**RESEARCH ACCOMPLISHMENTS**

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 sponsored by the institute from the AIISH Research Fund. Extramural research projects were funded by the Department of Science and Technology (DST) and Indian Council of Medical Research (ICMR).

**Completed Research Projects:** \_\_\_\_\_\_\_\_\_\_research projects worth a total cost of ` \_\_\_\_\_\_\_lakhs were successfully completed in different departments during the reporting year.Of these, \_\_\_\_\_project worth ` \_\_\_\_\_\_ was granted by ICMR and the remaining by the institute. The details are given below :

1. Assessment of different vestibular pathways in individuals with peripheral vestibular disorders. *Investigators:* Dr. Sujeet Kumar Sinha, Dr. Rajeshwari G. *Funding Agency:* AIISH. *Amount:* Rs. 3.06 lakhs.
2. Clinical evaluation of language fundamentals: Preschool, 2nded. for Kannada speaking English language learners. *Investigator*: Ms. Priya M.B. *Funding Agency:* AIISH. *Amount:* Rs. 3.06 lakhs.
3. Design and development of assistive device for museum access to persons with hearing impairment. *Investigators*: Mr. Ajish K. Abraham, Mr. Manohar N. *Funding Agency:* AIISH. *Amount:* Rs. 2.18 lakhs.
4. Development & piloting of computer based auditory-cognitive training module for individuals with cochlear hearing loss. *Investigator*: Dr. Ajith Kumar U. *Funding Agency:* AIISH. *Amount:* Rs. 5.00 lakhs
5. Development and standardization of screening checklist for Autism Spectrum Disorders (ASD) in Indian population. *Investigators*: Dr. K.C. Shyamala, Smt. Suchithra M. Gopal Krishna. *Funding Agency:* AIISH. *Amount:* Rs. 4.00 lakhs.
6. Development of low frequency word lists in Hindi and in Kannada. *Investigators*: Dr. Animesh Barman, Mr. Prashanth Prabhu, Dr. Vijay Kumar Narne, Mr. Niraj Kumar Singh. *Funding Agency:* AIISH. *Amount:* Rs. 5.92 lakhs.
7. Development of Prototypes for Electronic Publishing of Institute Journals. *Investigators*: Dr. Shijith Kumar C., Dr. K. Yeshoda, Mr. M. Nanjunda Swamy. *Funding Agency:* AIISH. *Amount:* Rs. 2.00 lakhs.
8. Digital tutorial for pre-reading skill: A supplement to the intervention module for preschool children with communication disorders. *Investigators*: Dr. Swapna, N., Dr. K.S. Prema, Dr. Y.V. Geetha. *Funding Agency:* AIISH. *Amount:* Rs. 5.41 lakhs.
9. Dizziness Index of Impairment in activities of daily living scale for Indian population. *Investigators*: Mr. Niraj Kumar Singh, Dr. Prawin Kumar, Dr. Animesh Barman. *Funding Agency:* AIISH. *Amount:* Rs. 3.80 lakhs.
10. Effect of frequency specific amplification in on speech perception individuals with ANSD. *Investigators*: Dr. Animesh Barman, Dr. Sujeeth Kumar Sinha, Mr. Prashanth Kumar. *Funding Agency:* AIISH. *Amount:* Rs. 3.31 lakhs.
11. Effects of semantic and syntactic treatments in bilingual stroke survivors. *Investigators*: Dr. G.N. Rangamani, Dr. K.S. Prema Rao. *Funding Agency:* AIISH. *Amount:* Rs. 5.94 lakhs
12. Intervention module for the management of speech & language skills for individuals with cerebral palsy. *Investigators*: Dr. Swapna N., Dr. R. Manjula, Dr. Y.V. Geetha. *Funding Agency:* AIISH. *Amount:* Rs. 5.72 lakhs.
13. Investigation of stuttering in bilingual individuals: Understanding its nature, assessment & treatment efficacy. *Investigators*: Dr. Santosh M, Ms. Ramya Maitreyee, Ms. Geetha M.P. *Funding Agency:* AIISH. *Amount:* Rs. 2.96 lakhs.
14. Modified Receptive and Expressive Language Test (M-RELT) for children between 3- 7 years. *Investigators*: Dr. Deepa M.S., Dr. Shyamala K.C., Dr. Deepthi K.J. *Funding Agency:* AIISH. *Amount:* Rs. 4.00 lakhs.
15. Prevalence and risk factors in primary school teachers of one district of Karnataka. *Investigators*: Dr. Usha Devadas, Dr. M. Santosh, Dr. B. Rajasshekhar. *Funding Agency:* AIISH. *Amount:* Rs. 3.16 lakhs.
16. Profiling cognitive-communication impairments in the elderly. *Investigators*: Dr. Deepa, M.S., Dr. Shyamala, K.C. *Funding Agency:* AIISH. *Amount:* Rs. 6.40 lakhs.
17. Relationship between electrophysiological sub-cortical processing of speech and behavioural tests of central auditory function in children with (Central) auditory processing disorder. *Investigators*: Dr. Prawin Kumar, Mr. Niraj Kumar Singh. *Funding Agency:* AIISH. *Amount:* Rs. 3.11 lakhs.
18. Relationship between sub-cortical and cortical encoding responses in children with (central) auditory processing disorders. *Investigators*: Dr. Prawin Kumar, Mr. Niraj Kumar Singh. *Funding Agency:* AIISH. *Amount:* Rs. 4.10 lakhs.
19. Sentence lists in Malayalam and in Telugu. *Investigators*: Mr. Sreeraj K., Mr. Kishore Tanniru, Dr. Vijay Kumar Narne, Ms. Chandni Jain, Dr. K.J. Rama Devi Sreenivas. *Funding Agency:* AIISH. *Amount:* Rs. 6.02 lakhs.
20. Speech characteristics in children with oral clefts-pre and post surgery: A longitudinal study. *Investigators*: Dr. M. Pushpavathi, Dr. H.V. Satish, Mr. Gopisankar R., Dr. Ajith Kumar U. *Funding Agency:* AIISH. *Amount:* Rs. 4.98 lakhs.
21. Study of co-articulation using F2 locus equation as a metric. *Investigators*: Dr. N. Sreedevi, Dr. M.S. Vasantha Lakshmi. *Funding Agency:* AIISH. *Amount:* Rs. 4.00 lakhs.
22. Development and validation of screening tool to identify learning disability (teacher administered screening tool). *Investigator*: Prema, K.S. *Funding Agency*: DST-CSI. *Amount:* Rs. 14 lakhs.

Ongoing Projects: \_\_\_\_\_ research projects worth ` \_\_\_\_\_\_ lakhs were ongoing in different departments during the reporting year. Of these, four projects worth ` ­­­­­\_\_\_\_\_\_ had extramural grants from DST and the remaining by the institute.The details are given below.

1. Cortical auditory evoked potentials as a measure of central auditory development in children with hearing impairment. *Investigators* : Dr. Vijayakumar Narne, Dr. Swapna N, Dr. Jayakumar T. *Funding Agency*: DST. *Amount*: Rs. 26.00 lakhs
2. Effect of auditory cognitive training on some auditory and speech perception skills in individuals with sensori-neural hearing loss. *Investigators*: Dr. Ajith Kumar U, Dr. Sandeep M. *Funding Agency*: DST. *Amount:* Rs. 18.33.
3. Effect of Personal music systems on hearing (Under fast-track scheme for young scientists). *Investigators*: Dr. Ajith Kumar U. *Funding Agency*: DST. *Amount:* Rs. 17.80.
4. A study of motor control in persons with mild and severe stuttering under conditions of motor stress. *Investigators*: Manjula, R., Venkatagiri, H. *Funding Agency: AIISH. Amount:* Rs. 6.94 lakhs.
5. Development of Manual for adult non-fluent and fluent aphasia therapy in Hindi, English, Tamil, Malayalam, Telegu and Marathi. *Investigators*: Prof. S.P. Goswami & Ms. Preethi T. Thomas. *Funding Agency*: DST. *Amount:* Rs. 15.43.
6. Feedback controls in individuals with stuttering. *Investigators*: Prof. Y.V. Geetha, Ms. Sangeetha Mahesh, Mr. Sundaraju, R., Ms. Sahana V. *Funding Agency*: DST. *Amount:* Rs. 11.68.
7. Assessment tool for early literacy skills in Malayalam speaking children: Phase-I. *Investigators*: Dr. Jayashree C. Shanbal, Ms. Sharon Susan Sam. *Funding Agency: AIISH. Amount:* Rs. 3.90 lakhs.
8. Auditory processing in stutterers: Using non-linguistic and linguistic stimulus. *Investigators*: Jayakumar, T., Geetha, Y.V., Vijay Kumar Narne. *Funding Agency: AIISH. Amount:* Rs. 2.94 lakhs.
9. Comparative study of phonology syntax & morphology in Indian sign language of deaf signers in narration & discourse mode. *Investigators*: Manjula, R., Gourishankar, Ramamurthy, L. *Funding Agency: AIISH. Amount:* Rs. 4.34 lakhs.
10. Comparison of muscle potentials of synergistic and antagonistic primary masticatory muscles as a function of age and task. *Investigators*: Manjula, R., Swapna, N. *Funding Agency:* AIISH*. Amount:* Rs. 2.57 lakhs.
11. Comparison of normal and pathological middle ears using multi-frequency tympanometry. *Investigators*: Sandeep M, Sharath K.S., Megha, Sundara Raju, H. *Funding Agency:* AIISH*. Amount:* Rs. 3.16 lakhs.

**Swallowing Lab**

1. Development & field trial of resource manual for oral sensori-motor functions in persons with neurological involvement. *Investigators*: Manjula, R., Jyothi N. *Funding Agency:* AIISH*. Amount:* Rs. 4.49 lakhs.
2. Development and field testing of low cost supportive and mobility aids appliances for persons with physical disability: Phase I. *Investigators*: Manjula, R., Siddesh, Harish Pai, Jayakaran, G.T. *Funding Agency:* AIISH*. Amount:* Rs. 2.28 lakhs.
3. Development of a manual on sign augmented speech in English for Indian context. *Investigators*: Venkatagiri, H. Manjula, R. *Funding Agency:* AIISH*. Amount:* Rs. 3.70 lakhs.
4. Development of grade level assessment test for primary grades of I to IV: Applicable for children with communication disorders. *Investigators*: Dr. G. Malar, Ms. S. Vijayalakshmi, Mr. K.R. Subramanya. *Funding Agency:* AIISH*. Amount:* Rs. 2.85 lakhs.
5. Development of hearing aid simulator. *Investigators*: Sujeet Kumar Singh, Animesh Barman, Guru, D.S., Vijayakumar Narne. *Funding Agency:* AIISH*. Amount:* Rs. 2.15 lakhs.

**Speech and Language Pathology Lab**

1. Development of online system for hearing screening. *Investigators*: Mrs. Chandni Jain, Prof. Ajish K. Abraham. *Funding Agency:* AIISH*. Amount:* Rs. 6.56 lakhs.
2. Early intervention module for parents of children with cleft lip and palate in Kannada: Phase I. *Investigators*: Pushpavathi, M., Pebbili Gopi Kishore, Gopisankar, R., Sathish V.H. *Funding Agency:* AIISH*. Amount:* Rs. 6.07 lakhs.
3. Neuro - physiology correlates of voice onset time in Kannada and Tamil speaking individual using N1 evoked potential. *Investigators*: Jayakumar, T., Vijaya Kumar Narne. *Funding Agency:* AIISH*. Amount:* Rs. 3.23 lakhs.
4. Pre-post voice characteristics in septoplasty. *Investigators*: Dr. T.K. Prakash, Mr. Gopi Kishore Pebbili. *Funding Agency:* AIISH*. Amount:* Rs. 4.10 lakhs.
5. Process evaluation and comparison of the modules of outreach service centres as a factor of type of volunteers engaged in the activity. *Investigators*: Savithri S.R., Manjula R., Sudharshan, H. *Funding Agency:* AIISH (Plan Grants). *Amount:* Rs. 6.62 lakhs.
6. Speech characteristics in children with oral clefts- pre and post surgery: A longitudinal study in Telugu. *Investigators*: Pushpavathi, M., Srinivas Gosla Reddy, Swathi Ravindra. *Funding Agency:* AIISH*. Amount:* Rs. 6.08 lakhs.
7. Survey of communication disorders by trained ASHA workers in the districts of Mysore, Mandya and Chamarajanagar (Phase 1 Level V). *Investigators*: Savithri S.R., Manjula R., Sudharshan, H. *Funding Agency:* AIISH(Plan Grants). *Amount:* Rs. 48.23 lakhs.
8. Temporal Ability Screening Test (TAST): Development and validation. *Investigators*: Dr. Asha Yathiraj, Dr. C.S. Vanaja. *Funding Agency:* AIISH*. Amount:* Rs. 7.45 lakhs.
9. Validation of electro glottographic patterns in voice disorders using stroboscopy. *Investigators*: Dr. N. Sreedevi, Mr. Gopi Kishore Pebbili, Dr. T.K. Prakash. *Funding Agency:* AIISH*. Amount:* Rs. 5.90 lakhs.
10. Auditory and multisensory processing in persons with stuttering. *Investigators*: Santosh, M., Ajith Kumar, U. *Funding Agency*: DST. *Amount:* Rs. 13.92 lakhs.

**New Research Projects:** Fourteen research projects worth `\_\_\_\_\_\_\_\_ lakhs were initiated in different departments during the reporting year. Of these, \_\_\_\_\_\_\_\_projects worth \_\_\_\_\_\_\_ lakhs had extramural grants from DST and the remaining by the institute. The details are given below.

1. Development of Speech Rhythm (FO) in Kannada speaking children. *Investigators*: Savithri, S.R. and Sreedevi, N. *Funding Agency*: DST. *Amount:* Rs. 30.14 lakhs.
2. AIISH Survey of fluency disorders. *Investigators*: Dr. Y.V. Geetha, Mrs. Sangeetha Mahesh. *Funding Agency:* AIISH*.* *Amount:* Rs. 4.03 lakhs.
3. An exploratory study of tinnitus in Indian context. *Investigators*: Dr. K. Rajalakshmi, Mr. Vinaya K.C. Manchaiah, Prof. David Baguly, Prof. Gerhard Andersson. *Funding Agency:* AIISH*. Amount:* Rs. 4.03 lakhs.
4. Auditory brain plasticity in carnatic vocalists, instrumental musicians and non-musicians. *Investigators*: Dr. K. Rajalakshmi. *Funding Agency:* AIISH*. Amount:* Rs. 4.03 lakhs.
5. Development and validation of a computerized screening tool for infant cry. *Investigators*: Dr. N. Sreedevi, Dr. Jayashree C. Shanbal, Mr. Arunraj K. *Funding Agency:* AIISH*. Amount:* Rs. 4.43 lakhs.
6. Development and validation of pragmatic skill checklist in children with autism spectrum disorder. *Investigators*: Dr. K.C. Shyamala. *Funding Agency:* AIISH*. Amount:* Rs. 4.03 lakhs.
7. Development and validation of video manual for different management techniques in children with autism spectrum disorders. *Investigators*: Dr. K.C. Shyamala. *Funding Agency:* AIISH*. Amount:* Rs. 4.03 lakhs.
8. Development of toy usage index for children with developmental disabilities. *Investigators*: Dr. S. Venkatesan, Mr. Yashodhara Kumar G.Y. *Funding Agency:* AIISH*. Amount:* Rs. 3.01 lakhs.
9. Effectiveness of computer based auditory training in children with central auditory processing disorders: Evidence from electrophysiological study. Investigators: Dr. Prawin Kumar, Mr. Niraj Kumar Singh. *Funding Agency:* AIISH*. Amount:* Rs. 4.03 lakhs.
10. Evaluation of digital signal processing features in hearing aids with ear to ear synchronization. *Investigators*: Ms. Geetha C., Mr. Kishore Tanniru. *Funding Agency:* AIISH*. Amount:* Rs. 4.03 lakhs.
11. Is Acceptance Noise Level (ANL) a deciding factor of tinnitus management using hearing aid? *Investigators*: Dr. Hemanth N., Dr. Vijay Kumar Narne, Mr. Jijo P.M. *Funding Agency:* AIISH*. Amount:* Rs. 4.03 lakhs.
12. Lexical semantic processing in persons with aphasia: Correlational study of psycholinguistic and neurolinguistic measures. *Investigators*: Mr. Abhishek B.P., Dr. K.S. Prema *Funding Agency:* AIISH*. Amount:* Rs. 4.03 lakhs.
13. Morphosyntactic processing in dyslexia: Application of an ERP measure. *Investigators*: Dr. Jayashree C. Shanbal, Ms. Mamatha N.M., Mr. Gopi Sankar R. *Funding Agency:* AIISH*. Amount:* Rs. 4.03 lakhs.
14. Nature of non-explicit declarative and procedural memory systems in pre-adolescents with specific language impairment: Examining the post scripts of procedural deficit hypothesis. *Investigators*: Mr. Kuppuraj S., Dr. K.S. Prema. *Funding Agency:* AIISH*. Amount:* Rs. 4.03 lakhs.
15. Optimizing the response filter setting for acquisition of ocular vestibular evoked myogenic potential elicited by air-conduction tone bursts of 500Hz. *Investigators*: Mr. Niraj Kumar Singh, Dr. Animesh Barman. *Funding Agency:* AIISH*. Amount:* Rs. 4.03 lakhs.
16. Relationship between behavioural measures and aided cortical potential responses in children with hearing impairment (6 months to 5 years). *Investigators*: Dr. Prawin Kumar, Ms. C. Geetha. *Funding Agency:* AIISH*. Amount:* Rs. 4.03 lakhs.
17. Standardization of a discourse analysis acale for conversation, narration and picture description in Kannada (DAS). *Investigators*: Dr. Hema N., Dr. K.C. Shyamala. *Funding Agency:* AIISH*. Amount:* Rs. 4.03 lakhs.
18. Status report of speech and hearing professionals graduated from AIISH: National and global scenario. Investigators: Mr. S. Ramkumar, Dr. S.P. Goswami. *Funding Agency:* AIISH*. Amount:* Rs. 4.50 lakhs.
19. Stories of aphasia: Exploring paths to recovery in India. *Investigators*: Dr. S.P. Goswami, Dr. Julie A. Hengst, Ms. Sonal V. Chitnis, Dr. Brajesh Priyadarshi, Dr. Neeraja Karathi, Ms. Pinky Singh. *Funding Agency:* AIISH*. Amount:* Rs. 11.99 lakhs.
20. Validation of feeding handicap index in children with intellectual disability and autism spectrum disorders. Investigators: Swapna N. *Funding Agency:* AIISH*. Amount:* Rs. 4.03 lakhs.
21. Simple reaction time and P300 measures as potential indicators of cognitive linguistic processing. *Investigators*: Manjula, R. Manjula, P. *Funding Agency*: DST. *Amount:* Rs. 6.00 lakhs.
22. Development and standardization of high risk register in ASD children. *Investigators*: Shyamala, K.C. *Funding Agency*: ICMR. *Amount:* Rs. 6.32 lakhs
23. Association of psychosocial and communicative behaviour related to genes in children with ASD in Indian population. *Investigators*: Shyamala, K.C. *Funding Agency*: ICMR. *Amount:* Rs. 8.01 lakhs.

**Doctoral Research**

Totally, \_\_\_\_\_\_\_\_\_\_\_\_\_completed their doctoral research during the reporting year and among them \_\_\_\_\_\_\_\_ awarded the degree and the remaining one was under evaluation. The details are given in table 12.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Topic** | **Guide** | **Status** |
| Hemanth N. | The Representation of Amplified Speech at Different Levels of Auditory Pathway in Individuals with Sensorineural Hearing Loss | Manjula P. | Awarded |
| Pravesh Arya  | Speech and Non-Speech Characteristics of Recovered and Relapsed Persons with Stuttering Following Treatment  | Geetha Y.V. | Awarded |
| Kuppuraj S. | Relationship Between Procedural Memory Deficits and Specific Language Impairment: An Exploratory Study  | Prema K.S. | Awarded |
| Gnanavel K. | Effect of Surgery on Speech Characteristics in Individuals with Velopharyngeal Dysfunction: Pre-Post Operative Comparison  | Pushpavathi M. | Submitted |
| Prarthana S. | Mental Lexicon of Nouns and Verbs in Adult Speakers of Kannada  | Prema K.S. | Submitted |
| Ravi Sunil Kumar  | An Event Related Brain Potentials Study of Language of Language Processing in Kannada-English Bilingual Aphasics  | Shyamala K.C. | Submitted |

In addition, \_\_\_\_\_\_\_ students were pursuing theirdoctoralresearch in different departments of the institute during the reporting year. The details are given in table 13.

|  |  |  |
| --- | --- | --- |
| Name  | Topic | Guide |
| Archana G. | Effect of Speech Language Therapy on Activity and Participation in Persons with Aphasia Due to Cerebro Vascular Accidents  | Goswami S.P. |
| Chandni Jain  | Relationship Among Psychophysical Abilities Speech Perception in Noise and Working Memory in Individuals with Normal Hearing Sensitivity Across Different Age Groups  | Ajith Kumar U. |
| Devi N.  | Auditory Evoked Potential Correlates of Speech and Music in Individuals with and without Musical Abilities  | Ajith Kumar U. |
| Ganapathi M.K. | The Effect of Age and Noise on Acoustic Change Complex  | Manjula P. |
| Geetha C. | Optimization of Compression Parameters in Hearing Aids Using Aided Audibility Index  | Manjula P. |
| Gopi Sankar R. | Some Acoustic and Perceptual Parameters of Cleft Palate Speech: A Pre-Post Operative Condition  | Pushpavathi M. |
| Jithin Raj B. | Auditory, Neurophysiological and Cognitive Factors of Hearing aid, Acclimatization in Individuals with Cochlear Hearing Loss  | Sandeep M. |
| Mahesh BVM | Influence of Second Language (English) Proficiency on Speech Motor Variables in Bilinguals who Stutters  | Manjula R. |
| Maria Grace Treasa | Emergence of Expressive Grammatical Morphology in Malayalam-Speaking Children with and without Language Impairment  | Shyamala K.C. |
| Megha | Perceptual, Cognitive and Neurophysiological Bases of Hearing Aid Acclimatization  | Sandeep M. |
| Mili Mary Mathew  | Development of Gesture and Speech in Typically Developing Infants  | Manjula R. |
| Mithila Poonacha  | Comparison of Cognitive Linguistic Demand Using Discourse in Persons with Traumatic Brain Injury and Cerebro-Vascular Accident  | Goswami S.P. |
| Navya A. | Construction of Nasality Severity Index  | Pushpavathi M. |
| Niraj Kumar Singh  | Frequency Tuning of Ocular Vestibular Evokled Myogenic Potentials in Healthy Individuals and Individuals with Some Vestibular Pathologies  | Animesh Barman  |
| Pebbili Gopi Kishore  | Efficacy of Eclectic Voice Therapy Program in the Treatment of Hyperfunctional Voice Disorders  | Pushpavathi M. |
| Preethi T. Thomas  | A Comparative Study on Content and Process of Semantic Memory in Malayalam Speaking Persons with Dementia and Aphasia  | Goswami S.P. |
| Priya M.B.  | Test Battery for Phonological Representations in Kannada Speaking Children  | Manjula R. |
| Priyanka V.  | Temporal Processing, Speech Perception in Noise and Auditory Working Memory in Vocalists, Violinists and Non-Musicians  | Rajalakshmi K. |
| Rajasudhakar R. | Voicing Periods in Daily and Weekly Speech of Primary School Teachers: Occupational Voice Measurements (Time Dose) | Savithri S.R. |
| Ramya V. | Effect of Temporal Resolution Training in Older Adults with Temporal Processing Deficits  | Asha Yathiraj  |
| Reeny Roy  | Emerging Phonetic Behaviour in Hindi and Malayalam Speaking Children in the Age Range 4 to 12 Months: A Cross Linguistic Study  | Sreedevi N. |
| Reuben Jebaraj | The Influence of Hearing Aid Fitting Strategies on Speech Recognition in Individuals with Sloping Hearing Loss  | Manjula P. |
| Roshni Pillai  | Auditory, Visual and Auditory-Visual Perception in Children with Learning Disability  | Asha Yathiraj  |
| Sahana M. | Development of Deep Test of Articulation for Pressure Consonants in Kannada for Persons with Cleft Lip and Palate  | Pushpavathi M. |
| Sangeetha Mahesh | Linguistic Variability in Mono and Bilingual Children with Stuttering | Geetha Y.V. |
| Sharath Kumar K.S. | Effect of Noise Reduction Algorithm (NRA) in Hearing Aids on Acoustic and Perceptual Measures  | Manjula P. |
| Shylaja K. | Test Battery for Symbolic Communication Skills in 2-4 year Typically Developing Children  | Manjula R. |
| Sreeraj K. | Comprehensive Audiological Characterization of Tinnitus in Individuals with Normal Hearing  | Manjula P. |
| Usha Shastri  | Auditory Perceptual Training of Non-Native Speakers: Role of Auditory and Cognitive Factors  | Ajith Kumar U. |
| Yashaswini R. | Presymbolic Dyadic Communication Behaviors in Typically Developing Children and Children with Intellectual Impairments (06-1.6 years): A Comparative Study) | Manjula R. |
| Yashomathi  | Comparison of Syntax in Indian Sign Language between Two Dialects  | Manjula R. |

**Postgraduate research**

The postgraduate students of the institute carry out research as a part of their course work. The details of completed postgraduate research works as a part of M.Sc. Audiology and M.Sc. Speech - Language Pathology, are given in table 14 and the ongoing postgraduate research works pertaining to M.Sc. Audiology, M.Sc. Speech - Language Pathology and M.S.Ed. in table 15.

**Completed postgraduate research**

|  |  |  |
| --- | --- | --- |
| **Candidate** | **Topic** | **Guide** |
| Abdul Azeez | Aerodynamic and acoustic measure of voice in persons with Parkinson’s disease | Jayakumar T. |
| Adarsh | Dichotic rhyme test in Hindi: A normative data on adults | Rajalakshmi K. |
| Anjali Joseph | Comparison of tongue contours in native and non native speakers of Kannada | Sreedevi N. |
| Ansu Abraham | Comparison of tongue contours in children, adolescents and adults using ultrasound | Sreedevi N. |
| Ansu Elisa Thomas | Relationship between language abilities and false belief understanding in typically developing 3-6 year old children’ | Prema K.S. |
| Aparna M Nair | Effect of auditory attention on contralateral suppression of DPOAEs | Ajith Kumar U |
| Archana Rajan | Theory of mind vis-à-vis communication in typically developing preschoolers | Prema K..S. |
| Arjun | Speaker identification using fricatives in Kannada speaking individuals: A preliminary study | Hema N. (Co-Guide) |
| Astha Khanna | Speech evoked cortical potential in children with normal hearing | Prawin Kumar |
| Baviskar Priya Kishor | Effect of working memory on hearing aid benefit in elderly | Ajith Kumar U |
| Chaitanya | Effectiveness of voice therapy in subjects with vocal nodule | Jayakumar T. |
| Chithra S.S | Effect of personal music system on cervical and ocular reflexes mediated via otolith organs | Niraj Kumar Singh |
| Deepika | Laterality in children with stuttering | Geetha Y.V. |
| Deepika J | The relationship between behavioural outcome and cortical responses in hearing aid users | Manjula P. |
| Deepika Kanwar  | Verbal short term memory & Phonological processing in verbal memory  | Jayashree C. Shanbal |
| Dhananjay Rachana | International outcome inventory for hearing aids (IOI-HA) in Hindi – Adaptation from (POP-HA) English | Rajalakshmi K. |
| Dhivya D. | Comparative Study of Effectiveness of Tangible vs. Virtual Technologies in Instruction of Primary SchoolChildren with Hearing Impairment | Malar G. |
| Greeshma | Voice characteristics in bus conductor | Jayakumar T. |
| Imran Ansari | Effect of pre-voicing ABR in individual with sensorineural hearing loss | Animesh Barman |
| Indira C.P | Abhinayadarpanam as used in bharathanatya as a means for improving balance | Sandeep M. |
| Jitesh Prasad Sahoo | Effect of tinnitus on speech perception in noise, temporal perception and auditory working memory | Chandani Jain |
| Juhi Kidwai | Oral definitions in children with Learning disability | Jayashree C.Shanbal |
| Juhi Virli | Aided cortical assessment in children with severe to profound hearing impairment | Sandeep M |
| Jyoti | Comparison of rectified versus unrectified method of eVEMP in individuals with meniere’s disease | Chandni Jain |
| Kanaga Subramaniyam K. | Survey of Teacher Competencies for Use and Maintenance of Hearing Aids and Its Implications in Learning Environment | Malar G. |
| Kanchan K | Frequency specificity of NB-Chirp ABR and it’s correlation with behavioral thresholds | Sreeraj K |
| Krishna A.R. | Developing video training module for the evaluation of pragmatic skills  | Prema K.S. |
| Kumaran T | Prevalence and risk factors of tinnitus in individuals with ear and hearing related problems | Geetha C |
| Lakshmi M.S | Is aided cortical auditory evoked potentials a tool for validating hearing aid fitting in children? | Vijayakumar Narne |
| Liji | Laryngeal dynamics in weight holding tasks | Geetha Y.V. |
| Mamatha S | Optimization of frequency compression for persons with sloping hearing loss – Application of SII | Manjula P. |
| Manjula P. V.  | Comparison of Natural, Structured and Combined Methods of Teaching Language to Preschool Children with Hearing Impairment | Malar G. |
| Manjunath Y.N | Misbelieves and unscientific practices in the area of hearing loss: A survey in rural and tribal | Mamatha N.M |
| Maya Jain | Cognitive linguistics assessment protocol for Hindi speaking children (CLAP-C) in the age range of 4-8 years: an attempt at adaptation | Deepa M. S. |
| Mercy Deepthi | Inflectional and derivational words Processing in L2: A masked priming study in Kannada-English bilinguals | RajaSudhakar R. |
| Merin Mathews | Effect of syllabic compression and dual compression on the identification of hearing aid processed music | Devi N. |
| Nandita .S. Upadhyaya | Discourse Analysis in Individuals with Parkinson’s Disease | Swapna N. |
| Neethu Thoduvayil | Tongue contours in the production of vowels in hearing impaired children: An ultrasound study | Sreedevi N. |
| Neethu Yashodharan | Mother-child interactions in ASD | Shyamala K. C. |
| Nikhil Ben Vettath | The effect of caffeine on ocular VEMP | Kishore Tanniru |
| Phebe Evangeline Sajja | Singer’s Formant in Indian Classical Singers of Western Music | Yeshoda K. |
| Pragnya Bharadwaj | Comparison between frequency tuning and frequency – Amplitude ratio of cervical vestibular evoked myogenic potential for identification of meniere’s disease | Niraj Kumar Singh |
| Raja Rajan R | The independent effect of digital signal processing schemes of binaural wireless hearing aids on speech intelligibility in noise | Geetha C |
| Rajasekhara Goud R. | Appraisal of Physical environment of Inclusive schools for Children with Hearing impairment in Mysore | Palnaty Vijetha |
| Rajini | Code mixing & code switching in Telugu bi/multilinguals | Shyamala K. C. |
| Rakesh Gatla | Effect of pre-voicing on speech ABR across different age groups in individuals with normal hearing sensitivity | Animesh Barman |
| Ramiz Malik M | Horizontal localization & speech identification in noise in children with binaural hearing aids | Devi N. |
| Ravi Kumar | Study of Utility of Teaching Learning Material in Instruction of Mathematics for Preschool Children with Hearing Impairment. | Priti Venkatesh |
| Renjini Annie Mathew | Intra- and Inter-Rater Reliability of Voice Quality Assessment using GRBAS Scale by SLPs | Yeshoda K. |
| Rinju Singh | Bilingual Language Acquisition: A review | Shyamala K.C. |
| Roja S | Combined effect of rate and noise on compression release time in sentence recognition | Hemanth N. |
| Rojina Devi N | Development of low frequency word lists for speech identification test in Manipuri language | Sreeraj K. |
| Sabarish A | Effect of hearing aid processed speech on perception in individuals with auditory neuropathy spectrum disorder (ANSD) | Jijo P.M. |
| Sandhya Koteshwara | Early developmental indicators in ASD | Shyamala K. C. |
| Saryu Sharma | Linguistic pattern analysis of writing in children with Learning disability | Jayashree C.Shanbal |
| Satish Kumar J | Verbal memory in children with Down Syndrome | Deepa M.S. |
| Saurabh Kumar Mishra | Revision of Practice-Teaching Evaluation Format for Special Educator-Trainees in the Field of Hearing Impairment | Malar G. |
| Sharon Mathew | Lexical ambiguity in children with Learningdisability | Jayashree C.Shanbal |
| Shilpashree P | eVEMP & oVEMP findings in noise induced hearing loss individuals | Sujeet Kumar Sinha |
| Shrusti | Semantic Pragmatic Disorder in Autism Spectrum Disorder | Shyamala K.C.  |
| Soujanya J | Feasibility of binaural recordings of oVEMP and its efficacy in diagnosis of some vestibular pathologies | Niraj Kumar Singh |
| Srushti Shabnam | Development and Validation of Feeding Handicap Index  | Swapna N. |
| Suhani Sharma | Auditory localization: Investigation and comparison of the effects of noise in normal hearing children and adults | Rajalakshmi K. |
| Suman Kumar | Ocular vestibular evoked myogenic potential (oVEMP) in school going children: Indian perspective | Sujeet Kumar Sinha |
| Swathi A. | Effect of Altered Auditory Feedback on Speech Rhythm in Individuals with Stuttering  | Santosh M. |
| Swathi S | Acoustical and perceptual analysis of speech produced in noise | Ajith Kumar U |
| Tejaswini G | Speech-evoked cortical potential in children with moderate to moderately-severe sensorineural hearing loss | Prawin Kumar |
| Vani | The effect of fasting on various acoustic and perceptual parameters on voice | Geetha Y.V. |
| Zebu Yohannan Thampi | Auditory brainstem responses inn toddlers (2-3 years) – A study on maturation of tone burst ABR | Mamatha N.M |
| ZoramSiami | Vocal Hygiene Practices in Mizo Choral Singers | Yeshoda K. |

**Ongoing postgraduate research**

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| --- | --- | --- |
| **Candidate** | **Topic** | **Guide** |
| Aditi Rao  | A Treatment manual in English for Children with ASD | Shyamala K.C. |
| Akhil Mohanan | Brainstem encoding and psychoacoustic temporal measures in individuals with diabetes mellitus | Prawin Kumar |
| Akshay M  | Influence of musical experience on psychophysical tuning curves and contralateral suppression of DPOAES | Devi N |
| Amritha G | Comparison of difference limen for frequency, intensity and duration with and without amplification device | Devi N  |
| Anita Naitee Abraham  | Study of Vowel Space in Tribal Languages  | Sreedevi N. |
| Anjali V Bhat | Validation of the screening test for auditory processing (STAP) on children aged 6 to 8 years | Asha Yathiraj |
| Aparna. L.V. | Code mixing and code switching in Malayalam-English bilingual children | Jayashree C. Shanbal |
| Bebek Bhattarai | Monosyllabic word identification test in Nepali for children | Asha Yathiraj |
| Bhuvana S | Effect of spectro-temporal enhancement on speech perception in individuals with ANSD | Animesh Barman |
| Darshini. K. J. | Phonological Encoding in Persons with Stuttering through Phoneme Monitoring Tasks | Swapna N. |
| Deepthi Ann Joy | Speech Motor Characteristics in 4-12 year old Kannada Speaking Children  | Jayakumar T. |
| Divya Seth | Inference revision processing in individuals with aphasia  | Jayashree C. Shanbal |
| Girish K.S. | Standardization of Action Naming Test and Assessment of Verb Retrieval Abilities in Bilingual Aphasia  | Shyamala K.C. |
| Gunasagar S.M.  | Awareness of Morphological Complexity in Words and its Impact on Reading  | Shyamala K.C. |
| Himanshu Kumar Sanju | Comparison of event related potential & psychoacoustic measures in experienced musicians  | Prawin Kumar |
| Husna Firdose | Impact of advancing age on frequency tuning of ocular vestibular evoked myogenic potential | Niraj Kumar Singh |
| Jahnvi Prasad, S.  | Comparison of dysphonia severity index in pre-pubertal female trained Carnatic classical singers and non-singers | Geetha Y.V. |
| Jithin P Jacob  | Validation of hearing aid optimization procedure for bimodal cochlear implant users | Asha Yathiraj  |
| Jyothsna Krishnan | Comparison of Vowel-Space Across Age Groups in Malayalam  | Sreedevi N. |
| Kapali Nayaka | Acoustic characteristics of vowels in dialects of Kannada  | Savithri S. R. |
| Kavya S | Cepstral analysis of normal and dysphonic voice | Gopikishore Pebbili |
| Kiran N | Perception of hearing aid processed speech in adverse listening condition | Sandeep M. |
| Lakshmi Prabha | A Survey on Teachers’ Knowledge About HearingImpairment And Referral Services | Vijetha P. |
| Madhuri Sharma | Effect of spectro-temporal enhancement on speech perception in individuals with cochlear hearing loss | Animesh Barman |
| MadhuShree D.C. | Survey of Accessibility to Students with HearingImpairment in Inclusive Educational Setups. | Alok Kumar Upadhyay |
| Malavika.A.A | An Investigation of the Feeding Problems in Children with Down Syndrome | Swapna N. |
| Manisha Hegde | Formant Frequencies of vowels in Tulu  | Savithri S. R. |
| Manjula C | Periodicity coding in children who are learning carnatic music (vocal) | Rajalakshmi K. |
| Mohammed Hasheem N | Effect of compression time settings, noise & presentation level on aided speech perception in elderly individuals with temporal processing deficits | Jijo P M |
| Muhammad Thareeque PK | Prevalence of hearing loss & audiological characteristics in the elderly population | Sujeet Kumar Sinha |
| Navya B N | Effect of gain and digital noise reduction in hearing aid on growth rate of annoyance in good and poor hearing aid performers | Hemanth N. |
| Nazmin A.A.  | Development of Voice Screening Test (Self-Report & Observation) for School Going Children  | Jayakumar T. |
| Neelesh Benet | Correlation of psychophysical, electrophysiological and working memory measures in musicians and non musicians | Rajalakshmi K. |
| Niharika, M.K. | Prime Type and Lexical Retrieval in Kannada-English Bilingual Adults | Prema K.S. |
| Nirmala J | Audio-vestibular findings in individuals exposed to occupational noise | Sujeet Kumar Sinha  |
| Padmashree B | An evaluation of the influence of temporal fine structure sensitivity on hearing aid outcome | Manjula P.  |
| Pavan Kumar Shukla | Relationship between Aided Audiological Abilities andAcademic Achievement of Children with hearingimpairment | Shobha N.OdunavarCo-Guide: Mamatha. N.M |
| Pooja Umesh  | Analysis of Voice Using Cepstral Co-efficients in Carnatic Singers  | Rajasudhakar R.  |
| Preeta Singh | Speech-in-speech recognition - effect of language uncertainty | Geetha C |
| Priyanka Jaisinghani | Efficacy of SNR loss as a clinical tool for hearing aid prescription | Manjula P.  |
| Radhakrishnan K.V. | Survey of Competency of Caregivers and SpecialEducators in Understanding and Utilizing Informationfrom Clinical Reports | Shobha N.OdunavarCo-Guide: Mamatha. N.M |
| Rakesh C.V. | Relationship between clients self perceives stuttering severity and clinician rated stuttering severity in Kannada-English bilingual adults who stutter  | Santosh M. |
| Rakesh PG | Effect of spectro-temporal enhancement on speech perception | Animesh Barman |
| Rekha D.  | Colour-object Interference in 5-8 year Old Kannada Speaking Children: A Stroop Effect  | Rajasudhakar R. |
| Rofina Babin  | Manual for Linguistic Based Therapy Approaches for Speech Language Therapy in Malayalam  | Sreedevi N. |
| Sandra Sebastian  | Concept formation and Language Performance in late Talkers and Typically Developing Children | Deepa M.S. |
| Saryu Abraham  | Development of Manual for PHC Doctors on Voice Disorders  | Jayakumar T. |
| Shaik Gulab Jan | Effectiveness of Teaching-Learning Material ininstruction of Environmental Science to Primary Schoolchildren with Hearing Impairment. | Dr.Alok Kumar Upadhyay |
| Shreyank P Swamy | Coarticulatory effects of vowel on consonants in white noise Or Role of coarticulatory cues in noise | Sandeep M.  |
| Shrilekha, B.  | Prime type and lexical retrieval in normal healthy aging bilingual adults | Prema K.S. |
| Sneha S | Effect of deep band modulation and noise on phrase perception in older adults with and without hearing loss | Hemanth N |
| Som Krishan | Screening Checklist for Post School Transition ofAdolescents with Hearing Impairment | Malar G. andFreddy Antony |
| Sonam Belliappa | Measure of emotional anxiety and attentional bias to emotional threat words using emotional Stroop task in persons with stuttering | Geetha Y.V. |
| Sowmya M | Test retest reliability of mismatch negativity for speech stimuli | Sandeep M. |
| Sujitha B.S. | Cepstral analysis of voice in adults in the age range of 20-40 yrs | Gopikishore Pebbili |
| Suman S | Establishing a correlation between speech ABR and speech perception abilities in noise in children with carnatic vocal musical training | Rajalakshmi K.  |
| Supreeth R | Effect of meditation on auditory evoked cognitive potentials (P300 and MMN) | Chandni Jain |
| Swathi CS | Effect of music training on masking paradigm | Devi N  |
| Syeda Aisha | Optimizing the angle of gaze elevation for recording ocular vestibular evoked myogenic potential | Niraj Kumar Singh |
| Tanuja Singh | Study of Influence of Co-Curricular Training in VisualArts on Development of Pre-Academic Skills in PreschoolChildren with Hearing Impairment | Malar G. |
| Thanzeem Razak | Phonological awareness skills and reading in Malayalam-English biliterate children | Jayashree C. Shanbal |
| Thithi Jain  | Prime Type and Lexical Retrieval in Hindi-English Bilinguals | Prema K.S. |
| Tilling.Riniya | Quality of Life of Children with Cerebral Palsy | Swapna N. |
| Tulsi Sao | Effects of hormonal changes on temporal perception and speech perception in noise in females | Chandni Jain |
| Usha Y | Development of norms for singing voice quality using singing power ratio for the female pre-pubertal trained and untrained classical singers, and non-talented singers | Geetha Y.V. |
| Vaishnavi Bohra  | Effect of different speech stimuli on acoustic change complex in musicians | Prawin Kumar |
| Vineetha CV | Correlation between cochlea, brainstem and auditory cortical pathways in younger and middle aged adults | Sujeet Kumar Sinha |
| Vinodhini P | Application of envelope difference index in sentence recognition and speech quality in individuals with hearing impairment | Geetha C. |
| Wavhal Rohan Sudhakar | Effect of tone burst polarity on ocular vestibular myogenic potential | Niraj Kumar Singh |
| Zeena VP | Cochlear and neural functions in industrial workers exposed to occupational noise | Sreeraj K |

**Scientific Presentations**

The faculty, staff and students of the institute presented \_\_\_\_\_ scientific papers at international and \_\_\_\_ at national conferences during the reporting year. The details are given below :

1. Ajish K. Abraham. (2014). *Assistive technology to override poor acoustics for museum visitors with hearing impairment*. Paper presented at the National Symposium on Acoustics, Mysore, India.
2. Akhil Mohanan, Himanshu Kumar & Prawin Kumar. (2014). *Brainstem encoding of speech in individuals with diabetes mellitus type-electrophysiological study*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal,India.
3. Akhil Mohanan, Vibhu Grover & Prawin Kumar. (2014). *Effect of reverberation time and SNR on speech perception: An investigation in a virtual classroom*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
4. Akriti, K., Revathi, R., Shezeen, A.G. & Prashanth Prabhu P. (2014). *Effect of visual attention on contralateral suppression of acoustic reflexes*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
5. Akshatha, V., Geetha, Y.V. & Sahana, V. (2015). *Effects of altered auditory and sensory feedback on stuttering*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
6. Akshay, M., Rakshith, S. & Sangeetha, M. (2014). *Application of automatic speech recognition in communication sciences and disorders.* Paper presented at the National Symposium on Acoustics, Mysore, India.
7. Amulya, R., Hamshi, G. & Abhishek, B. P. (2015). *Testing Facilitation and Suppression Hypotheses of Lexical Semantic Activation in Persons with Anomic Aphasia.*Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
8. Animesh Barman, Sujeet Kumar Sinha & Prashanth Prabhu, P. (2014). *Amplification strategy to enhance speech perception in individuals with auditory neuropathy spectrum disorder*. Paper presented at the47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
9. Anumitha, V., Marget, V. & Abhishek, B. P. (2015). *Is automatic mechanism of lexical retrieval intact in persons with Broca’s aphasia*.Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
10. Asha Yathiraj, Vanaja, C.S. & Muthu Selvi, T. (2014). *Cut-off criteria to classify children as having auditory processing disorders*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
11. Chandni Jain, Ajith Kumar, U., Vijayakumar Narne & Yashaswini. (2014). *Cognitive processing and peripheral sensory coding in individuals with normal hearing sensitivity*. Paper presented at the National Symposium on Acoustics, Mysore, India.
12. Chandni Jain & Ajith Kumar, U. (2014). *Age related differences in some psychoacoustical abilities, speech perception in noise and working memory*. Paper presented at the National Symposium on Acoustics, Mysore, India.
13. Devi, N. & Ajith Kumar, U. (2014). *Effect of short-term musical training on auditory cortical responses*. Paper presented at the National Symposium on Acoustics, Mysore, India.
14. Dhathri, D., Nike, G., Ajith Kumar, U. &Santosh, M. (2014). *Brainstem encoding of dynamically changing virtual pitch in harmonic complexes*. Paper presented at the National Symposium on Acoustics, Mysore, India.
15. Dhatri S. Devaraju, Santosh, M. & Ajith Kumar, U. (2015). *Brainstem encoding of dynamically changing virtual pitch in adults who do and do not stutter*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
16. Divyashree, K.N., Neeraja Raju, Akhilandeshwari, S. & Prashanth Prabhu, P. (2014). *Efferent auditory system induced changes on acoustic reflex latency measures*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
17. Geetha, C. & Manjula, P. (2014). *Comparison of the effective compression ratio and the nominal compression ratio in hearing aids*. Paper presented at the National Symposium on Acoustics, Mysore, India.
18. Geetha, Y.V., Sangeetha, M., Sundaraju, R., Sahana, V. & Akshata, V. (2015). *Effects of altered auditory and sensory feedback on stuttering*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
19. Gnanavel, K., Pushpavathi, M. (2014). *Angulina nishkriyathege shasthram chikithseya palithamshada varadi*. Paper presented at the 10thKannada Vignana Sammelana*,* University of Mysore, Mysore, India.
20. Goswami, S.P. (2015). Computerized version of Manual for Adult Aphasia Therapy in Kannada (CV-MAAT-K). Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
21. Gupta, S. K. & Venkatesan, S. (2015). *Training of verbal and symbolic working memory in children with learning disabilities*. Paper presented at the 41stNationalAnnual Conference of the Indian Association of Clinical Psychologists, Ahmedabad, India.
22. Hamshi, G., Amulya, R. & Abhishek, B. P. (2015). *Linguistic and non-linguistic priming in persons with anomic aphasia*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
23. Harish, K. & Anjana, K. (2015). *Working memory and its importance in education of children with hearing impairment*. Paper presented at the International Conference of the National Convention of the Educators of the Deaf, Orissa Chapter, Bhubaneswar, India.
24. Harish, K. (2014). *Importance of working memory in inclusive classroom*. Paper presented at the International Conference on Capacity Building Programme for Teacher Educator: A Global Scenario, Bangalore, India.
25. Himanshu Kumar Sanju, Vaishnavi Bohra, Astha Khanna, & Prawin Kumar. (2014). *Neural representation of different speech stimuli at cortex in individuals with normal hearing*. Paper presented at the National Symposium on Acoustics, Mysore, India.
26. Himanshu Kumar Sanju & Prawin Kumar (2014). *Self-assessment of noise induced hearing impairment in traffic police and bus-drivers: Questionnaire based study*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
27. Irfana, M. & Sreedevi, N. (2014). *Transition of coarticulation from prelinguistic to early linguistic period.* Paper presented at theNational Symposium on Acoustics, Mysore, India.
28. Irfana, M. & Sreedevi, N. (2015). *Tongue dynamics of childhood apraxia of speech: A case study*. Paper presented at the Seminar on Language Disorders and Therapeutic Procedures of Differently abled Children, Trivandrum, India.
29. Kadambari Naniwadekar,& Sreevidya. (2015). *Impact of drama as a therapy for teaching social- communication skills in children with autism*. Poster presentation at the South Asian International Conference on Autism, New Delhi, India.
30. Kalai Selvi V.T. (2014). *Long Term Evolution (LTE): A review*. Paper presented at the Wireless Technology Systems, Applications & Perspectives, Mysore, India.
31. Kiran, S., Gopee, K., Shivani, T., Rajashekhar, B. & Shyamala, K. C. (2015). *What does the brain tell us about processing semi-syllabic orthography?- Novel insights from central alexias and agraphias*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
32. Laxme, J. & Devi, N. (2014). *Effect of reverberation on acceptable noise level under different background conditions*. Paper presented at the National Symposium on Acoustics, Mysore, India.
33. Madhu Sudharshan Reddy, B., Shanbal. J. C. & Arunraj, K. (2015). *Awareness on communication disorders in Hospet Taluk of Karnataka: A preliminary survey report*. E-Poster presented at the Sound Hearing 2030- 1st World congress on Ear and Hearing, New Delhi, India.
34. Malar, G., Lakshmi Prabha, J. K. & Som Krishan. (2015). *Universal design of learning for children with hearing impairment.* Poster presented at the International Conference of the National Convention of the Educators of the Deaf, Orissa Chapter, Bhubaneswar, India.
35. Manasa, A. & Santosh, M. (2015). *An experimental verification of relationship between lexical category (content and function word) and stuttering frequency in children who stutter*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
36. Manjula, P. V., Suresh C. B. & Ramanakumari, P. V. (2014). *Promoting functional education in children with multiple disabilities: An impact of parents attributes-AIISH Model*. Paper presented at the International Conference on Empowerment of Persons with Multiple Disabilities, New Delhi, India.
37. Manjula, P.V. & Ramanakumari, P.V. (2015). *Effectiveness of remedial early literacy program for preschool children with hearing impairment*. Paper presented at the International Conference of the National Convention of the Educators of the Deaf, Orissa Chapter, Bhubaneswar, India.
38. Margret, V., Anumitha, V. & Abhishek, B.P. (2015). *Measurement of bilingual proficiency through self rating and objective methods: A comparison*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
39. Neeshma, V., Jumana Mithlaj, Niraj Kumar Singh. (2014). *Incidence and test -retest-reliability of ipsilateral and contralateral occular vestibular evoked myogenic potential in healthy adults*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
40. Nikhil, J., Rahul, K., Manjula, R. & Gayathri, K. (2015). Oral and transit time as a pharyngeal T factor of age, gender and consistency of liquid bolus. Paper presented at the47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
41. Niraj Kumar Singh, Sujeet Kumar Sinha & Animesh Barman. (2014). *Assessment of otolith mediated neural reflexes through cervical and ocular vestibular evoked myogenic potentials in individuals with auditory neuropathy spectrum disorders*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
42. Niraj Kumar Singh & Chitra, S.S. (2014). *Impact of personal music system use of sacculocolic reflex assessed by cervical vestibular evoked myogenic potential: A preliminary investigation*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
43. Odunavar. S. (2014). *Importance oflife skill for children who are hearing challenged in inclusive setup*. Paper presented at the International Conference on Capacity Building Programme for Teacher Educator: A Global Scenario, Bangalore, India.
44. Pradeep, K. P.(2015).*Cepstral 2ndPeak Prominence (CPPs) reflect, a slight variation in voice which cannot be noticed in Cepstral 1stPeak Prominence (CPP).* Paper presented at the XIth Phonocon, Nagpur, India.[expand]
45. Prashanth Prabhu, P. (2014). *Acquired auditory neuropathy spectrum disorder after an attack of chikungunya : A case study*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
46. Prawin Kumar, Niraj Kumar Singh & Sacchidanand Sinha. (2014). *Fast fourier transform analysis of speech processed at subcortical level in children at risk for central auditory processing disorders*. Paper presented at the National Symposium on Acoustics, Mysore, India.
47. Prawin Kumar, Shivaprasad & Bhargavi. (2014). *Effect of training in children with cochlear implants on speech perception in noise*. Paper presented at the Cochlear Implant Group of India Conference, New Delhi, India.
48. Prawin Kumar & Sacchidananda Sinha. (2014). *Effect of number of channels and simulated cochlear-implant processing on speech perception*. Paper presented at the Cochlear Implant Group of India Conference, New Delhi, India.[??????]
49. Preethi, C., Sam Publius, Varsha, M., Nike Gnanateja, J. & Sandeep, M. (2014). *Effect of below DRC environmental noise on stream segregation skills*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
50. **Preethi,T.,** Goswami S. P., Mithila, P, & Daly S. (2014). *Cognitive and Linguistic Intervention Manual: Malayalam Speaking persons with Dementia (CLIM: MPD)*. Poster presented at the Alzheimer’s Disease International-Asia Pacific Regional Conference, New Delhi, India.[?????]
51. Prema, K.S. & Remya Phillip. (2014).Audio-video sample analysis of morphophonology: Guidelines for speech-language pathologists and audiologists. Paper presented at the ISHA Bangalore Chapter Conference on Audio-video Methods: From Recording to Analysis-Application in Diagnosis and Intervention in Speech-language Pathology and Audiology, Bangalore, India.
52. Priya, G., Gopee, K., Shivani, T., Shyamala, K. C., & Rajashekhar, B. (2015). Developmental changes in eye movement patterns while reading Kannada. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
53. Priyanka, J. & Manjula, P. (2014). *Do cortical responses serve as on indicator for usefulness of bimodal mode?*  Paper presented at the Cochlear Implant Group of India Conference, New Delhi, India.
54. Priyanka, Resmitha, R., Sandeep, M. (2014). *Characterizing muscle artefact interference in AEP recording.*Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
55. Rahul, K. & Hema, N. (2014). *Benchmark for speaker identification using Linear Prediction Cepstral Coefficients (LPCC) on vowels in Kannada language: A preliminary study*. Paper presented at the National Symposium on Acoustics, Mysore, India.
56. Rajalakshmi, K. (2014). *The relationship between temporal resolution and speech perception in noise among musicians and non-musicians*. Paper presented at the Conference on Auditory System, Lewiston, Maine, USA.[?????]
57. Rajkumar, R., Shobha B.N. & Gururaj, D. (2015). *Knowledge and attitudes among mainstream school teachers for inclusion of children with communication disorders*. Paper presented at the International Conference on Inclusive Education: Its Perspectives and Challenges, Mysore, India.
58. Renuka, C. (2014). *Bilingual lexicon for children with hearing impairment: Boon with android application*. Paper presented at the 7th National Women’s Science Congress, Rashtriya Mahila Vijnana Sammelana, Vijapur, India.
59. Reuben, T.V. &Gopisankar, R.(2015). *Voice characteristics of mothers of children in the hearing impairment.* Paper presented at XI Phonocon, Nagpur, India.[Expand]]]]]]]]]]]]
60. Rohan Sudhakar & Niraj Kumar Singh .(2014). *Effect of stimulus polarity on tone-burst evoked ocular vestibular evoked myogenic potential*. Paper presented atthe 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
61. Rosemary C.J., Syama, A.N. & Sandeep, M. (2014). *Simultaneous auditory brainstem responses as a novel technique for clinical utility*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
62. Sam Publius, Vibhu Grover & Prawin Kumar .(2014). *Sub-cortical encoding in musicians and nonmusicians*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
63. Serooya, Nazmin & Rajasudharkar, R. (2014). *Voice characteristics in street children (vendors)*. Paper presented at the National Symposium on Acoustics, Mysore, India.
64. Shakuntala L. Gowda .(2014). *Role of nurses for ENG procedure*. Paper presented at the National Conference on Empower Nursing: Reflecting on Challenges & Changes, Mysore, India.
65. Shanbal, J.C., Arunraj, K., Madhu Sudharshan Reddy & Sunitha, E. (2015). *High risk indicators for hearing impairment in children: A preliminary data*. Paper presented at the Sound Hearing 2030- 1st World Congress on Ear and Hearing, New Delhi, India.
66. Shezeen, A.G., Revathi, R., Akriti, K. & Prashanth Prabhu, P. (2014*). Stimulus and subject related factors affecting contralateral suppression of acoustic reflexes*. Paper presented atthe 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
67. Shobha, B. N. & Suresh C. B. (2015). *Importance of curriculum adaptation for children with hearing impairment in an inclusive set up at primary level.*Paper presented at the International Conference of the National Convention of the Educators of the Deaf, Orissa Chapter, Bhubaneswar, India.
68. Shrushti Shabnam & Swapna, N. (2015). *Feeding and oro-motor skills in children with cerebral palsy*. Paper presented at the XIth Phonocon, Association of phonosurgeons in India, Nagpur, India.[expand]]]]]]]]]
69. **Shyam, H.R. (2014).** *Status of school counselors in India*. Paper presented at the Regional Seminar on School Counselors. [incomplete]]]]]]
70. Shyam, H.R. (2015). *Maternal estimates of age grade activities in their children with developmental disabilities.* Paper presented at the 41stNationalAnnual Conference of the Indian Association of Clinical Psychologists, Ahmedabad, India.
71. Sujan, M.J., Rakshith, S. & Prashanth Prabhu, P. (2014). *Effect of compression ratio on perception of time compressed phonemically balanced words in Kannada and monosyllables*. Paper presented at the 47th National Convention of the Indian Speech and Hearing Association, Manipal, India.
72. Swapna, N., (2015). *Digital tutorial to facilitate pre-reading skill : A supplement to the intervention module for preschool children with communication disorders*. Paper presented at the International Conference of the National Convention of the Educators of the Deaf, Orissa Chapter, Bhubaneswar, India.
73. Swapna, N., Alok Kumar Upadhyay & Harish Kumar. (2015). *Impact of comprehensive preparatory training on successful mainstreaming research*. Paper presented at the International Conference of the National Convention of the Educators of the Deaf, Orissa Chapter, Bhubaneswar, India.
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84. **Yashodhara Kumar, G.Y. (2015).***Levels of knowledge about suicide facts and myths among young college students in India*. Paper presented at the International Symposium DYUTI- 2015.[incomplete….]

**SCIENTIFIC PUBLICATIONS**

The faculty, staff and students published \_\_\_\_\_\_\_\_\_ in conference proceedings, \_\_\_\_ in international journals and 42 in national journals. Also, they published \_\_\_\_\_ books/ book chapters and prepared, \_\_\_ assessment tools pertaining to communication and its disorder during the reporting year.

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6. Anjana, K., Harish, K., & Swapna, N. (2015). Success story of Arya :A child with severe hearing impairment. *Journal of Education & Social Policy*, 80-81.[volume/issue no]
7. [Chandan, H.S. &](http://www.ncbi.nlm.nih.gov/pubmed/?term=Chandan%20HS%5BAuthor%5D&cauthor=true&cauthor_uid=25577995)[Prabhu, P](http://www.ncbi.nlm.nih.gov/pubmed/?term=Prabhu%20P%5BAuthor%5D&cauthor=true&cauthor_uid=25577995). (2015). Audiological changes over time in adolescents and young adults with auditory neuropathy spectrum disorder. *European Archives of Oto-rhino-laryngology*, Published early online. doi: 10.1007/s00405-015-3505-0.
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13. Gopikishore Pebbili. (2013). Efficacy of estimated subglottic pressure measured through a portable device in differentiating normal and pathological voices. *Lilavati, 6,* 58-61.[to get year of public]
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**Book Chapters**

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3. Upadhyay, A.K. (2014). Special Education to Inclusive Education: A Paradigm shift.In Goyal (Eds.), *Reading in Special Education* (pp.1022-1040). New Delhi:OxfordPublishing Company.
4. Upadhyay, A.K, & Mishra, A. (2014). Educational technology for students withHearing Impairment: A critical review of new trends. In……… (Eds), EducatingChildren with Special needs (pp.116-132). New Delhi:APH Publishing.[[name of the editor]]]]
5. Shyamala K.C.(2014). Fast mapping of novel words in bi/multilinguals.In Winskel, H. & Padakannaya, P. (Eds.)*South and Southeast Asian Psycholinguistics.* New York:Cambridge University Press.
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9. Manjula, R. (2015). Phonotactic constraints in characterizing the speech of children with apraxia: Observations from Kannada and Telugu. In …………….(Eds.)*Applications of Phonetics and Phonology, in Indian Languages*, *ISHA Monograph*, *14*.

**Books / Manuals /Proceedings edited :**

1. Shanbal, J. C., & Ajith Kumar, U. (2014). *Training manual for Speech Pathologistsand Audiologists. Mysore:* All India Institute of Speech & Hearing.
2. Prema, K.S.(2014). Scripts for resource books, video modules, telelessons, success stories and communication disorders awareness snippets are being developed and edited to meet CREDM objectives*Mysore:* All India Institute of Speech & Hearing.

**Test materials / assessment tools published**

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2. Venkatesan, S. (2015). Problem behavior survey schedule. Bangalore: Psychotronics.