

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. 245.54 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

Sl. No.	Topic	Investigators	Amount in lakhs
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 Priyadarshi & Dr. S.P Goswami	4.93
6.	An adaptation of early reading skills (ERS) in Malayalam (ERS-M)	Dr. Brajesh Priyadarshi & 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.	Cognitive linguistic abilities across different vocations	Dr. K.C. Shyamala	4.93
12.	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
13.	Database on communication disorders published in India	Dr. Shijith Kumar C., Mr. Nanjunda Swamy M. & Mr. Nandeesh B	4.2
14.	Development and standardization of an oral sensorimotor evaluation protocol for children (OSEP-C)	Dr. N. Swapna	4.33
15.	Development and standardization of reading passages for children in Kannada	Dr. Sangeetha Mahesh	4.93

Sl. No.	Topic	Investigators	Amount in lakhs
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 assessment toolbox for individuals with tinnitus associated with hyperacusis	Dr. Prashanth Prabhu P.	4.93
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 P. & 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

Sl. No.	Topic	Investigators	Amount in lakhs
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 impairment	Dr. Abhishek B.P. & Dr. R Rajasudhakar	4.98
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

Sl. No.	Topic	Investigators	Amount in lakhs
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

Sl. No.	Topic	Investigators	Amount in lakhs
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-one research projects worth Rs. 438.69 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

Sl. No.	Topic	Investigators	Amount in lakhs
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	Dr. Prashanth Prabhu P.	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 bilinguals	Dr. Sandeep M., Dr. Abhishek B. P & Dr. Chandni Jain	4.88
8.	Behavioural and electrophysiological (P300) correlates for visual and auditory process in Alzheimer's diseases	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 & Mr. Jawahar Antony	5.05
11.	Cognitive linguistic intervention program for children at risk for learning disability	Dr. Jayashree C. Shanbal & Mr. Hariharan V.	4.93

Sl. No.	Topic	Investigators	Amount in lakhs
12.	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
13.	Design and development of e-learning platform and faculty profile system	Dr. Shijith Kumar C., Dr. Manohar N. & Dr. Malar G.	4.68
14.	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
15.	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
16.	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
17.	Development and standardization of western aphasia battery in Tamil	Dr. Hema N	4.88
18.	Development and validation of a mobile application tool for arithmetic concept teaching for preschoolers	Dr. Swapna N	7.88
19.	Development of grade level assessment test in science for upper primary school children (VI-VIII)	Dr. Prithi Venkatesh	4.00
20.	Development of phonemically balanced word lists in Tamil language for adults	Dr. Geetha C. & Dr. Devi N.	4.88

Sl. No.	Topic	Investigators	Amount in lakhs
21.	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
22.	Development of speech enabled communication tool for clients with speech impairment in Kannada	Mr. Manohar N	4.95
23.	Disability evaluation in mental retardation using WHODAS 2.0 in a clinical setting	Mr. Freddy Antony & Dr. Sanjeev Kumar Gupta	3.25
24.	Effect of combined tactile, thermal and gustatory stimulation on feeding and swallowing in children with cerebral palsy	Dr. N Swapna	4.93
25.	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
26.	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
27.	Encoding of speech and music at auditory brainstem (frequency following response) with and without hearing aid	Dr. Devi N.	4.98
28.	Feasibility of standardized neuropsychological tests in assessment of patients with aphasia	Dr. Amrita Kanchan & Dr. Nawab A Khan	3.30
29.	Field-testing of 'Constant Therapy' in Hindi and Kannada	Dr. S.P Goswami & Dr. Swathi Kiran	4.93
30.	Impact of acoustic stimuli used for various measures of VEMP on the auditory system	Dr. Niraj Kumar Singh & Dr. Prawin Kumar	4.93

Sl. No.	Topic	Investigators	Amount in lakhs
31.	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
32.	Life satisfaction and quality of life in persons with aphasia beyond communication	Dr. S.P Goswami	4.96
33.	Morphosyntactic processing in dyslexia: application of an ERP measure	Dr. Jayashree C Shanbal, Ms. Mamatha N.M. & Gopi Shankar R	4.03
34.	Normative data for click rate induced facilitation for assessing temporal integration	Dr. K. Rajalakshmi & Mr. Prashasti P. Poovaiah	4.93
35.	Perception and production of prosody in children with hearing impairment	Dr. Yeshoda K & Dr. Sreeraj K	4.93
36.	Prevalence and risk factors for voice problems and effect of voice projection training in imams	Dr. Jayakumar T.	4.88
37.	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
38.	Product development of useful products of research carried out at AIISH	Dr. Prashanth Prabhu, Dr. Shijith Kumar C & Dr. Priya M. B	5.03
39.	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



Sl. No.	Topic	Investigators	Amount in lakhs
40.	Relationship between auditory abilities and iron deficiency anemia in adolescent girls	Dr. Chandni Jain, Dr. Chetak K.B & Mr. Vipin Ghosh	5.33
41.	Short term correlations between speech motor variability and behavioural dysfluencies in persons with stuttering following fluency shaping therapy	Dr. Anjana B. Ram & Dr. Mahesh BVM	4.85
42.	Standardization of a discourse analysis scale for conversation, narration and picture description in Kannada (DAS)	Dr. Hema N. & Dr. K C Shyamala	4.03
43.	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
44.	Syntactic judgment abilities in persons with non fluent aphasia	Dr. Abhishek B. P. & Dr. K.C Shyamala	4.33
45.	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. 190.30 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. Funding: 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, ongoing and new doctoral research are given in table 7, 8 and 9 respectively.

Table 7: 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 8: 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 Wideband Absorbance Tympanometry in Detecting Middle Ear Disorders	Dr. Animesh Barman

Sl. No.	Candidate	Category	Topic	Guide
4.	Darga Baba Fakruddin	In-service	Effect of Age, Hearing Loss Working Memory on Speech Recognition in Naive Hearing aid Users	Dr. K Rajalakshmi
5.	Deepashree S. R	External	Auditory brainstem responses and otoacoustic emissions in infants born to mothers with iron deficiency anaemia	Dr. Ajith Kumar U
6.	Dhanya M	External	Perceptual Cues of Coarticulation in Malayalam in Normal Hearing and Hearing Impaired Individuals	Dr. Sandeep M
7.	Husna Firdose	External	A relationship between Audiological characteristics and a few management options in individuals with auditory neuropathy spectrum disorders	Dr. Manjula P
8.	Indira C.P	DST, JRF	Hearing Help Seeking Behaviour in Parents of Children with Hearing Loss	Dr. Sandeep M
9.	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
10.	Jim Saroj Winston	AIISH, JRF	Effect of short-term musical training on psycho-acoustical, electrophysiological and working memory measures	Dr. Ajith Kumar U
11.	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
12.	Mamatha N.M	In-service	Effect of Auditory Processing abilities on Academic Performance in Kannada Speaking Primary School Children	Dr. Asha Yathiraj
13.	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

Sl. No.	Candidate	Category	Topic	Guide
14.	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
15.	Prajna Bhat J	External	Brainstem Neurophysiological Correlates of Pitch Coding In Vocal and Instrumental Musicians	Dr. K Rajalakshmi
16.	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
17.	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
18.	Rakesh Gatla	AIISH, JRF	Effect of Exposure to Below-Damage Risk Criteria Environmental Noise on Auditory Processing Abilities	Dr. Sandeep M
19.	Reesha O.A	DST-JRF	Efficacy of computer-based auditory separation training in children with auditory processing disorders	Dr. Prawin Kumar
20.	Sahana V	AIISH, JRF	Auditory and cognitive profiling in normal hearing individuals with occupational noise exposure	Dr. Ajith Kumar U
21.	Shreyank P. Swamy	External	Comparison of Contralateral Suppression of Otoacoustic Emissions between Children with APD and Children with ADHD	Dr. Asha Yathiraj
22.	Shubha Tak	External	Loudness Perception in Children Using Hearing Aids and Children Using Cochlear Implants	Dr. Asha Yathiraj
23.	Shubhaganga D	AIISH, JRF	Influence of education, employment and gender on auditory processing and cognition in older adults	Dr. Asha Yathiraj
24.	Sreena E.N	AIISH, JRF	Preferred Compression Amplification Setting for Individuals with Varying Audiogram Configurations	Dr. Manjula P

Sl. No.	Candidate	Category	Topic	Guide
25.	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
26.	Vignesh S. S	External	Auditory vestibular functions in individuals with multiple sclerosis	Dr. K Rajalakshmi
27.	Vikas M. D	In-service	Effects of Temporal Resolution, Working Memory and Personality on Hearing Aid Benefit in Older Adults	Dr. Manjula P
Speech-Language Pathology				
1.	Amoolya G	External	Bilingual Effect on Written Language Skills in Kannada English Bilingual Biliterate Children With Learning Disability	Dr. Jayashree C Shanbal
2.	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



Sl. No.	Candidate	Category	Topic	Guide
3.	Aparna V.S	External	Speech and Language Outcomes in School Goging Children Following Early Primary Cleft Palate Repair	Dr. M Pushpavathi
4.	Darshan H. S	AIISH, JRF	A Comparative Study on Statistical Learning Abilities in Persons with Aphasia and Neuro-typical Individuals	Dr. S P Goswami
5.	Deepak P	AIISH, JRF	Efficacy of Verb Network Strengthening Treatment in Persons with Aphasia	Dr. S P Goswami
6.	Deepthy Ann Joy	External	Acoustic and articulatory characteristics of Malayalam speaking children using Cochlear Implant	Dr. N Sreedevi
7.	Divya Seth	External	Efficacy of response cost treatment in preschool children who stutter	Dr. Santosh M
8.	Girish K.S	DBT-JRF	Development of Norms for Nasospeech in Typically Developing Children	Dr. M Pushpavathi
9.	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
10.	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
11.	Manju S	External	Speech and language development in Malayalam speaking toddlers with repaired cleft lip and palate	Dr. M Pushpavathi
12.	Nikitha M	AIISH, JRF	Gesture Perception and Production abilities in Persons with Aphasia: A Comparative Study	Dr. S P Goswami
13.	Nirmal Sugathan	External	Comparison of Phonological Processing between Children who persist and recover from stuttering	Dr. Santosh M

Sl. No.	Candidate	Category	Topic	Guide
14.	Priyanka	External	Cross-Linguistic Generalization of Fluency in Kannada-English Bilingual Adults who Stutter: Effect of Non-Programmed Prolonged Speech Treatment	Dr. Santosh M
15.	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
16.	Ranjini G.C.	External	Derived Acoustic measures of Vowels in Kannada Speaking children with Cochlear implant	Dr. N. Sreedevi
17.	Ranjitha R	External	Development and Standardization of a Test Battery to Evaluate Phonological Representations in Malayalam Speaking Preschool Children	Dr. N Sreedevi
18.	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
19.	Sneha Mareen Varghese	External	Graphophonological-Semantic Flexibility and Reading Comprehension in Children with Dyslexia	Dr. Jayashree C Shanbal
20.	Srushti Shabnam	External	Acoustic Voice Quality Index based dysphonia severity classification	Dr. M Pushpavathi
21.	Susan G Oommen	External	Effect of bilingualism on linguistic and executive functions in children with autism spectrum disorders	Dr. Shyamala K C
22.	Sushma Manjunath	AIISH, JRF	Development and Validation of Therapy Protocol for Compensatory Articulation in Children with repaired cleft lip and palate	Dr. M Pushpavathi
23.	Vineetha Sara Philip	AIISH, JRF	Symbolic language abilities for aided communication in persons with Aphasi	Dr. S P Goswami

Sl. No.	Candidate	Category	Topic	Guide
Linguistics				
1	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
Special Education				
1.	Devaraj N.B	External	Effectiveness of school readiness program on pre-school children with hard of hearing	Dr. Alok Kumar Upadhyay

Table 9: New Doctoral Research

Sl.No.	Candidate	Category	Guide
Audiology			
1	Bhalerao Sanket Satish	External	Dr. Geetha C
2	Dhananjay Rachana	External	Dr. Devi N
3	Gowri R	AIISH, JRF	Dr. Sandeep M
4	Kriti Arora	AIISH, JRF	Dr. Sandeep M
5	Meghana Mohan B	AIISH, JRF	Dr. K Rajalakshmi
6	Meghana N	AIISH, JRF	Dr. Manjula P
7	Nayana M	AIISH, JRF	Dr. Prawin Kumar
8	Pathak Mayur Balaji	External	Dr. Chandni Jain
9	Priyanjali Harit	External	Dr. Prawin Kumar
10	Rajesh Kumar R	AIISH, JRF	Dr. Niraj Kumar Singh
11	Rashmi E	AIISH, JRF	Dr. Devi N
12	S Sridhar	AIISH, JRF	Dr. Devi N
13	Sahana P	AIISH, JRF	Dr. Manjula P
14	Shezeen Abdul Gafoor	AIISH, JRF	Dr. Ajith Kumar U
15	Syeda Aisha	AIISH, JRF	Dr. Chandni Jain
16	Vinayagar P.T	AIISH, JRF	Dr. Sujeet Kumar Sinha



Sl.No.	Candidate	Category	Guide
Speech Language Pathology			
1	Akshaya S	External	Dr. S.P Goswami
2	Ameena Subhakani S	AIISH, JRF	Dr. Swapna N
3	Bilvashree C	AIISH, JRF	Dr. K. Yeshoda
4	Ceana Mariya Paul	AIISH, JRF	Dr. K. Yeshoda
5	Divyashree K.N.	AIISH, JRF	Dr. N. Sreedevi
6	Geetha M. P	External	Dr. T. Jayakumar
7	Jesnu Jose Benoy	AIISH,JRF	Dr. T Jayakumar
8	Jothi S	External	Dr. Jayashree C Shanbal
9	Kavya V	AIISH, JRF	Dr. Swapna N
10	Khyathi G Jain	External	Dr. S.P Goswami
11	Lakshmipriya S. M	External	Dr. Hema N
12	Manasa A. S	External	Dr. M Pushpavathi
13	Nagashreeya D	External	Dr. S.P Goswami
14	Pooja C	AIISH, JRF	Dr. Hema N
15	Ranjitha Kashyap B. N	AIISH, JRF	Dr. T. Jayakumar
16	Revathi R	AIISH, JRF	Dr. K. Yeshoda
17	Sahana Srinivasan	AIISH, JRF	Dr. Swapna N

Sl.No.	Candidate	Category	Guide
18	Seema M	External	Dr. N. Sreedevi
19	Vasupradaa M	AIISH, JRF	Dr. Santosh M
20	Yashaswini B C	AIISH, JRF	Dr. Hema N
Linguistics			
1	Eman Al Haider Moussabi	External	Dr. Brajesh Priyadarshi
2	Mustafa Nafi Ahmed Alshawawreh	External	T. Jayakumar
Special Education			
1	Dhivya D	External	Dr.Alok Kumar Upadhyay
2	Lakshmi Prabha J.K.	External	Dr.Alok Kumar Upadhyay
3	Omar Wajdy Aref Al- Rawashdeh	External	Dr.Alok Kumar Upadhyay
4	Nagarathnamma	External	Dr.Alok Kumar Upadhyay
5	Subramanya K.R	External	Dr.Alok Kumar Upadhyay



Postgraduate Research

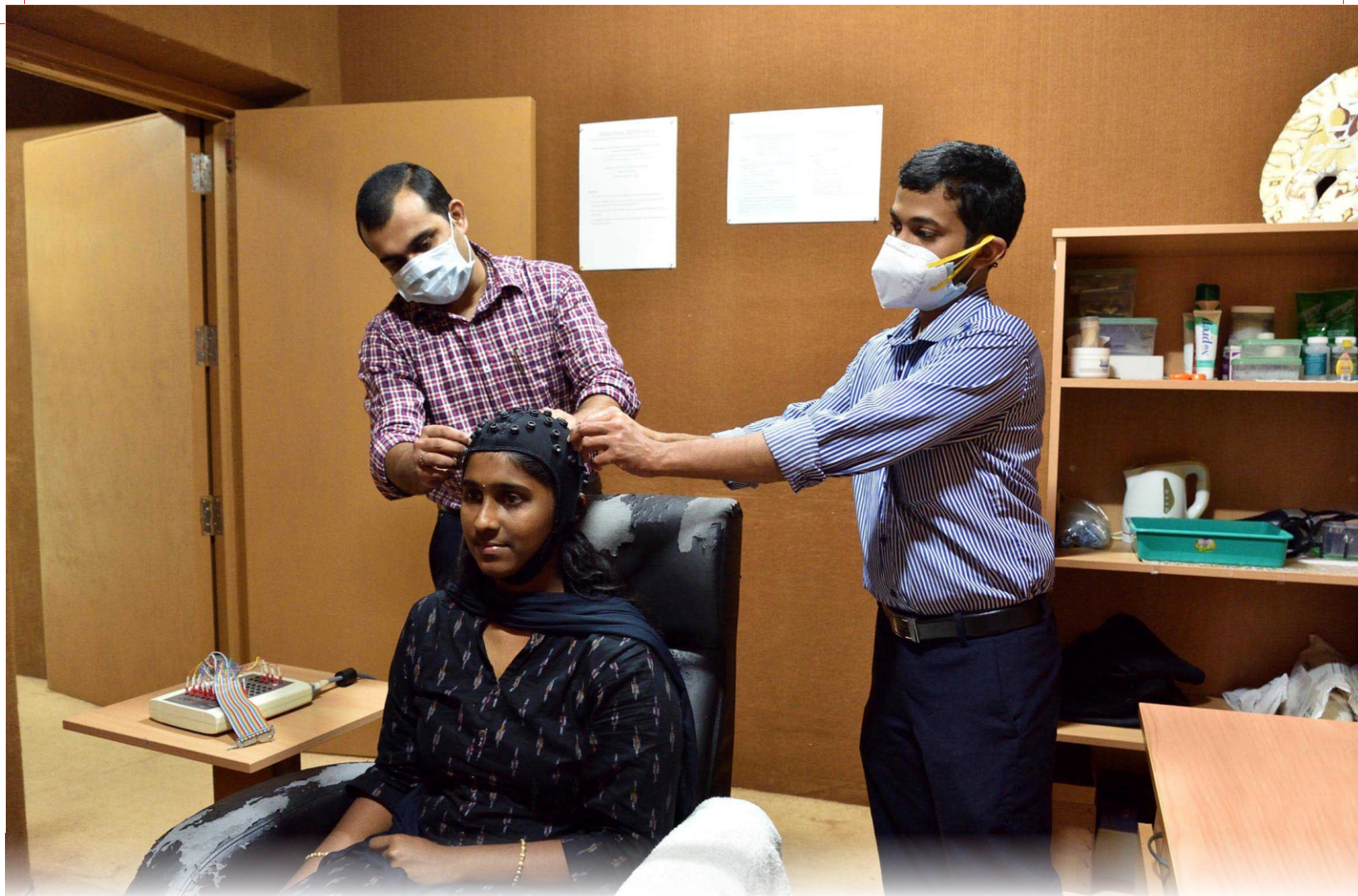
The postgraduate students of the institute carry out research as a part of their course work. The details of completed postgraduate research carried out as a part of M.Sc. Audiology and M.Sc. Speech-Language Pathology are given in table 10 and the ongoing research works in table 11.

Table 10: 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

SL. No.	Candidate	Topic	Guide
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	Kirubaharane S 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

SL. No.	Candidate	Topic	Guide
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.	Dr. 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



SL. No.	Candidate	Topic	Guide
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

SL. No.	Candidate	Topic	Guide
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 P
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

SL. No.	Candidate	Topic	Guide
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 (seback) linguistic processing ability	Dr. Hema N
54	Kranti Acharya	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	Mr. 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

SL. No.	Candidate	Topic	Guide
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	Rishisha Lyngkhoi	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	Sundareswari Pon	Acquisition and retention of nonwords in adults with and without stuttering	Dr. Swapna N
75	Swaliaha Shahama	Adaption and validation of the prospective and retrospective memory questionnaire to Malayalam	Dr. Goswami S P
76	Sweekriti	Variability in stuttering across tasks and its relationship with social anxiety	Mr. Freddy Antony
77	Syeda Sameera Taj	Voice characteristics of Uluma	Dr. Rajasudhakar R

Table 11: 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 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