**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** |
|  | A Comparitive study on the influence of recording options on speech analysis | Dr. Ajish K Abraham  | 4.93 |
|  | A descriptive study on the video-fluroscopic 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 |
|  | A pre-post comparison of vocal loading using infrared thermography in phono-normals | Dr. R Rajasudhakar | 5.03 |
|  | AIISH survey of fluency disorders  | Dr. Y.V Geetha & Dr. Sangeetha Mahesh | 4.03 |
|  | An adaptation of Bankson language screening test in hindi (BLST-H) | Dr. Brajesh Priyadarsi & Dr. S.P Goswami | 4.93 |
|  | An adaptation of early reading skills (ERS) in Malayalam (ERS-M) | Dr. Brajesh Priyadarsi & Ms. Gayathri Krishnan | 4.93 |
|  | Audiological and vestibular assessment in persons with osteoporosis and osteopenia | Dr. Prawin Kumar &Dr. Raghunandana S | 4.93 |
|  | Auditory processing in children with speech sound disorders | Dr. Chandni Jain &Ms. Priya M.B. | 5.05 |
|  | Behavioral and electrophysiological correlates (N400) of lexical and phonological access in children with stuttering | Dr. M. Santosh&Dr. M Sandeep | 4.93 |
|  | Bithermal caloric test and video impulse test for the assessment of unilateral vestibular pathologies | Dr. Niraj Kumar Singh & Dr. Rajeshwari G | 4.33 |
|  | 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 |
|  | Database on communication disorders published in India | Dr. Shijith Kumar C., Mr. Nanjunda Swamy M. & Mr. Nandeesha B | 4.20 |
|  | Development and standardization of an oral sensorimotor evaluation protocol for children (OSEP-C) | Dr. N. Swapna | 4.33 |
|  | Development and standardization of reading passages for children in Kannada | Dr. Sangeetha Mahesh  | 4.93 |
|  | Development and validation of a computerized screening tool for infant cry | Dr. N. Sreedevi, Dr. Jayashree C. Shanbal & Mr. Arunraj K. | 4.43 |
|  | Development and validation of a screening tool for detection of dysphagia in neonates | Dr. Swapna N | 4.93 |
|  | 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 |
|  | Development of a preliminary test for assessment of prosody in children with SLI | Dr. N Sreedevi&Dr. Sangeetha M. | 4.88 |
|  | Development of AIISH hyperacusis assessment toolbox for individuals with tinnitus associated with hyperacusis | Dr. Prashanth Prabhu P. | 4.93 |
|  | Development of an objective tool for aphasia assessment through artificial neural networks | Dr. S.P Goswami&Dr. Abhishek B.P | 4.83 |
|  | Development of low frequency range word lists in Malayalam | Dr. Prashanth Prabhu & Dr. Jithin Raj B. | 4.93 |
|  | Development of severity rating scale for children with autism spectrum disorders | Dr. K.C. Shyamala | 4.93 |
|  | Development of toy usage index for children with developmental disabilities | Dr. S Venkatesan | 3.01 |
|  | Discourse and working memory in neuro-typical individuals and adults with aphasia | Dr. Hema N. | 4.98 |
|  | Effect of auditory deprivation on some aspects of temporal processing and speech perception abilities | Dr. Sandeep M. &Dr. Chandni Jain | 4.33 |
|  | 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 |
|  | Effect of noise and noise reduction technique on speaker identification | Dr. Hema N. | 4.33 |
|  | Effect of spatial noise on speech identification | Dr. Asha Yathiraj | 4.93 |
|  | Effectiveness of SNR-50 and SNR Loss in hearing aid evaluation | Dr. P Manjula&Dr. Megha | 4.33 |
|  | Efficacy of developing skills through curricular activities among preschool children with hearing impairment at AIISH | Dr. Alok Kumar Upadhyay&Dr. Palnaty Vijetha | 3.80 |
|  | 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 |
|  | Evaluation of digital signal processing features in hearing aids with ear to ear synchronization | Dr. Geetha C. &Mr. Kishore Tanniru | 4.03 |
|  | Executive functions in normal aging and persons with mild cognitive impairment | Dr. Abhishek B.P. &Dr. R Rajasudhakar | 4.98 |
|  | Exploring real world hearing aid usage and outcome: Current Indian scenario | Dr. P. Manjula | 4.93 |
|  | Genetic insights of cerebral palsy using massively parallel sequencing  | Dr. N. Sreedevi, Dr. N Swapna &Dr. Srinivas Kovalli | 6.31 |
|  | 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 |
|  | 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 |
|  | Lexical processing in type 2 diabetes | Dr. Rajasudhakar R | 4.93 |
|  | Lexical semantic processing in persons with aphasia: correlational study of psycholinguistic and neurolinguistic measures  | Mr. Abhishek B.P. &Dr. K.S Prema | 4.03 |
|  | 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 |
|  | Neural correlates of perceptual learning of non-native speech sound contrast | Dr. Ajith Kumar U. &Dr. Santosh M | 4.33 |
|  | Noise mapping of mysuru city with additional funding | Dr. Sreeraj K. &Ms. Suma Chatni | 6.70 |
|  | 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 |
|  | Phonological encoding in children with stuttering  | Dr. Sangeetha Mahesh & Ms. M.P Geetha | 4.93 |
|  | 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 |
|  | Relationship between envelop difference index (EDI) and speech perception with noise reduction strategies in hearing aids  | Dr. Geetha C. &Dr. Hemanth, N | 4.33 |
|  | Relationship between hearing aid benefit and auditory processing abilities in elderly individuals with hearing impairment | Dr. Geetha C. &Dr. Chandni Jain | 5.05 |
|  | Speech identification in the non-aided ear in monaural hearing aid users | Dr. Asha Yathiraj | 4.93 |
|  | Standardization of linguistic profile test (LPT) in Tamil | Dr. T Jayakumar | 4.88 |
|  | Status report of speech and hearing professionals graduated from AIISH – national and global scenario  | Dr. S. Ramkumar &Dr. S.P Goswami | 4.50 |
|  | TOLD-H: An adaptation of TOLD | Dr. Brajesh Priyadarshi& Dr. S.P Goswami | 4.96 |
|  | Validation of feeding handicap index in children with intellectual disability and autism spectrum disorders  | Dr. N. Swapna  | 4.03 |
|  | Validation of nasality severity index | Dr. Navya A. &Dr. Pushpavathi M. | 4.93 |
|  | 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-synchronours 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** |
|  | Adaptation and validation of vocal fatigue index (VFI) in Kannada | Dr. R Rajasudhakar | 4.33 |
|  | An exploratory study of tinnitus in Indian context | Dr. K Rajalakshmi, Mr. Vinaya K.C, Prof. David Baguly& Prof. Gerhard Andersson | 4.03 |
|  | Auditory brain plasticity: in carnatic vocalists, instrumental musicians and non-musicians | Dr. K Rajalakshmi | 4.03 |
|  | Auditory temporal processing in older adults: A behavioural and electrophysiological measures | Mr. Prashanth Prabhu | 5.18 |
|  | 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 |
|  | Automation of Malayalam articulation test using automatic speech recognition techniques | Dr. Ajish K Abraham, Dr. Leena Mary &Dr. N. Sreedevi | 5.00 |
|  | Behavioral and electro physiological correlates of lexical semantic activation in high and low proficient bilinguals | Dr. Sandeep M., Dr. Abhishek B.P&Dr. Chandni Jain | 4.88 |
|  | Behavioural and electrophysiological (P300) correlates for visual and auditory process in Alzheimer’s diseases | Dr. Hema N. &Dr. Devi N. | 4.88 |
|  | Behavioural and electrophysiological correlates (N400) of lexical access in bilingual adults with stuttering  | Dr. Santosh M. & Dr. Abhishek B.P. | 4.33 |
|  | Cochlear implant outcome measures: Comparison of rating scales and speech perception | Dr. Megha  | 5.05 |
|  | Cognitive linguistic intervention program for children at risk for learning disability | Dr. Jayashree C. Shanbal&Mr. Hariharan V. | 4.93 |
|  | 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 |
|  | 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 |
|  | Design and development of e-learning platform and faculty profile system | Dr. Shijith Kumar C.,Dr. Manohar N.&Dr. Malar G. | 4.68 |
|  | 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 |
|  | 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 |
|  | 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 |
|  | Development and standardization of western aphasia battery in Tamil | Dr. Hema N  | 4.88 |
|  | Development and validation of a mobile application tool for airthmeticconcept teaching for preschoolers | Dr. Swapna N | 7.88 |
|  | Development of grade level assessment test in science for upper primary school children (VI-VIII) | Dr. Prithi Venkatesh | 4.00 |
|  | Development of phonemically balanced word lists in Tamil language for adults | Dr. Geetha C. &Dr. Devi N. | 4.88 |
|  | 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 |
|  | Development of speech enabled communication tool for clients with speech impairment in Kannada | Mr. Manohar N | 4.95 |
|  | Disability evaluation in mental retardation using WHODAS 2.0 in a clinical setting | Mr. Freddy Antony&Mr. Sanjeev Kumar Gupta | 3.25 |
|  | Effect of combined tactile, thermal and gustatory stimulation on feeding and swallowing in children with cerebral palsy | Dr. N Swapna | 4.93 |
|  | 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 |
|  | 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 |
|  | Encoding of speech and music at auditory brainstem (frequency following response) with and without hearing aid | Dr. Devi N. | 4.98 |
|  | Feasibility of standardized neuropsychological tests in assessment of patients with aphasia | Dr. Amrita Kanchan &Dr. Nawab A Khan | 3.30 |
|  | Field-testing of ‘Constant Therapy’ in Hindi and Kannada | Dr. S.P Goswami &Dr. Swathi Kiran  | 4.93 |
|  | Impact of acoustic stimuli used for various measures of VEMP on the auditory system | Dr. Niraj Kumar Singh & Dr. Prawin Kumar | 4.93 |
|  | 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 |
|  | Life satisfaction and quality of life in persons with aphasia beyond communication | Dr. S.P Goswami | 4.96 |
|  | Morphosyntactic processing in dyslexia: application of an ERP measure | Dr. Jayashree C Shanbal, Ms. Mamatha N.M. &Gopi Shankar R | 4.03 |
|  | Normative data for click rate induced facilitation for assessing temporal integration  | Dr. K. Rajalakshmi& Mr. Prashasti P. Poovaiah | 4.93 |
|  | Perception and production of prosody in children with hearing impairment | Dr. Yeshoda K &Dr. Sreeraj K  | 4.93 |
|  | Prevalence and risk factors for voice problems and effect of voice projection training in imans | Dr. Jayakumar T. | 4.88 |
|  | 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 |
|  | Product development of useful products of research carried out at AIISH | Dr. Prashanth Prabhu, Dr. Shijith Kumar C & Dr. Priya M.B | 5.03 |
|  | 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 |
|  | Relationship between auditory abilities and iron deficiency anemia in adolescent girls | Dr. Chandni Jain, Dr. Chetak K.B & Mr. Vipin Ghosh | 5.33 |
|  | 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 |
| 1. 1
 | Standardization of a discourse analysis scale for conversation, narration and picture description in kannada (DAS) | Dr. Hema N. &Dr. K C Shyamala | 4.03 |
|  | 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 |
|  | Syntactic judgment abilities in persons with non fluent aphasia  | Dr. Abhishek B.P. &Dr. K.C Shyamala | 4.33 |
|  | 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** |
|  | Anoop B.J | External | Cognitive and ERP measures of informational masking in young and elderly normal hearing individuals | Dr.Ajith Kumar U |
|  | Anuprasad S | External | Auditory Processing and Auditory Working Memory in Children with Benign Epilepsy with Centrotemporal Spikes | Dr. K Rajalakshmi |
|  | Arunraj K | In-service | Clinical Validation of Wideband Absorbance Tympanometry in Detecting Middle Ear Disorders | Dr. Animesh Barman |
|  | Bhalerao Sanket Satish | External | Yet to decide | Dr. Geetha C |
|  | Darga Baba Fakruddin | In-service | Effect of Age, Hearing Loss Working Memory on Speech Recognition in Naive Hearing aid Users | Dr. K Rajalakshmi |
|  | Deepashree S.R | External | Auditory brainstem responses and otoacoustic emissions in infants born to mothers with iron deficiency anaemia | Dr.Ajith Kumar U |
|  | Dhananjay Rachana | External | Yet to decide | Dr. Devi N |
|  | Dhanya M | External | Perceptual Cues of Coarticulation in Malayalam in Normal Hearing and Hearing Impaired Individuals | Dr. Sandeep M |
|  | Gowri R | AIISH, JRF | Yet to decide | Dr. Sandeep M |
|  | Husna Firdose | External | A relationship between Audiological characteristics and a few management options in individuals with auditory neuropathy spectrum disorders | Dr. Manjula P |
|  | Indira C.P | DST, JRF | Hearing Help Seeking Behaviour in Parents of Children with Hearing Loss | Dr. Sandeep M |
|  | 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 |
|  | Jim Saroj Winston | AIISH, JRF | Effect of Short-term musical training on psycho-acoustical, electrophysiological and working memory measures | Dr. Ajith Kumar U |
|  | Kriti Arora | AIISH, JRF | Yet to decide | Dr. Sandeep M |
|  | 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 |
|  | Mamatha N.M | In-service | Effect of Auditory Processing abilities on Academic Performance in Kannada Speaking Primary School Children | Dr. Asha Yathiraj |
|  | Meghana Mohan B | AIISH, JRF | Yet to decide | Dr. K Rajalakshmi |
|  | Meghana N | AIISH, JRF | Yet to decide | Dr. Manjula P |
|  | 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 |
|  | Nayana M | AIISH, JRF | Yet to decide | Dr. Prawin Kumar |
|  | Pathak Mayur Balaji | External | Yet to decide | Dr. Chandni Jain |
|  | 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 |
|  | Prajna Bhat J | External | Brainstem Neurophysiological Correlates of Pitch Coding In Vocal and Instrumental Musicians | Dr. K Rajalakshmi |
|  | 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 |
|  | Priyanjali Harit |  External | Yet to decide | Dr. Prawin Kumar |
|  | 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 |
|  | Rajesh Kumar R | AIISH, JRF | Yet to decide | Dr. Niraj Kumar Singh |
|  | Rakesh Gatla | AIISH, JRF | Effect of Exposure to Below-Damage Risk Criteria Environmental Noise on Auditory Processing Abilities | Dr. Sandeep M |
|  | Rashmi E | AIISH, JRF | Yet to decide | Dr. Devi N |
|  | Reesha O.A | DST-JRF | Efficacy of computer-based auditory separation training in children with auditory processing disorders | Dr. Prawin Kumar |
|  | S Sridhar | AIISH, JRF | Yet to decide | Dr. Devi N |
|  | Sahana P | AIISH, JRF | Yet to decide | Dr. Manjula P |
|  | Sahana V | AIISH, JRF | Auditory and cognitive profiling in normal hearing individuals with occupational noise exposure | Dr. Ajith Kumar U |
|  | Shezeen Abdul Gafoor | AIISH, JRF | Yet to decide | Dr. Ajith Kumar U |
|  | Shreyank P. Swamy | External | Comparison of Contralateral Suppression of Otoacoustic Emissions between Children with APD and Children with ADHD | Dr. Asha Yathiraj |
|  | Shubha Tak | External | Loudness Perception in Children Using Hearing Aids and Children Using Cochlear Implants | Dr. Asha Yathiraj |
|  | Shubhaganga D | AIISH, JRF | Influence of education, employment and gender on auditory processing and cognition in older adults | Dr. Asha Yathiraj |
|  | Sreena E.N | AIISH, JRF | Preferred Compression Amplification Setting for Individuals with Varying Audiogram Configurations | Dr. Manjula P |
|  | 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 |
|  | Syeda Aisha | AIISH, JRF | Yet to decide | Dr. Chandni Jain |
|  | Vignesh SS | External | Auditory vestibular functions in individuals with multiple sclerosis | Dr. K Rajalakshmi |
|  | Vikas M.D | In-service | Effects of Temporal Resolution, Working Memory and Personality on Hearing Aid Benefit in Older Adults | Dr. Manjula P |
|  | Vinayagar P.T | AIISH, JRF | Yet to decide | Dr. Sujeet Kumar Sinha |
| **Speech-Language Pathology** |
|  | Akshaya S |  External | Yet to decide | Dr. SP Goswami |
|  | Ameena Subhakani S | AIISH, JRF | Yet to decide | Dr. Swapna N |
|  | Amoolya G | External | Bilingual Effect on Written Language Skills in Kannada English Bilingual Biliterate Children With Learning Disability | Dr. Jayashree C Shanbal |
|  | 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 |
|  | Aparna V.S | External | Speech and Language Outcomes in School Goging Children Following Early Primary Cleft Palate Repair | Dr. M Pushpavathi |
|  | Bilvashree C | AIISH, JRF | Yet to decide | Dr. K Yeshoda |
|  | Ceana Mariya Paul | AIISH, JRF | Yet to decide | Dr. K. Yeshoda |
|  | Darshan H. S | AIISH, JRF | A Comparative Study on Statistical Learning Abilities in Persons with Aphasia and Neuro-typical Individuals | Dr. S P Goswami |
|  | Deepak P | AIISH, JRF | Efficacy of Verb Network Strengthening Treatment in Persons with Aphasia | Dr. S P Goswami |
|  | Deepthy Ann Joy | External | Acoustic and articulatory characteristics of Malayalam speaking children using Cochlear Implant | Dr. N Sreedevi |
|  | Divya Seth | External | Efficacy of response cost treatment in preschool children who stutter | Dr. Santosh M |
|  | Divyashree K.N. | AIISH, JRF | Yet to decide | Dr. N. Sreedevi |
|  | Geetha M.P |  External | Yet to decide | Dr. T. Jayakumar |
|  | Girish K.S | DBT-JRF | Development of Norms for Nasospeech in Typically Developing Children | Dr. M Pushpavathi |
|  | Jesnu Jose Benoy | AIISH,JRF | Yet to decide | Dr. T Jayakumar |
|  | Jothi S |  External | Yet to decide | Dr. Jayashree C Shanbal |
|  | 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 |
|  | Kavya V | AIISH, JRF | Yet to decide | Dr. Swapna N |
|  | Khyathi G Jain |  External | Yet to decide | Dr. SP Goswami |
|  | Lakshmipriya S.M |  External | Yet to decide | Dr. Hema N |
|  | M. Sonam Belliappa | AIISH,JRF | Use of Chin Tuck against Resistance and Neuromuscular Electrical Stimulation for Swallow Function in Parkinson's Disease : A Comparative Study | Dr. S P Goswami |
|  | Manasa A.S |  External | Yet to decide | Dr. M Pushpavathi |
|  | Manju S | External | Speech and language development in Malayalam speaking toddlers with repaired cleft lip and palate | Dr. M Pushpavathi |
|  | Nagashreeya D |  External | Yet to decide | Dr. SP Goswami |
|  | Nikitha M | AIISH, JRF | Gesture Perception and Production abilities in Persons with Aphasia: A Comparative Study | Dr. S P Goswami |
|  | Nirmal Sugathan | External | Comparison of Phonological Processing between Children who persist and recover from stuttering | Dr. Santosh M |
|  | Pooja C | AIISH, JRF | Yet to decide | Dr. Hema N |
|  | Priyanka | External | Cross-Linguistic Generalization of Fluency in Kannada-English Bilingual Adults who Stutter: Effect of Non-Programmed Prolonged Speech Treatment | Dr. Santosh M |
|  | 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 |
|  | Ranjini G.C. | External | Derived Acoustic measures of Vowels in Kannada Speaking children with Cochlear implant | Dr. N. Sreedevi |
|  | Ranjitha Kashyap B.N | AIISH, JRF | Yet to decide | Dr. T.Jayakumar |
|  | Ranjitha R | External | Development and Standardization of a Test Battery to Evaluate Phonological Representations in Malayalam Speaking Preschool Children | Dr. N Sreedevi |
|  | Reuben Thomas Varghese | External | Comparison of Early Cognitive - Communicative Deficits between Persons with Dementia of Alzheimer's Type (DAT) and Mild Cognitive Impairment (MCI) | Dr. S P Goswami |
|  | Revathi R |  AIISH, JRF | Yet to decide | Dr. K Yeshoda |
|  | Sahana Srinivasan |  AIISH, JRF | Yet to decide | Dr. Swapna N |
|  | Seema M | External | Yet to decide | Dr. N. Sreedevi |
|  | Sneha Mareen Varghese | External | Graphophonological-Semantic Flexibility and Reading Comprehension in Children with Dyslexia | Dr. Jayashree C Shanbal |
|  | Srushti Shabnam | External | Acoustic Voice Quality Index based dysphonia severity classification | Dr. M Pushpavathi |
|  | Susan G Oommen | External | Effect of bilingualism on linguistic and executive functions in children with autism spectrum disorders | Dr. Shyamala K C |
|  | Sushma Manjunath | AIISH, JRF | Development and Validation of Therapy Protocol for Compensatory Articulation in Children with repaired cleft lip and palate | Dr. M Pushpavathi |
|  | Vasupradaa M | AIISH, JRF | Yet to decide | Dr. Santosh M |
|  | Vineetha Sara Philip | AIISH, JRF | Symbolic language abilities for aided communication in persons with Aphasi | Dr. S P Goswami |
|  | 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 Alshawawreh | External | Yet to decide | T. Jayakumar |
| **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 visual vertical test in Individuals with Sensorineural Hearing loss | Dr. Sujeet 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 vestibule-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. Intracanicular 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 | Kalaiyarasan 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 | LayamolT.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 singers with and without vocal fatigue | Dr. Santosh, M. |
| 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 nasalence 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 swllowing 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 | Sundareswari 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 questionnairetoMalyalam | 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 aharacteristics 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.VCo- 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](https://pubmed.ncbi.nlm.nih.gov/30295156/) | 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 | JijinuP.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 prospective speech-language pathologists and Audiologists | Dr. Sandeep M |
| 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 KCo- Guide:Dr. Nisha K.V |
| 26 | Namitha Jain | Prevalence of Auditory hallucinations in individuals with hearing impairment  | Dr. Sreeraj K |
| 27 | Prabuddha Bhatarai | 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.VCo- 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 education for children with hearing impairment: A systematic review | Dr. Devi N |
| 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 AntonyCo-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. ManoharCo-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. VargheseCo-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 characterstics through virtual mode  | Dr. Ajish K. AbrahamCo-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. VargheseCo-Guide: Dr. Rajasudhakar, R. |
| 68 | Rini, K. R. | Development of vocal education material for individuals with puberphonia | Dr. Jayakumar, T. |
| 69 | Rushali Hemantkumar Thakar | Development of cognitive linguistic intervention manual in hindi for persons with dementia: An adaptation of CLIM- Malayalam | Dr. Goswami, S. P. |
| 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. AbrahamCo-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 3rdInternational 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).
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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).
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18. Veerabhadrappa, R.C. & Maruthy, S. (2021). *Efficacy of prolonged speech and pause and talk techniques in school-aged children who stutter: A comparison.*Paperpresented 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.
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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 46thNational 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](https://doi.org/10.1177/%201351010X20975765).
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.
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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.
5. Barman, A., Prabhu. P., Narayanan, S., Vijayan, K. & Mekhala, V.G. (2021). Electrophysiological findings in specific language impairment: A scoping view. *Hearing Balance and Communication*, 19 (1), 26-30.
6. Barman, A., Prabhu, P., Mekhala, V. G., Kavya, V. & Swapna, N. (2020). Auditory processing in children with specific language impairment: A FFR based study. *Indian Journal of Otolaryngol Head Neck Surgery*,<https://doi.org/>10.1007/s12070-020-02127-x.
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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 Shirly, G., Suja K Kunnath, Vinitha Mary George & Anne Varghese (Eds.), *Communication Disorders: Illustrated in ICF Framework*, National Institute of Speech and Hearing, Thiruvananthapuram.
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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.
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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.
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**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.
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