijetha, Dr. G Malar, Mr. Rajkumar R & Ms. Leelarani S.B.	3.25
32.	Evaluation of digital signal processing features in hearing aids with ear to ear synchronization	Dr. Geetha C. & Mr. Kishore Tanniru	4.03
33.	Executive functions in normal aging and persons with mild cognitive	Dr. Abhishek B.P. & Dr. R Rajasudhakar	4.98

	impairment		
34.	Exploring real world hearing aid usage and outcome: Current Indian scenario	Dr. P. Manjula	4.93
35.	Genetic insights of cerebral palsy using massively parallel sequencing	Dr. N. Sreedevi, Dr. N Swapna & Dr. Srinivas Kovalli	6.31
36.	Immediate effects of the straw phonation exercise on systematic hydration of vocal loading in carnatic classic singers	Dr. Santhosh M.& Dr. Usha Devadas	4.83
37.	Is acceptance noise level a deciding factor of tinnitus management using hearing aids?	Dr. Hemanth, N., Dr. Jijo. P.M. & Dr. Vijay Kumar Narne	4.03
38.	Lexical processing in type 2 diabetes	Dr. Rajasudhakar R	4.93
39.	Lexical semantic processing in persons with aphasia: correlational study of psycholinguistic and neurolinguistic measures	Mr. Abhishek B.P. & Dr. K.S Prema	4.03
40.	Nature of non-explicit declarative and procedural memory systems in pre-adolescents with specific language impairment: examining the post scripts of procedural deficit hypothesis	Dr. Kuppuraj S. & Dr. K.S Prema	4.03
41.	Neural correlates of perceptual learning of non-native speech sound contrast	Dr. Ajith Kumar U. & Dr. Santosh M	4.33
42.	Noise mapping of mysuru city with additional funding	Dr. Sreeraj K. & Ms. Suma Chatni	6.70
43.	Optimizing the response filter setting for acquisition of ocular vestibular evoked myogenic potential elicited by air-conduction tone bursts of 500Hz	Dr. Niraj Kumar Singh & Dr. Animesh Barman	4.03
44.	Phonological encoding in children with stuttering	Dr. Sangeetha Mahesh & Ms. M.P Geetha	4.93
45.	Relationship between behavioural measures and aided cortical potential responses in children with hearing impairment (6 months to 5 years)	Dr. Prawin Kumar& Dr. C Geetha	4.03
46.	Relationship between envelop difference index (EDI) and speech perception with noise reduction strategies in hearing aids	Dr. Geetha C. & Dr. Hemanth, N	4.33

47.	Relationship between hearing aid benefit and auditory processing abilities in elderly individuals with hearing impairment	Dr. Geetha C. & Dr. Chandni Jain	5.05
48.	Speech identification in the non-aided ear in monaural hearing aid users	Dr. Asha Yathiraj	4.93
49.	Standardization of linguistic profile test (LPT) in Tamil	Dr. T Jayakumar	4.88
50.	Status report of speech and hearing professionals graduated from AIISH - national and global scenario	Dr. S. Ramkumar & Dr. S.P Goswami	4.50
51.	TOLD-H: An adaptation of TOLD	Dr. Brajesh Priyadarshi & Dr. S.P Goswami	4.96
52.	Validation of feeding handicap index in children with intellectual disability and autism spectrum disorders	Dr. N. Swapna	4.03
53.	Validation of nasality severity index	Dr. Navya A. & Dr. Pushpavathi M.	4.93
54.	Within and across temporal resolution abilities in individuals with normal hearing, sensorineural hearing loss and auditory neuropathy spectrum disorders	Dr. Animesh Barman	4.33

Ongoing Projects

Fifty-two research projects worth **Rs. 447.94 lakhs** were ongoing in different departments of the Institute during the reporting year. Of these, six projects worth **Rs. 208.04 lakhs** were funded by extramural funding agencies and the remaining forty-six projects by the institute.

Extramural Research

1. Auditory processing and auditory cognitive measures in carriers of mutated genes that cause hearing loss. Investigators: Dr. Sandeep M. & Dr. Santhosh M. Funding: Department of Science and Technology. Amount: 53.23 lakhs.
2. Auditory and cognitive consequences of dys-synchronous auditory nerve activity. Investigators: Dr. Ajith Kumar U. & Dr. Sandeep M. Funding: Department of Science and Technology. Amount: 42.78 lakhs.
3. Efficacy of computer-based training module on auditory and cognitive skills in children with Central auditory processing disorder. Investigators: Dr.

Prawin Kumar & Dr. Niraj Kumar Singh. Funding: Department of Science and Technology. Amount: 28.49 lakhs.

4. FMRI & ERP evidence for improvement in Audio-Visual integration in individuals with ANSD post speech reading training. Investigators: Dr. K Rajalakshmi & Dr. Arun Kumar Gupta. Funding: Department of Science and Technology. Amount: 35.29 lakhs.
5. Neuroaudiological profiling of Children with Specific Language Impairment. Investigators: Dr. Animesh Barman, Dr. Swapna N. & Dr. Prashanth Prabhu. Funding: Department of Science and Technology. Amount: 43.50 lakhs.
6. Sense-Cog Asia: An open label feasibility study of a supportive hearing intervention in dementia. Investigators: Dr. Iracema Leroi, Dr. Nusrat Hussain, Dr. S.P Goswami, Dr. Murali Krishnan & Dr. Sandeep M. Funding: Global Challenges Research Fund (GCRF) of UK Research and Innovation. Amount: 4.75 lakhs.

AIISH Funded Research

Sl. No.	Topic	Investigators	Amount in lakhs
1.	Adaptation and validation of vocal fatigue index (VFI) in Kannada	Dr. R Rajasudhakar	4.33
2.	An exploratory study of tinnitus in Indian context	Dr. K Rajalakshmi, Mr. Vinaya K.C, Prof. David Baguly & Prof. Gerhard Andersson	4.03
3.	Auditory brain plasticity: in carnatic vocalists, instrumental musicians and non-musicians	Dr. K Rajalakshmi	4.03
4.	Auditory temporal processing in older adults: A behavioural and electrophysiological measures	Mr. Prashanth Prabhu	5.18
5.	Automatic quantification of the glottal area in the stroboscopic videos using deep neural network	Mr. Rahul Krishnamurthy, Dr. Prasanta Kumar Ghosh, Dr. Suja S & Dr. T.K Prakash	9.86
6.	Automation of Malayalam articulation test using automatic speech recognition techniques	Dr. Ajish K Abraham, Dr. Leena Mary & Dr. N. Sreedevi	5.00
7.	Behavioral and electro physiological correlates of lexical semantic activation in high and low proficient	Dr. Sandeep M., Dr. Abhishek B.P & Dr. Chandni Jain	4.88

	bilinguals		
8.	Behavioural and electrophysiological correlates for visual and auditory process in Alzheimer's diseases (P300)	Dr. Hema N. & Dr. Devi N.	4.88
9.	Behavioural and electrophysiological correlates (N400) of lexical access in bilingual adults with stuttering	Dr. Santosh M. & Dr. Abhishek B.P.	4.33
10.	Cochlear implant outcome measures: Comparison of rating scales and speech perception	Dr. Megha	5.05
11.	Cognitive linguistic intervention program for children at risk for learning disability	Dr. Jayashree C. Shanbal & Mr. Hariharan V.	4.93
12.	Communication based rehabilitation for persons with communication disorders in the foothill and rural areas of dindigul district, Tamil Nadu	Dr. Jayashree C. Shanbal, Mr. S. Ramkumar & Mr. Arunraj K.	9.25
13.	Computerized auditory training for Kannada speaking children with hearing impairment	Mr. Manohar N, Mrs. Revathi K.R., Mr. Prashanth Prabhu P. & Mr. Raghavendra G.N.	3.31
14.	Design and development of e-learning platform and faculty profile system	Dr. Shijith Kumar C., Dr. Manohar N. & Dr. Malar G.	4.68
15.	Design, development and validation of open source platform for AIISH digital repository and online public access catalogue	Dr. Shijith Kumar C., Mr. Nanjunda Swamy M., Mr. Nidheesh David Kuruvilla, Mr. Lokesh P. & Mr. Raghavendra G.N.	3.00
16.	Development and evaluation of indigenous curriculum oriented computer based tutor for concept learning in preschool children with special needs	Ms. P V Ramanakumari, Dr. Ajish K. Abraham & Ms. P.V Manjula	3.85
17.	Development and standardization of questionnaire to assess the outcome in adult hearing aid users	Dr. K. Rajalakshmi, Ms. Mamatha N.M & Dr. Ramadevi Sreenivas K.J	4.33
18.	Development and standardization of western aphasia battery in Tamil	Dr. Hema N	4.88
19.	Development and validation of a	Dr. Swapna N	7.88

	mobile application tool for airthmeticconcept teaching for preschoolers		
20.	Development of grade level assessment test in science for upper primary school children (VI-VIII)	Dr. Prithi Venkatesh	4.00
21.	Development of phonemically balanced word lists in Tamil language for adults	Dr. Geetha C. & Dr. Devi N.	4.88
22.	Development of some auditory related cognitive tests: assessment of cognitive reserve in individuals with older adults	Dr. Ajith Kumar U. & Dr. Hemanth N.	9.51
23.	Development of speech enabled communication tool for clients with speech impairment in Kannada	Mr. Manohar N	4.95
24.	Disability evaluation in mental retardation using WHODAS 2.0 in a clinical setting	Mr. Freddy Antony & Mr. Sanjeev Kumar Gupta	3.25
25.	Effect of combined tactile, thermal and gustatory stimulation on feeding and swallowing in children with cerebral palsy	Dr. N Swapna	4.93
26.	Effect of resource material on impact of inclusive education in children with intellectual disabilities (ID) and learning disabilities (LD)	Dr. G Malar & Ms. P. Prathima	3.85
27.	Electrophysiological assessment of auditory and vestibular neural functioning in individuals with diabetes mellitus	Dr. Prawin Kumar, Dr. M Bhanukumar, Dr. Niraj Kumar Singh, Mr. Vipin Ghosh & Dr. Kumari Apeksha	4.88
28.	Encoding of speech and music at auditory brainstem (frequency following response) with and without hearing aid	Dr. Devi N.	4.98
29.	Feasibility of standardized neuropsychological tests in assessment of patients with aphasia	Dr. Amrita Kanchan & Dr. Nawab A Khan	3.30
30.	Field-testing of 'Constant Therapy' in Hindi and Kannada	Dr. S.P Goswami & Dr. Swathi Kiran	4.93
31.	Impact of acoustic stimuli used for various measures of VEMP on the	Dr. Niraj Kumar Singh & Dr. Prawin Kumar	4.93

	auditory system		
32.	Implementation and validation of portable virtual acoustic spatial training (VAST) programme for remediation of spatial deficits in listeners with sensorineural hearing Impairment (SNHL): A longitudinal time - series study	Dr. Ajith Kumar U. & Dr. Nisha K.V	4.85
33.	Life satisfaction and quality of life in persons with aphasia beyond communication	Dr. S.P Goswami	4.96
34.	Morphosyntactic processing in dyslexia: application of an ERP measure	Dr. Jayashree C Shanbal, Ms. Mamatha N.M. & Gopi Shankar R	4.03
35.	Normative data for click rate induced facilitation for assessing temporal integration	Dr. K. Rajalakshmi & Mr. Prashasti P. Poovaiah	4.93
36.	Perception and production of prosody in children with hearing impairment	Dr. Yeshoda K & Dr. Sreeraj K	4.93
37.	Prevalence and risk factors for voice problems and effect of voice projection training in imans	Dr. Jayakumar T.	4.88
38.	Prevalence and risk factors of voice problems and knowledge of vocal health in professional carnatic singers and non-singers	Dr. Usha Devdas & Dr. M Santosh	4.93
39.	Product development of useful products of research carried out at AIISH	Dr. Prashanth Prabhu, Dr. Shijith Kumar C & Dr. Priya M.B	5.03
40.	Reading impairments in Kannada-English bilinguals individuals with fluent & non-fluent types of aphasia	Dr. Sunil Kumar Ravi, Dr. Pebbli Gopikishore & Dr. Shyamala K.C	5.08
41.	Relationship between auditory abilities and iron deficiency anemia in adolescent girls	Dr. Chandni Jain, Dr. Chetak K.B & Mr. Vipin Ghosh	5.33
42.	Short term correlations between speech motor variability and behavioural dysfluencies in persons with stuttering following fluency shaping therapy	Dr. Anjana B. Ram & Mr. Mahesh BVM	4.85
43.	Standardization of a discourse analysis scale for conversation,	Dr. Hema N. & Dr. K C Shyamala	4.03

	narration and picture description in kannada (DAS)		
44.	Stories of aphasia: exploring paths to recovery in India	Dr. S.P Goswami, Dr. Julie A Hengst, Ms. Sonal V Chitnis, Dr. Brajesh Priyadarshi, Dr. Neeraja Karathi & Ms. Pinky Singh	11.99
45.	Syntactic judgment abilities in persons with non fluent aphasia	Dr. Abhishek B.P. & Dr. K.C Shyamala	4.33
46.	The genetics of sensorineural hearing loss	Dr. K. Rajalakshmi, Dr. Srinivas K., Dr. Sreedevi N. & Dr. Jayakumar	9.68

New Research Projects

Six research projects worth **Rs. 160.60 lakhs** funded by extramural funding agencies were initiated during the reporting year.

Extramural Research

1. Acoustic and Perceptual analyses of speech in children with stuttering Pre and post therapy comparison. Investigator: Dr. Sangeetha Mahesh. Funding: Department of Science and Technology. Amount: 30 lakhs.
2. Cognitive Linguistic Abilities in Children with Cleft Lip and Palate: Phase II. Investigator: Dr. M. Pushpavathi. Funding: Department of Science and Technology. Amount: 19.87 lakhs.
3. Effect of Vestibular Impairment and Vestibular Rehabilitation Therapy on Cognition and Language Processing. Investigators: Dr. Niraj Kumar Singh, Dr. Prawin Kumar, Dr. Prakash T K, Dr. Brajesh Priyadarshi & Dr. Amritha Kanchan. Funding: Department of Science and Technology. Amount: 81.25 lakhs.
4. Effect of cognitive load on speech and voice characteristics across lifespan: A cross sectional study. Investigators: Dr. Jayakumar T. & Dr. K. Yeshoda. Department of Science and Technology. Amount: 28.62 lakhs.
5. Efficacy of articulation and prosody intervention program for children with hearing impairment using hearing aids. Investigators: Dr. N Sreedevi & Dr. Sangeetha Mahesh. Funding: SERB. Amount: 23.72 lakhs.

6. Scalable hearing rehabilitation for low and middle income countries (SHRLMIC). Investigators: Dr. Jhon Newall, Dr. S.P. Goswami & Dr. Geetha C. Funding: United Nations Global Partnership for Assistive Technology. Amount: 6.84 lakhs.

Doctoral Research

Totally, four students completed their doctoral research during the reporting year. In addition, 95 students were pursuing their doctoral research in different departments of the institute. The details of completed and ongoing doctoral research are given in table 1 and 2 respectively.

Table 1: Completed Doctoral Research

Candidate	Topic	Guide	Status
Degree Awarded			
Gayathri Krishnan	Effect of Bolus characteristics and head position on respiratory-swallow coordination	Dr. S.P Goswami	Awarded
Geethi S	Development of metapragmatic tool for adolescents in Malayalam and its validation on children with specific learning disorder	Dr. Shyamala K.C	Awarded
Niharika M K	Cognitive-linguistic processing in native adult speakers of Kannada	Dr. Prema K.S	Awarded
Yashaswini L	Categorical perception and processing of speech and music stimuli in individuals with and without music training	Dr. Sandeep M	Awarded

Table 2: Ongoing Doctoral Research

Sl. No.	Candidate	Category	Topic	Guide
Audiology				
1.	Anoop B.J	External	Cognitive and ERP measures of informational masking in young and elderly normal hearing individuals	Dr.Ajith Kumar U
2.	Anuprasad S	External	Auditory Processing and Auditory Working Memory in Children with Benign Epilepsy with Centrottemporal Spikes	Dr. K Rajalakshmi
3.	Arunraj K	In-service	Clinical Validation of	Dr. Animesh

			Wideband Absorbance Tympanometry in Detecting Middle Ear Disorders	Barman
4.	Bhalerao Sanket Satish	External	Yet to decide	Dr. Geetha C
5.	Darga Baba Fakruddin	In-service	Effect of Age, Hearing Loss Working Memory on Speech Recognition in Naive Hearing aid Users	Dr. K Rajalakshmi
6.	Deepashree S.R	External	Auditory brainstem responses and otoacoustic emissions in infants born to mothers with iron deficiency anaemia	Dr. Ajith Kumar U
7.	Dhananjay Rachana	External	Yet to decide	Dr. Devi N
8.	Dhanya M	External	Perceptual Cues of Coarticulation in Malayalam in Normal Hearing and Hearing Impaired Individuals	Dr. Sandeep M
9.	Gowri R	AIISH, JRF	Yet to decide	Dr. Sandeep M
10.	Husna Firdose	External	A relationship between Audiological characteristics and a few management options in individuals with auditory neuropathy spectrum disorders	Dr. Manjula P
11.	Indira C.P	DST, JRF	Hearing Help Seeking Behaviour in Parents of Children with Hearing Loss	Dr. Sandeep M
12.	Jawahar Antony P	In-service	Stream percept with sinusoidally amplitude modulated stimuli and its relation with speech perception in noise in individuals with normal hearing and sensorineural hearing loss	Dr. Animesh Barman
13.	Jim Saroj Winston	AIISH, JRF	Effect of Short-term musical training on psycho-acoustical, electrophysiological and working memory measures	Dr. Ajith Kumar U
14.	Kriti Arora	AIISH, JRF	Yet to decide	Dr. Sandeep

				M
15.	Krupa Saira George	AIISH, JRF	Effect of native and Non-Native Babble Background on Speech Identification of Individuals with Normal Hearing and Hearing Impairment	Dr. K Rajalakshmi
16.	Mamatha N.M	In-service	Effect of Auditory Processing abilities on Academic Performance in Kannada Speaking Primary School Children	Dr. Asha Yathiraj
17.	Meghana Mohan B	AIISH, JRF	Yet to decide	Dr. K Rajalakshmi
18.	Meghana N	AIISH, JRF	Yet to decide	Dr. Manjula P
19.	Merin Mathews	DST, JRF	Audio-visual Speech Perception in Individuals with ANSD: Effect of Audio-Visual Training Evidenced Through ERP and Behavioural Measures	Dr. K Rajalakshmi
20.	Nayana M	AIISH, JRF	Yet to decide	Dr. Prawin Kumar
21.	Pathak Mayur Balaji	External	Yet to decide	Dr. Chandni Jain
22.	Pavan M	External	Investigation of Mechanism Underlying Poor Speech Perception in Individual with Cochlear Hearing Loss Based on Recovered Envelope Cues and the Contribution of Temporal Fine Structure Cues in Sequential Segregation	Dr. K Rajalakshmi
23.	Prajna Bhat J	External	Brainstem Neurophysiological Correlates of Pitch Coding In Vocal and Instrumental Musicians	Dr. K Rajalakshmi
24.	Priyadharsini K	AIISH, JRF	Effect of Auditory training using Envelope Enhanced Speech on Speech Perception Abilities in Persons with Auditory Neuropathy Spectrum Disorder	Dr. Ajith Kumar U

25.	Priyanjali Harit	External	Yet to decide	Dr. Prawin Kumar
26.	Priyanka Jaisinghani	DST, JRF	Validation of Speech Enhancement and Noise Reduction Strategies in Individuals with Sensorineural Hearing Loss and Auditory Neuropathy Spectrum Disorders	Dr. Manjula P
27.	Rajesh Kumar R	AIISH, JRF	Yet to decide	Dr. Niraj Kumar Singh
28.	Rakesh Gatla	AIISH, JRF	Effect of Exposure to Below-Damage Risk Criteria Environmental Noise on Auditory Processing Abilities	Dr. Sandeep M
29.	Rashmi E	AIISH, JRF	Yet to decide	Dr. Devi N
30.	Reesha O.A	DST-JRF	Efficacy of computer-based auditory separation training in children with auditory processing disorders	Dr. Prawin Kumar
31.	S Sridhar	AIISH, JRF	Yet to decide	Dr. Devi N
32.	Sahana P	AIISH, JRF	Yet to decide	Dr. Manjula P
33.	Sahana V	AIISH, JRF	Auditory and cognitive profiling in normal hearing individuals with occupational noise exposure	Dr. Ajith Kumar U
34.	Shezeen Abdul Gafoor	AIISH, JRF	Yet to decide	Dr. Ajith Kumar U
35.	Shreyank P. Swamy	External	Comparison of Contralateral Suppression of Otoacoustic Emissions between Children with APD and Children with ADHD	Dr. Asha Yathiraj
36.	Shubha Tak	External	Loudness Perception in Children Using Hearing Aids and Children Using Cochlear Implants	Dr. Asha Yathiraj
37.	Shubhaganga D	AIISH, JRF	Influence of education, employment and gender on auditory processing and cognition in older adults	Dr. Asha Yathiraj
38.	Sreena E.N	AIISH, JRF	Preferred Compression Amplification Setting for	Dr. Manjula P

			Individuals with Varying Audiogram Configurations	
39.	Srikar V	External	Auditory continuity illusion and Perceptual restoration of speech in noise: Relationship with speech intelligibility in noise in individuals with normal hearing, and cochlear hearing loss	Dr. Animesh Barman
40.	Syeda Aisha	AIISH, JRF	Yet to decide	Dr. Chandni Jain
41.	Vignesh SS	External	Auditory vestibular functions in individuals with multiple sclerosis	Dr. K Rajalakshmi
42.	Vikas M.D	In-service	Effects of Temporal Resolution, Working Memory and Personality on Hearing Aid Benefit in Older Adults	Dr. Manjula P
43.	Vinayagar P.T	AIISH, JRF	Yet to decide	Dr. Sujeet Kumar Sinha

Speech-Language Pathology

1.	Akshaya S	External	Yet to decide	Dr. SP Goswami
2.	Ameena Subhakani S	AIISH, JRF	Yet to decide	Dr. Swapna N
3.	Amoolya G	External	Bilingual Effect on Written Language Skills in Kannada English Bilingual Biliterate Children With Learning Disability	Dr. Jayashree C Shanbal
4.	Anitha Naittee Abraham	External	Effect of vowel context and phoneme position on correct articulation of phonemes in Malayalam speaking children with Down syndrome: A pre post therapy comparison	Dr. N Sreedevi
5.	Aparna V.S	External	Speech and Language Outcomes in School Goging Children Following Early Primary Cleft Palate Repair	Dr. M Pushpavathi
6.	Bilvashree C	AIISH, JRF	Yet to decide	Dr. K

				Yeshoda
7.	Ceana Mariya Paul	AIISH, JRF	Yet to decide	Dr. K. Yeshoda
8.	Darshan H. S	AIISH, JRF	A Comparative Study on Statistical Learning Abilities in Persons with Aphasia and Neuro-typical Individuals	Dr. S P Goswami
9.	Deepak P	AIISH, JRF	Efficacy of Verb Network Strengthening Treatment in Persons with Aphasia	Dr. S P Goswami
10.	Deepthy Ann Joy	External	Acoustic and articulatory characteristics of Malayalam speaking children using Cochlear Implant	Dr. N Sreedevi
11.	Divya Seth	External	Efficacy of response cost treatment in preschool children who stutter	Dr. Santosh M
12.	Divyashree K.N.	AIISH, JRF	Yet to decide	Dr. N. Sreedevi
13.	Geetha M.P	External	Yet to decide	Dr. T. Jayakumar
14.	Girish K.S	DBT-JRF	Development of Norms for Nasospeech in Typically Developing Children	Dr. M Pushpavathi
15.	Jesnu Jose Benoy	AIISH,JRF	Yet to decide	Dr. T Jayakumar
16.	Jothi S	External	Yet to decide	Dr. Jayashree C Shanbal
17.	Jyothi S	External	Child-directed speech versus adult-directed speech: Comparison of acoustic measures between mothers of typically developing children and children with hearing impairment	Dr. Santosh M
18.	Kavya V	AIISH, JRF	Yet to decide	Dr. Swapna N
19.	Khyathi G Jain	External	Yet to decide	Dr. SP Goswami
20.	Lakshmipriya S.M	External	Yet to decide	Dr. Hema N
21.	M. Sonam Belliappa	AIISH,JRF	Use of Chin Tuck against Resistance and Neuromuscular Electrical Stimulation for Swallow Function in Parkinson's	Dr. S P Goswami

			Disease : A Comparative Study	
22.	Manasa A.S	External	Yet to decide	Dr. M Pushpavathi
23.	Manju S	External	Speech and language development in Malayalam speaking toddlers with repaired cleft lip and palate	Dr. M Pushpavathi
24.	Nagashreeya D	External	Yet to decide	Dr. SP Goswami
25.	Nikitha M	AIISH, JRF	Gesture Perception and Production abilities in Persons with Aphasia: A Comparative Study	Dr. S P Goswami
26.	Nirmal Sugathan	External	Comparison of Phonological Processing between Children who persist and recover from stuttering	Dr. Santosh M
27.	Pooja C	AIISH, JRF	Yet to decide	Dr. Hema N
28.	Priyanka	External	Cross-Linguistic Generalization of Fluency in Kannada-English Bilingual Adults who Stutter: Effect of Non-Programmed Prolonged Speech Treatment	Dr. Santosh M
29.	Rakesh C.V	AIISH, JRF	Efficacy of Prolonged Speech and Pause and Talk Techniques in School-Aged Children with Stuttering: A Comparison	Dr. Santosh M
30.	Ranjini G.C.	External	Derived Acoustic measures of Vowels in Kannada Speaking children with Cochlear implant	Dr. N. Sreedevi
31.	Ranjitha Kashyap B.N	AIISH, JRF	Yet to decide	Dr. T.Jayakumar
32.	Ranjitha R	External	Development and Standardization of a Test Battery to Evaluate Phonological Representations in Malayalam Speaking Preschool Children	Dr. N Sreedevi
33.	Reuben Thomas Varghese	External	Comparison of Early Cognitive - Communicative Deficits between Persons	Dr. S P Goswami

			with Dementia of Alzheimer's Type (DAT) and Mild Cognitive Impairment (MCI)	
34.	Revathi R	AIISH, JRF	Yet to decide	Dr. K Yeshoda
35.	Sahana Srinivasan	AIISH, JRF	Yet to decide	Dr. Swapna N
36.	Seema M	External	Yet to decide	Dr. N. Sreedevi
37.	Sneha Mareen Varghese	External	Graphophonological-Semantic Flexibility and Reading Comprehension in Children with Dyslexia	Dr. Jayashree C Shanbal
38.	Srushti Shabnam	External	Acoustic Voice Quality Index based dysphonia severity classification	Dr. M Pushpavathi
39.	Susan G Oommen	External	Effect of bilingualism on linguistic and executive functions in children with autism spectrum disorders	Dr. Shyamala K C
40.	Sushma Manjunath	AIISH, JRF	Development and Validation of Therapy Protocol for Compensatory Articulation in Children with repaired cleft lip and palate	Dr. M Pushpavathi
41.	Vasupradaa M	AIISH, JRF	Yet to decide	Dr. Santosh M
42.	Vineetha Sara Philip	AIISH, JRF	Symbolic language abilities for aided communication in persons with Aphasi	Dr. S P Goswami
43.	Yashaswini B C	AIISH, JRF	Yet to decide	Dr. Hema N
Linguistics				
1.	Eman Al Haider Moussabi	External	Yet to decide	Dr. Brajesh Priyadarshi
2.	Maisa' A Jamal Mahmoud Alshawawreh	External	The role of cognition and use of multimedia in vocabulary learning of Jordan intermediate school children	Dr. Hema N
3.	Mustafa Nafi Ahmed	External	Yet to decide	T. Jayakumar

	Alshawawre h			
Special Education				
1.	Devaraj N.B	External	Effectiveness of school readiness program on pre-school children with hard of hearing	Dr. Alok Kumar Upadhyay
2.	Dhivya D	External	Yet to decide	Dr. Alok Kumar Upadhyay
3.	Lakshmi Prabha J.K.	External	Yet to decide	Dr. Alok Kumar Upadhyay
4.	Omar Wajdy Aref Al-Rawashdeh	External	Yet to decide	Dr. Alok Kumar Upadhyay
5.	Nagarathnamma	External	Yet to decide	Dr. Alok Kumar Upadhyay
6.	Subramanya K.R	External	Yet to decide	Dr. Alok Kumar Upadhyay

Post Graduate Research

The postgraduate students of the institute carry out research as a part of their course work. The details of completed postgraduate research carried out as a part of M.Sc. Audiology and M.Sc. Speech-Language Pathology are given in table 3 and the ongoing research works in table 4.

Table 3: Completed postgraduate research

SL. No.	Candidate	Topic	Guide
Audiology			
1	Aishwarya G	Effect of prescriptive formulae and number of channels (simulated) on perception of music processed through Receiver In the Canal hearing aid	Dr. Prashanth Prabhu
2	Ajithkumar M	Correlation of threshold difference between pure tones, clicks and wideband evoked acoustic reflex	Dr. Devi N
3	Akhil Shrivastava	Measurement of Ocular tilt using Subjective	Dr. Sujeet

		visual vertical test in Individuals with Sensorineural Hearing loss	Kumar Sinha
4	Anagha A.P	Vestibulo - Ocular Reflex gain measurement using Head Impulse Paradigm and Suppression Head Impulse paradigm in younger and older adults	Dr. Sujeet Kumar Sinha
5	Aneena K	Estimation of vestibulo-ocular reflex gain using head impulse paradigm in individual with noise exposure	Dr.Prawin Kumar
6	Aparna Ravi	Bilateral simultaneous auditory brainstem response in individuals with sensorineural hearing loss	Dr. Sandeep M
7	Ashique C	Comparison of Differential sensitivity for Frequency, Intensity and Duration in individuals who practice physical activity and those who doesn't practice physical activity	Ms. Mamatha N.M
8	Augustina Noel Z	Speech identification through mobile phone, coupled to hearing aids, with and without wireless technology	Dr. Manjula P
9	Chethana P	Test-retest reliability of working memory span tasks: Operation span, Reading span and Auditory digit span.	Dr.Ajith Kumar U
10	Christy Sebastian	Effect of wide dynamic range compression on a few temporal characteristics and speech identification.	Dr. Manjula P
11	Divya Chauhan	Effect of physiological noise on speech perception in noise in normal hearing adults	Dr. Sandeep M
12	Gowtham Varma S	Cochlear microphonics: A comparison between scalp recording vs. Intracranial recording procedure using tone bursts and click	Dr. Animesh Barman
13	Hannah Thomas	Estimating safe stimulus level for 500 Hz tone burst evoked cervical and ocular vestibular evoked myogenic potential	Dr. Niraj Kumar Singh
14	Hemashree B.M	Evaluation of temporal processing abilities in individuals categorized based on body mass index.	Dr. Prashanth Prabhu
15	Kalaiyaran R	Evaluation of temporal resolution abilities and speech perception in noise in abstinent alcoholics and non-alcoholics	Dr. Devi N
16	KirubaharaneS.I	Multifrequency tympanometry in children with and without congenital sensorineural hearing loss.	Dr. Ajith Kumar U
17	Kristi Kaveri Dutta	Effect of stimulus intensity used for frequency tuning of cVEMP on hearing	Dr. Niraj Kumar Singh

18	Krupa Bai B	Relationship between extended High frequency Audiometry, distortion product otoacoustic emission and speech perception in noise in children with (C)APD.	Dr. Chandni Jain
19	Layamol T.P	Assessment of Hidden hearing loss in individuals exposed to noise using Tone Burst ABR and DPOAEs	Dr.Prawin Kumar
20	Madhumanti Chakraborty	Role of MOCB on threshold and supra threshold measures of speech perception in noise	Dr. Sandeep M
21	Manju Manikandan K	Influence of age, cognition and proficiency of the non-native background language on speech recognition of native language	Dr. Geetha C
22	Megha Nigam	Relationship between spectral resolution and speech perception in noise in children with central auditory processing disorder	Dr. Chandni Jain
23	Merina Thomas	Comparison of auditory working memory and speech perception in noise in children with and without chess training	Dr. K Rajalakshmi
24	Mohana Priya R	Amplitude modulation discrimination in individual with normal hearing sensitivity having tinnitus	Dr.Sreeraj K
25	Mohammed Basih Thaha T	Adaptation, Translation and Validation of Speech, Spatial and Qualities of Hearing Scale (SSQ) in Malayalam speaking older adults with hearing impairment.	Dr. K Rajalakshmi
26	Nivedharao Nagarajan	Auditory differential sensitivity for frequency, intensity, duration in abstinent alcoholic	Dr. Devi N
27	Prajwal Kumar E	Effect of click, tone burst frequency, polarity and rate of stimulus on cochlear microphonics in individuals with normal hearing sensitivity.	Prof. Animesh Barman
28	Rajwinder Kaur	Adaptation, Translation and Validation of Parents Evaluation of oral/aural performance of children (PEACH) and Teachers' Evaluation of oral/aural performance of children (TEACH)	Dr. Geetha C
29	Rakesh T Kumar	Comparison of auditory working memory in adults with congenital blindness and normal sighted individuals	Dr.Sreeraj K
30	Ranjini A	Influence of Music Training on the Age Related Decline in Spatial Hearing and Temporal Processing Ability	Dr.Sreeraj K
31	Ravinder Thakur	Cervical and Ocular vestibular evoked myogenic potentials in smokers	Ms. Mamatha N.M

32	Rohith V.S	The Relationship between Auditory working memory and speech perception in noise in primary school children with and without abacus training.	Dr. K Rajalakshmi
33	Sachin B	Effect of smoking on high frequency Distortion Product Otoacoustic Emissions	Ms. Mamatha N.M
34	Sarga K	Effectiveness of Subjective Visual Vertical and Video Head Impulse Test in assessment of Vestibular function in individuals with Mixed Hearing Los	Dr. Sujeet Kumar Sinha
35	Shreyas S Ram	Prevalence of individuals diagnosed to have CAPD for a period of two years at AIISH (June 2017 to July 2019	Dr. Chandni Jain
36	Srividya S	Sentence identification in presence of speech and music masker among musicians and non-musicians	Dr. Ajith Kumar U
37	Sushma C	Comparison of subjective benefit of directional microphone in high cost and low cost digital hearing aids in noise	Dr. Geetha C
38	Swati Goyal	Effect of age and gender on auditory stream segregation in adults with normal hearing sensitivity	Dr. Prashanth Prabhu
39	Tanuja M.N	Comparison between auditory working memory, temporal resolution, and auditory closure in individuals with type 2 diabetes mellitus.	Dr.Prawin Kumar
Speech Language Pathology			
40	Akshaya Krishnan	Self-harm in persons with aphasia and their caregivers	Dr. Goswami, S. P.
41	Anju, R.	Empirical observation on grammatical and lexical development by story re-telling task in primary school children	Dr.Venkateshan, S.
42	Ankitha, S.	Non-word repetition skills in adults who stutter	Dr.Sangeetha, M
43	Anuroopa, K.S.	Vocal fatigue in professional theatre artists as quantified by vocal fatigue index-version 2	Dr.Yeshoda, K.
44	Apoorva Pant	Phonological encoding abilities in the second language (L2) among bilingual adults who stutter	Dr. Sangeetha, M.
45	Archana, U.	Assistive Stuttering Interface-Adults	Dr. Anjana B. Ram
46	Binusha, S.	Comparison of Madhyasthayi and Tharasthayi between Carnatic classical	Dr. Santosh, M.

		singers with and without vocal fatigue	
47	Delna Dominic	A comparative study on the effect of animated and static pictures on the naming abilities in children with hearing loss	Dr. Ajish K. Abraham
48	Devi Vijayalakshmi	Immediate and long term effects of lip-trill exercise on voice parameters in phononormic individuals	Dr.Rajasudhakar, R.
49	Dibya Aryal	Effect of phonological and morphological factors on speech disfluencies in Nepali speaking adults who stutter	Dr.Santosh, M.
50	Fathima Nida	Socio-cultural adaptation of unhelpful thoughts and beliefs about stuttering scales in Kannada	Dr.Santosh, M.
51	Hima Bindhu, V.K.B.	Phonological encoding abilities in first language of Kannada-English bilingual adults who stutter	Dr. Sangeetha, M.
52	Hina Fathima Fazal Khan	Development of linguistic profile test for Urdu speaking children in the age range of 6-16 years- an adaptation	Dr. Jayashree C.Shanbal
53	Jasper Princess. V	Working memory assessment in healthy elderly individuals with different educational background using distinct (semback) linguistic processing ability	Dr. Hema, N.
54	KrantiAcharya	Acoustic characteristics of vowels in children with cochlear implants in Nepali	Dr.Sreedevi, N.
55	Mohammed Nadeer Musthafa	Disability in person with total laryngectomy: a WHODAS 2.0 perspective	Dr. Freddy Antony
56	Monika Tetwal	Quality of Life in Parents of children with Autism Spectrum Disorders in Indian context	Dr. Jayashree C Shanbal
57	Nayana Karat	Acoustic voice quality index (AVQI) in Carnatic singers	Dr. Jayakumar, T.
58	Nayanika Ghosh	Prolonged effect of SOVT on phononormals: straw phonation technique	Dr.Yeshoda, K.
59	Neeraja Sunil	Taste Perception in Individuals with Diabetes Mellitus Type II	Dr. Swapna, N.
60	Neha Yadav	Development of Hindi language test for children in the age range of 3 to 6 years-an adaption	Dr. Jayashree C.Shanbal
61	Parnika, M.	Assistive Stuttering Interface-Children	Dr. Anjana B. Ram
62	Pauline Gracia	Acoustic voice quality index (AVQI) in hindustani singers	Dr.Jayakumar, T.
63	Prasanna, S.	Neurophysiological assessment (ERP-p300) of individuals with broca's aphasia: pre-therapy period	Dr. Hema, N

64	Reshma, O.	Relationship between nasalance and acoustic voice quality index (AVQI)	Dr.Jayakumar, T.
65	Riddhi Wadhwa	Syntactic working memory in person with aphasia	Dr.Goswami, S. P.
66	RishishaLyngkhoi	Comparison of vowel space in two dialects of Khasi	Dr.Sreedevi, N.
67	Roja Rani	Effect of effortful swallow training on lingual-labial strength and endurance and swallowing capacity in typical young adults	Dr. Swapna, N.
68	Sabin Sharma Duwadi	Ultrasound Study of the Retroflex Plosives of Nepali Language	Dr.Yeshoda, K.
69	Sarah Elsa Abraham	Scale for assessment of screen time exposure (SASTE) in typically developing children	Dr.Venkateshan, S.
70	Sashirekha, N.	Body mass index and voice parameters in indian females: a correlational study	Dr.Rajasudhakar, R.
71	Sivaranjani, P.	Cognitive flexibility in high school children with and without learning disability	Dr.Venkatesan, S.
72	Sreerenthu S. Vishwan	Neurophysiological assessment (P300) of individuals with aphasia at pre-therapy and post-therapy	Dr.Hema, N.
73	Sudharsana, S.	Temporal characteristics of speech in children with speech sound disorder	Dr.Sreedevi, N.
74	Sundaeswari Pon	Acquisition and retention of nonwords in adults with and without stuttering	Dr. Swapna, N.
75	SwaliahaShahama	Adaption and validation of the prospective and retrospective memory questionnaire to Malyalam	Dr. Goswami, S. P.
76	Sweekriti	Variability in stuttering across tasks and its relationship with social anxiety	Dr. Freddy Antony
77	Syeda Sameera Taj	Voice characteristics of Uluma	Dr.Rajasudhakar, R.

Table 4: Ongoing Postgraduate Research

SL. No.	Candidate	Topic	Guide
Audiology			
1	Aashish Sharma	Listening habits of young adults during lockdown: A survey	Dr. Geetha C
2	Abhishek Umashankar	The light cupula phenomenon: A systemic review	Dr. Animesh Barman
3	Adithya S.S	Canalith repositioning maneuvers for treatment of Posterior semicircular canal: A Systematic review	Dr. Niraj Kumar Singh

4	Aiza Fatima Raza	Indicators for cochlear implantation in individuals with auditory neuropathy spectrum disorders: A systematic review.	Dr. Prashanth Prabhu P.
5	Aman Kumar	Prevalence and characteristics of hearing loss in older adults registered at AIISH.	Ms. Mamatha N.M.
6	Anju Sara Eby	A survey on awareness about various audiological conditions in students and their classroom management amongst teachers in Kerala	Dr. Chandni Jain
7	Ankit Kumar Lohani	A tutorial on vestibular evoked myogenic potential	Dr. Sujeet Kumar Sinha
8	Anshuman Yadav	Speech perception outcomes using bone conduction implants: Systematic review	Dr. Prawin Kumar
9	Apoorva Prathibha K.S	Longitudinal study on audiological and language outcomes in children using hearing aids: A comparative study of ANSD and SNHI	Dr. Nisha K.V Co- Guide: Dr. Ajith Kumar U
10	Ariya Jayan	Speech perception outcomes in children using Auditory Brainstem Implants: Systematic review	Dr. Prawin Kumar
11	Arsiwala Tasneem M	Cortical auditory evoked potentials as performance indicators in cochlear implant: A systematic review	Dr. Geetha C
12	Atul P.R	Sudden sensorineural hearing loss- Literature review	Dr. Rajalakshmi K
13	Bhagyashree Ishwar H	Trend analysis of Hearing aids dispensed under HDDU scheme at AIISH	Dr. Sandeep M
14	Chethan K	Auditory brainstem responses in acoustic neuroma - A systematic review	Dr. Ajith Kumar U
15	Chitra. K	Systematic review of music perception in children with cochlear implant	Dr. Devi N
16	Dilli Raj Paudel	Prevalence and characteristics of congenital hearing loss in children: A register based study.	Ms. Mamatha N.M.
17	Dyuthi B	Prevalence, audiological characteristics and management of individuals diagnosed with ANSD for a period of one year at AIISH (January 2019 to December 2019)	Dr. Chandni Jain
18	Freddy Jose	Prevalence and characteristics of tinnitus in individuals with normal hearing.	Ms. Mamatha N.M.
19	Hasla Hamza Valiyadan	A systemic review on effectiveness of early cochlear implantation on speech perception and quality of life	Dr. Chandni Jain
20	Jjiniu.P.S	Utility of video head impulse test in Meniere's Disease: A systematic review.	Dr. Sujeet Kumar Sinha
21	Kajol N	Effectiveness of online teaching in training	Dr. Sandeep M

		prospective speech-language pathologists and Audiologists	
22	Kruthika S	Evidence of synaptopathy in individuals with tinnitus: A systematic review.	Dr. Prashanth Prabhu P
23	Meena Rao	Noise induced hearing loss: Clinical presentation	Dr. Sreeraj K
24	Mridul Pratik Khakha	Listening to music with hearing aids - A systematic review	Dr. Manjula P
25	Muthu Kartick L	Application of ICF framework for noise induced hearing loss	Dr. Sreeraj K Co- Guide: Dr. Nisha K.V
26	Namitha Jain	Prevalence of Auditory hallucinations in individuals with hearing impairment	Dr. Sreeraj K
27	Prabuddha Bhatara	Speech perception outcomes in children using cochlear implants: Systematic review	Dr. Prawin Kumar
28	Prakruthi M.K	Auditory training strategies for auditory processing disorder: A review	Dr. Devi N
29	Prateek L	Audiological profiling and voice characteristics in congenital and late onset auditory neuropathy spectrum disorder	Dr. Nisha K.V Co- Guide: Dr. Prashanth Prabhu P
30	Praveen Prakash	Audiologic management of auditory neuropathy spectrum disorder in children - A systematic review of the Literature	Dr. Rajalakshmi K
31	Rachna Hanji	Profiling listening needs of individuals with hearing impairment	Dr. Manjula P
32	Sahana T.S	Prevalence and causes of hearing loss in Mysore district- A retrospective study	Dr. Rajalakshmi K
33	Saranya Arya Mundayoor	Role of temporal cues in speech perception - A Systematic Review	Dr. Ajith Kumar U
34	Shejal Kasera	Canalith repositioning maneuvers for treatment of Lateral semicircular canal: A Systematic review	Dr. Niraj Kumar Singh
35	Shingi Dipti Santoshk	Online Survey of hearing help-seeking behaviour in parents of children with hearing loss	Dr. Sandeep M
36	Shradha Manandhar	A tutorial on repositioning maneuvers for benign paroxysmal positional vertigo	Dr. Sujeet Kumar Sinha
37	Sunny Khurana	A retrospective study on clinical test battery for persons with normal hearing with tinnitus; bridging the gap from research to clinical practice	Dr. Animesh Barman
38	Suryakant Yadav	ABR findings in hidden hearing loss: A systemic review	Dr. Animesh Barman
39	Vidya Gowda S.L	Attitude and knowledge of teachers on	Dr. Devi N

		education for children with hearing impairment: A systematic review	
40	Zohra Nafees Ghori	Development of quality of life questionnaire for children using hearing devices in English and Kannada	Dr. Geetha C
Speech Language Pathology			
41	Akshit Anand	Development of a questionnaire to assess psychosocial issues in professional voice users	Mr. Freddy Antony Co-Guide: Yeshoda, K.
42	Amritha Varshini, S.	Public education material for professional voice users- teachers, singers, and radio jockey	Dr. Jayakumar, T.
43	Anima Goyal	Development of a minimal pair manual in Hindi for the intervention of children with speech sound disorders	Dr. Sreedevi, N.
44	AshiyathAnshaba, P.	Development of activity resource manual for group therapy in children who stutter	Dr. Sangeetha, M.
45	Architaa, R.S.	Analysis of scholarly communication on voice: a scientometric study	Dr. Rajasudhakar, R.
46	Ashitha Paul, K.	Manual for training pragmatic language skills through social stories	Dr. Jayashree C. Shanbal
47	Ashiya Shaima	Perspectives of students in tele-service delivery in speech-language pathology	Dr. Rajasudhakar, R.
48	Bandhan Kumar Pradhan	Use of technology in the treatment of aphasia: a systematic review	Mr. N. Manohar Co-Guide: Dr. Anjana. B. Ram
49	Biraj Bhattarai	Derived measures of vowel acoustics in children: a systematic review	Dr. Sreedevi, N.
50	Ashritha M. Hegde	Development of theory of mind activities for individuals with right hemisphere damage/traumatic brain injury- a virtual training manual	Dr. Hema, N.
51	Christabale Jane	Effect of phonological and morphological factors on the frequency of stuttering in children who stutter - a systematic review	Dr. Santosh, M.
52	Gayathri	Home training program for children with cleft lip and palate	Dr. Pushpavathi, M.
53	Jeevan, R. S.	A preliminary study to develop an android based application for intonation training in children with hearing impairment	Dr. Reuben T. Varghese Co-Guide: Sreedevi, N.
54	Joanna, K. B.	Computerized Manual for training Syntax in children.	Dr. Jayashree C. Shanbal

55	Joel Joseph	Clinical tutorial on cluttering for speech-language pathologists	Dr. Sangeetha, M.
56	Kapasi Arva Shabbirbhai	Development of a manual in Gujarati for the intervention of children with speech sound disorders using minimal pairs	Dr. Sreedevi, N.
57	Kavitha, J.	Development of cognitive linguistic intervention manual in kannada for persons with dementia: an adaptation of CLIM- Malayalam	Dr. Goswami, S. P.
58	Keneitsolo-U Koza	Acoustic analysis of lexical tone in two Naga languages	Dr. Santosh, M.
59	Kusuma, M.	Development of a resource manual in Kannada for training phonotactic structure in children with apraxia of speech	Dr. Swapna, N.
60	Madhusudhan, B. M	Assessment of voice characteristics through virtual mode	Dr. Ajish K. Abraham Co-Guide: Dr. Jayakumar, T.
61	Mallika Nikita Lewis	Knowledge and use of visual supports among Speech-Language Pathologists for children with Autism Spectrum Disorder	Dr. Anjana B. Ram
62	Mansi Karnad	School administrators' understanding of the rights of children with disabilities and their readiness for inclusion - Indian survey	Dr. Anjana B. Ram
63	Mohamed Abuthalha, M.	An objective method of quantifying vocal breathiness in normal and simulated conditions- a preliminary study	Dr. Yeshoda, K.
64	Niranjana, P.	Exploration of vocal fatigue in trained carnatic singers using vocal fatigue index-version 2 (VFI-2)	Dr. Yeshoda, K.
65	Patel Siddhi Deepak	Development of a manual for syntactic processing activities for persons with aphasia	Dr. Hema, N.
66	Pradyumna, M.	Awareness and perception of developmental milestones of children upto 3 years of age among parents in urban setup	Dr. Jayashree C. Shanbal
67	Priyanka, N.	Development of multi-media manual for school teachers on voice and its disorders	Dr. Reuben T. Varghese Co-Guide: Dr. Rajasudhakar, R.
68	Rini, K. R.	Development of vocal education material for individuals with puberphonia	Dr. Jayakumar, T.
69	Rushali Hemantkumar	Development of cognitive linguistic intervention manual in hindi for persons	Dr. Goswami, S. P.

	Thakar	with dementia: An adaptation of CLIM-Malayalam	
70	ShinsiBinth, E. K.	Clinical tutorial on neurogenic stuttering for speech-language pathologists	Dr. Sangeetha, M.
71	Sri Ranjani, V.	Acoustic voice quality index in young phononormals using SOVT- frication exercise: Comparison of pre-post training	Dr. Yeshoda, K.
72	Sumathi, N.	Development of tasks and activities for cognitive training of adults with cognitive impairments	Dr. Venkatesan, S. Co-Guide: Dr. Hema, N.
73	Syam Krishna, V.	Characteristics of clients voice disorders at AIISH: An ex post facto study	Dr. Rajasudhakar, R.
74	Tanvi Rajesh Sanghavi	Assessment of pharyngeal dysphagia through fiberoptic endoscopic evaluation of swallowing: A tutorial	Dr. Swapna, N.
75	Thanuja, M.	Self-rated and clinician-rated parameters of speech effort in stuttering	Dr. Anjana B. Ram
76	Thirumanjari, K.	Development of manual for visuo-spatial organization activities for persons with brain damage	Dr. Hema, N.
77	Veda, P.	Development and validation of an online technique for Assessment of stuttering in Kannada speaking adults	Dr. Ajish K. Abraham Co-Guide: Dr. Sangeetha, M.
78	Vijayeshwari, S.	Effect of phonological and morphological factors on the frequency of stuttering in adults who stutter - A systematic review	Dr. Santosh, M.
79	Vyshna Babu, T.	Development of vocal education material for older adults in Malayalam	Dr. Jayakumar, T.
80	Yaazhini, O. D.	Development of treatment manual for oral dysphagia	Dr. Swapna, N.
81	Zainab Ismail	Development of cognitive linguistic intervention manual in english for persons with dementia: An adaptation of CLIM- Malayalam	Dr. Goswami, S. P.

Scientific Presentations

The faculty, staff and students of the Institute presented the following papers in scientific conferences and seminars during the reporting year.

1. Amulya P. Rao, Prathima, S. & Sreedevi, N. (2021). *Frequency of consonant production errors in children with speech sound disorder: A retrospective-descriptive study*. Paper presented at the 3rd International Conference of Speech and Hearing Association of India, West Bengal branch (SHAIWBCON), Kolkata.

2. Chandni Jain, Devi, N., Jyothi, S. & Divya Mary Jose (2021). *Parent's satisfaction on tele-listening training for children with hearing impairment during COVID-19*. Paper presented at the 3rd International Conference of Speech and Hearing Association of India, West Bengal branch (SHAIWBCON), Kolkata.
3. Devaraju, D. S., Kumar, U.A. & Maruthy, S. (2021). *Altered neural mechanisms during audio-visual perception in adults who stutter*. Paper presented at the 12th Oxford Dysfluency Conference (Online).
4. Geetha, C., Chandni Jain & Keerthi, S.P. (2021). *Relationship between auditory processing abilities and aided speech perception in noise in elders*. Paper presented at the 3rd International Conference of Speech and Hearing Association of India, West Bengal branch (SHAIWBCON), Kolkata.
5. Kavya, V., Swapna, N., Mekhala, V. G., Prabhu, P., & Barman, A. (2021). *Profiling the linguistic patterns in children with specific language impairment*. Poster Presented at the 3rd Convention of Speech and Hearing Association of India, West Bengal Branch (SHAIWBCON), Kolkata.
6. Kavya, V., Swapna, N., Mekhala, V. G., Prabhu, P. & Barman, A. (2021). *Oral and verbal praxis in impaired language learners*. Paper presented at the 3rd International Conference of Speech and Hearing Association of India West Bengal Branch (SHAIWBCON), Kolkata.
7. Murthy, Kavya S. & Shanbal, Jayshree C. (2020). *Tele-Orientation and awareness on communication disorders during COVID 19: Innovative methods to reach the unreached*. Paper presented at the India International Science Festival (IISF) (Online).
8. Ranjini, V., Rushali, T., Prashanth, P.P., Abhishek, B.P.& Pushpavathi, M. (2021). *Utilization of social media as a tool to create awareness about communication disorders: A content analysis*. Paper presented at the 3rd International Conference of Speech and Hearing Association of India West Bengal Branch (SHAIWBCON), Kolkata.
9. Rushali Thakar, & Prathima, S. (2021). *Speech-language and swallowing abilities in lance-adams syndrome: A case report*. Paper presented at the 3rd International Conference of Speech and Hearing Association of India West Bengal Branch (SHAIWBCON), Kolkata.
10. Sangeetha, M., Jyothi, R., & Anu, P. (2021). *Effect of word class on disfluencies of monolingual and bilingual school-age children who stutter*. Paper presented at the 3rd International Conference of Speech and Hearing Association of India, West Bengal branch (SHAIWBCON), Kolkata.

11. Shalini, M. & Shanbal, Jayshree C. (2020). *Innovative technology for tele-speech therapy during COVID-19: A single case study of a person with aphasia*. Paper presented at the India International Science Festival (IISF) (Online).
12. Srikar, Malavi & Shanbal, Jayshree C. (2020). *Innovative technology for online speech therapy during COVID-19: A single case study of a child with rhotacism in a multilingual context*. Paper presented at the India International Science Festival (Online).
13. Srushti S, Pushpavathi, M and Gopi Sankar, R. (2021). *Diagnostic accuracy of acoustic voice quality index v.02.03 to discriminate across the auditory perceptual based voice severity*. Paper presented at the 3rd International Conference of Speech and Hearing Association of India, West Bengal branch, Kolkata.
14. Sushma Manjunath and Pushpavathi, M. (2020). *Acoustic analysis of glottal stops in children with cleft lip and palate: a preliminary study*. Poster presentation for ASHA conference, USA.
15. Sushma, M. & Pushpavathi, M. (2021). *Impact of articulation therapy on perceptual characteristics of bilabial in children with repaired cleft lip and palate*. Paper presented at the 3rd International Conference of Speech and Hearing Association of India, West Bengal branch (SHAIWBCON), Kolkata.
16. Thanuja, D. & Shanbal, Jayshree C.(2020). *Innovative technology for tele-rehabilitation during COVID-19: A single case study of a child with speech sound disorder*. Paper presented at the India International Science Festival (IISF) (Online).
17. Veerabhadrappe, R. C., Vanryckeghem, M. & Maruthy, S. (2021). *Adaptation and validation of the speech situation checklist - emotional reaction (SSC-ER) for Kannada-speaking school-age children who do and do not stutter*. Paper presented at the 12th Oxford Dysfluency Conference (Online).
18. Veerabhadrappe, R.C. & Maruthy, S. (2021). *Efficacy of prolonged speech and pause and talk techniques in school-aged children who stutter: A comparison*. Paper presented at the 12th Oxford Dysfluency Conference (Online).
19. Vijetha, Palnaty (2021). *Teachers' knowledge about hearing impairment and referral services in Ooty, Tamil Nadu*. Paper presented at the National Conference on Teacher Education in the 21st Century: Vision and Action, Regional Institute of Education, NCERT, Bhopal.

Seminar/Conference Proceedings

The following scientific papers of the papers faculty, staff and students of the Institute were published in the seminars / conference proceedings.

1. Abraham, Ajish K., Pushpavathi, M., Sreedevi, N., Navya, A.& Prasanna, S. R. M. (2020). Spectral moment and duration of burst of plosives in speech of children with hearing impairment and typically developing children – a comparative study. *Proc. Interspeech 2020* (pp.4981-4985). DOI: 10.21437/Interspeech.2020-1805.
2. Abraham, Ajish K., Pushpavathi, M., Sreedevi, N. & Navya, A. (2019). Exploring acoustic measures of vowels (VSA, FCR3 VAI4, VFR) in children with hearing impairment. In Calhoun, Sasha, Paola, Escudero Marja Tavain & Warren, Paul (Eds.), *Proceedings of the 19th International Congress of Phonetic Sciences*, (pp. 1064-1068). Melbourne, Australia.
3. Nandeesha, B. (2021). Emerging trends in library services. In Rathinasabapathy, G., Veeranjanyulu, K. & Srinivas, V. (Eds.) *International Conference Proceedings on Agriculture Librarians and User Community (ICALUC-2021) on Management of Knowledge Resource Centres in the Networked Digital Environment: Trends, Challenges and Opportunities* (pp. 211-217). University of Agriculture Sciences, GKVK, Bangalore.
4. Pushpavathi M., Abraham A. K., Mahadeva Prasanna S. R., Girish, K. S. (2021) Perceptual judgments of resonance, speech understandability, and speech acceptability in children with repaired cleft palate across words and sentences. In: Singh M., Rafat Y. (Eds) *Recent Developments in Acoustics. Select Proceedings of the 46th National Symposium on Acoustics*. (pp. 75-83). Springer, Singapore. https://doi.org/10.1007/978-981-15-5776-7_7.
5. Pushpavathi M., Kavya V., Akshatha V. (2020) Impact of timing of surgery on the development of speech in toddlers with repaired cleft lip and palate. In: Singh M., Rafat Y. (Eds) *Recent Developments in Acoustics. Select Proceedings of the 46th National Symposium on Acoustics*. Springer, Singapore. https://doi.org/10.1007/978-981-15-5776-7_10

Scientific Publications

The faculty, staff and students of the Institute published the following papers in scientific journals during the reporting year.

1. Abraham, A.K. & Ravishankar, M.S. (2020). A case study of acoustic intervention in classrooms. *Building Acoustics*. <https://doi.org/10.1177/1351010X20975765>.
2. Antony, P.J. & Barman, A. (2020). Effect of sinusoidally amplitude modulated broadband noise stimuli on stream segregation in individuals with sensorineural hearing loss. *Auditory Vestibular Research*. 29 (4), 209-219.
3. Anuprasad, S., Krishna, R., Pradeep, P.N., Ananthanarayan, K., Arun. (2021). Evaluation of auditory spectral resolution abilities in children with benign epilepsy with centrotemporal spikes using spectral temporally modulated ripple test. *Epilepsy & Behavior*, 114, <https://doi.org/10.1016/j.yebeh.2020.107620>.
4. Aparna, V. S., Pushpavathi, M. & Krishnamurthy, B. (2020). Language skills and cognitive linguistic skills in children with repaired cleft palate. *International Journal of Health Science and Research*, 10 (3), 32-38.
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18. Dhivya, D. & Upadhyay, A.K. (2020). Use of computer assisted instruction in developing memory skill for preschool children with hearing impairment. *Journal of Disability Management and Rehabilitation*, 6 (1), 10-16.
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sensitivity: a comparison of different measures. *Journal of All India Institute of Speech and Hearing*, 38, 47-57.

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Books / Book Chapters

The faculty, staff and students of the Institute published the following books and book chapters during the reporting year.

1. Anjana, A.V. & Sreedevi, N. (2020). Articulatory and phonological disorders. In Shirley, G., Suja K Kunnath, Vinitha Mary George & Anne Varghese (Eds.), *Communication Disorders: Illustrated in ICF Framework*, National Institute of Speech and Hearing, Thiruvananthapuram.
2. Bhoomika, G., Nisha, K.V. (2020). Effects of musical training on auditory spatial processing abilities: a psychoacoustical and perceptual study, In Anupam Biswas (Eds.et al.) *Advances in Intelligent System and Computing*: Vol. 1320. (pp. 978-981).
3. Goswami, S.P., Shivashankar, N. & Arya, S. (2020). Neurogenic language disorders in adults. In Shirley, G., S.K. Kunnath, V. M. George and A. Varghese (Eds.), *Communication Disorders, Illustrated in ICF Framework*. National Institute of Speech and Hearing.
4. Gupta, S.K. (2020). *Telerehabilitation in communication disorders and mental health*. Sage.
5. Manju, S, Deepthi, K.J. & Pushpavathi, M. (2020). Cleft lip and palate and other craniofacial disorders. In Shirley, G., S. K. Kunnath, V. M. George and A. Varghese (Eds.), *Communication Disorders: Illustrated in ICF Framework*. (pp. 91-139) National Institute of Speech and Hearing, Thiruvananthapuram.
6. Nandeesha, B. (2020). Country-wise study of speech and hearing literature based on Scimago database. In Pramanathan, U., Kavitha, R., Stephen, G. & Selvam, M. (Eds.), *Handbook of metric studies for library and information science scholars* (pp. 47-53). SK Research Group of Companies Publication.
7. Nandeesha, B. (2020). Google scholar: An overview. In Ramasamy, K. & Mani, M. (Eds.), *Google era librarianship: tools, technologies and skills* (pp. 111-119). Muthra Publishers.
8. Nandeesha, B. (2021). Opportunities and implementation of big data management in academic libraries: strategic approach and discovering a solution. In Sangeeta Namdev Dhamdhare (Ed.), *Big data applications for improving library services* (pp. 34-47). IGI Global. 10.4018/978-1-7998-3049-8.
9. Nisha, K.V. & Shetty, H. (2020). Fitting hearing aids to single-sided deafness. In Shetty, H., & Namz Aqq aqabi, A. (Eds). *Clinical aspects of Hearing Aid, ISHA Monograph* (pp. 147-159).

10. Priyadarshi B., Goswami, S.P. & Jaghacharan, K. (2020). Lexical fast mapping competency in children with specific language impairment. In T.Khan, *Trends in Applied Linguistics and Language in use*. Mysuru: Central Institute of Indian Languages and Linguistic Society of India. 27-34.
11. Swapna, N. (2020). Apraxia of speech, in communication disorders; illustrated in ICF perspective. In Shirley, G., S. K. Kunnath, V. M. George and A. Varghese (Eds.), *Motor Speech Disorders in Children*. National Institute of Speech and Hearing.
12. Veerabhadrapa, R. C., & Maruthy, S. (2021). Telerehabilitation in stuttering. In, S. K. Gupta (Ed.). *Telerehabilitation in Communication Disorders and Mental Health* (1st ed., pp.75-103). SAGE Publications India Pvt Limited.
13. Venkatesan, S. (2020). Covid-19 the Pandemic and people with intellectual and developmental disabilities. In L. S. S. Manickam. (Ed.), *Covid-19 Pandemic: Challenges and responses of psychologists from India* (pp. 80-93). Center for Applied Psychological Studies, Thiruvananthapuram.
14. Venkatesan, S. (2020). *Toys and play in children*. Akinik Publications.
15. Yashomathi, S. & Gayathri, K. (2020). Augmentative and alternative communication systems for children with cerebral palsy. In Tanu Wadhera & Deepti Kakkar (Eds.), *Interdisciplinary Approaches to Altering Neurodevelopmental Disorders* (pp. 63-86). IGI Global. DOI: 10.4018/978-1-7998-3069-6.ch005.
16. Yashomathi, S. (2020). Aided Augmentative and alternative communication (AAC) systems for individuals with autism spectrum disorders. In Tanu Wadhera & Deepti Kakkar (Eds.), *Interdisciplinary Approaches to Altering Neurodevelopmental Disorders* (pp. 87-106). IGI Global. DOI: 10.4018/978-1-7998-3069-6.

In-house Publications

The faculty and students of the Institute published the following papers in the *Student research at AIISH*, the inhouse journal of the Institute during the reporting year.

1. Abhijith, M. & Geetha, C. (2019). Evaluation of digital hearing aids with wireless synchronization in older adults. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 1-10, AIISH, Mysuru.

2. Akshay, M. & Neelamegarajan, D. (2019). Influence of musical proficiency on psychophysical tuning curves and contralateral suppression of DPOAEs. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 13: 2014-15, pp. 1-9, AIISH, Mysuru.
3. Amruthavarshini, B. & Yathiraj, A. (2019). Comparison of performance on SPIN-K between native Kannada speakers and non-native Kannada speakers having Malayalam as their native language. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 19-29, AIISH, Mysuru.
4. Angeline, K. & Rajalakshmi, K. (2019). Development of Video for counseling hearing aid users and check its efficacy using hearing aid handling skills. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 36-44, AIISH, Mysuru.
5. Anoop, & Manjula, P. (2019). Reasons for use and non-use of hearing aids. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 11-24, AIISH, Mysuru.
6. Athreya, V. M. & Barman, A. (2019). Relationship between some aspects of temporal processing and speech in noise scores in individuals with normal hearing. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 229-239, AIISH, Mysuru.
7. Bansal, S. & Sinha, S.K. (2019). Objective assessment of otolith and SCCS functions in individuals with severe to profound hearing loss. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 14: 2015-16, pp. 132-146, AIISH, Mysuru.
8. Basappa, A. & Prabhu, P. (2019). Evaluation of temporal processing abilities in individuals with hypertension. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 30-35, AIISH, Mysuru.
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10. Bhuvana, S. & Barman, A. (2019). Effect of spectro-temporal enhancement on speech perception in individuals with AD. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 13: 2014-15, pp. 10-23, AIISH, Mysuru.
11. Chaithra, K.C. & Ganapathy, M.K. (2019). Binaural interaction component for speech evoked ABR in older adults. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 45-51, AIISH, Mysuru.
12. Chandan, R. & Rajalakshmi, K. (2019). Noise induced hearing loss: its effects and awareness on city bus drivers. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 57-64, AIISH, Mysuru.
13. Chintamani, N. S. & Yathiraj, A. (2019). Development and evaluation of high frequency word identification test for children in Indian-English (HF-WITCIE). (Article based on dissertation) Vol.XV:2016-17, 240-250, AIISH, Mysuru.
14. Chowhan, P. J. & Hemanth. N. (2019). Prevalence and Audiological characteristics of single sided deafness in individuals with sensorineural hearing loss reported to AIISH 2015-2018. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 258-267, AIISH, Mysuru.
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25. Jeena, T. K. & Kumar, P. (2019). Binaural interaction component, binaural fusion test and masking level difference in children at risk of central auditory processing disorder. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 59-68, AIISH, Mysuru.

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34. Lepcha, M. & Sinha, S. (2019). Assessment of the otolithic and semicircular canal functions in individuals with sensorineural hearing loss. (Student

research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 73-84, AIISH, Mysuru.

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41. Navya, B. N. & Hemanth, N. (2019). Effect of gain and digital noise reduction on hearing aid in low annoyance and high annoyance group. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 13: 2014-15, pp. 50-60, AIISH, Mysuru.
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AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 52-56, AIISH, Mysuru.

43. Nayana, M. & Jijo, P. (2019). Psychoacoustic abilities of normal ear of listeners with unilateral hearing loss. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 122-130, AIISH, Mysuru.
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impairment. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 13: 2014-15, pp. 126-139, AIISH, Mysuru.

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