**II. RESEARCH ACTIVITIES**

The institute has been contributing significantly to the growth of the specialty of communication and its disorders through a wide range of research and development activities. Contribution to the field of speech and hearing in the basic as well as applied research to the country is notable not only in terms of its quantity but also the quality. Apart from the national and international research publications, the faculty, staff and students have presented numerous scientific papers in various conferences, seminars and workshops in India and abroad. Awards won for the best scientific papers in various conferences by the faculty and students in the report year has once again proved that the institute has maintained the tradition of being a leader in research in the country. Research projects supported by extra mural grants, as well as the grants received from our own “AIISH Research Fund” have remained the mainstay of all the research activities of the institute.

The various research activities of the institute in the reporting year are presented under the following sections:

1. Research Publications
2. Research Projects
3. Awards and honors
4. Scientific papers presented in various forum
5. Doctoral programs
6. Masters Dissertations
7. **RESEARCH PUBLICATION**

The staff and students were involved in presenting scientific papers in various conferences, carrying out research projects, preparing for national and international publications, enrolling in doctoral programs and guiding the graduate and the post graduate students in their research activity. The various research activities, in the academic year 2009-10, are as follows:

**Internal (AIISH) Publications**

**Journal of AIISH:** The Journal of the All India Institute of Speech & Hearing (JAIISH ISSN No. 0973-662X) volume No. 28 was published in the year 2009.

Other AIISH publications included the following:

* “Student Research at AIISH, Mysore” (Articles based on dissertations done at AIISH), Vol. V: 2006-07, Part A – Audiology, and Part B – Speech-Language Pathology.
* “Student Research at AIISH, Mysore" (Articles based on dissertations done at AIISH), Vol.VI : 2007-08, Part A – Audiology, Part B - Speech- Language Pathology and Part C – Special Education.
* “Student Research at AIISH, Mysore" (Articles based on dissertations done at AIISH), Vol.VII: 2008-09, Part A-Audiology, Part B-Speech-language Pathology and Part C-Special Education.
* Parent & Child - Workbook for parents of children with hearing impairment, 2009.
* ABCs of Communication Disorders, 2009.
* Learning Disabilities, 2009.
* Study material of Certificate Course for Caregivers of Children with Developmental Communication Disorders (C4D2).
* Self-Learning Material for Diploma in Hearing, Language and Speech. - Course I: Introduction to Audiology, AIISH, Mysore.

Course II: Introduction to Speech-Language Pathology, AIISH, Mysore.

Course III: Basic Medical Sciences related to speech and hearing, AIISH, Mysore.

Course IV: Psychology, AIISH, Mysore.

Course V: Community Based Rehabilitation, AIISH, Mysore.

Course VI: Education for Children with Special Needs, AIISH, Mysore.

**Publication in the Journal of the All India Institute of Speech and Hearing Vol. 28.**

* Deepa, M.S. & Prema, K.S. (2009). Phonological Awareness in Specific Learning Disability: A Journey into Search for Genetic Inheritance, pp. 65-74.
* Deepti S. Rao, Manasa, R., Haraprasasd, N. & Prema, K.S. (2009). Effect of Caffeine on Cognitive Functions, pp.75-80.
* Gopi Sankar, R., Jasmine Malik & Jayashree C Shanbal (2009). Lexical Processing in Bilingual Children: Evidence from Masked Phonological Priming, pp. 89-95.
* Hema, N., Sangeetha Mahesh & Pushpavathi, M. (2009). Normative Data for Multi-Dimensional Voice Program (MDVP) for Adults-A Computerized Voice Analysis System, pp.1-7.
* Jayakumar, T. & Savithri, S.R. (2009). Assessment of Voice Quality in Monozygotic Twins: Qualitative and Quantitative Measures, pp. 8-13.
* Leah Philip, Pushpavath,sM. & Sangeetha Mahesh (2009). Influence of Native Language on Nasalance Measurement, pp. 14-18
* Madhu K., Deepa M.S., Suhas K., Harshan Kumar & Shyamala, K.C. (2009). Standardization of Receptive Expressive Emergent Language Skills for Kannada Speaking Children, pp. 96-102**.**
* Powlin Arockia Catherine, S. & Savithri, S.R. (2009). Effect of Temporal Variation on Phoneme Identification Skills in 2-3 Years Old Typically Developing Children, pp.31-35.
* Radhima Batra, Gnanavel, K. & Goswami, S.P. (2009). Consumer Satisfaction Index of Caregivers of Individuals with Communication Disorders, pp.142-148.
* Rajasudhakar, R. & Savithri, S.R. (2009). Voicing Periods in a primary School Teacher, pp. 36-41.
* Ranjeet Ranjan & Pushpavathi, M. (2009). Etiological Correlates of Hoarse Voice, pp. 42-45.
* Santosh, M., Priyanka Parakh & Rajashekhar, B. (2009). Voicing Contrast in Tracheoesophageal Speakers, pp. 46-53.
* Sarika Khurana & Prema, K.S. (2009). Story Re-tell Abilities in Preschoolers Development in Kannada Speaking English Language Learners, pp.103-114.
* Seby Maria Manuel, Rhea Mariam Korah & Sandeep, M. (2009). Temporal Modulation Transfer Function through Analog and Digital Hearing Aids, pp.149-155.
* Sirisha Duvvuru & Sreedevi, N. (2009). Perceptual Gender Identity of Voices in Pre-pubertal children, pp. 54-58.
* Smita Desai, Chandralata Sharma & Kritika Nair (2009). Speech and Language Development, Cognitive Ability and Literacy Skills in Children Identified with Learning Disabilities: A Comparative Study, pp. 122-127.
* Venkatesan, S. (2009). Barriers in Optimizing Home Training Programs for Children with Developmental Disabilities, pp.128-134.
* Book Reviewby Dr. N. Rathna, Status of Disability in India – 2007, Hearing Impairment & Deaf Blindness, pp. 171-172.

**Student Research at AIISH (Articles based on Master’s dissertation) Vol. V: Dr. Vijayalakshmi Basavaraj, Director and Prof. Y.V. Geetha, Professor in Speech Sciences edited the volumes.**

* Abhay Kumar, R. & Rajalakshmi, K. (2006-07). Speech identification with single channel multichannel and channel free hearing aids, pp.2-11.
* Anirban Chaudhury & C.S. Vanaja. (2006-07). Brainstem and cortical responses to speech stimuli in individuals with cochlear hearing loss, pp.12-22.
* Anusha, R. & Manjula, P. (2006-07). Binaural amplification-Does technology matter? pp.23-33.
* Arivudai Nambi, P. & Vanaja, C.S. (2006-07). Reduction of stimulus artifacts in ASSR: An investigation of a stimulus approach, pp. 34-42.
* Bijan Saikia & Manjula, P. (2006-07). Comparison of word recognition scores using different settings of telecoil in a digital hearing aid, pp. 43-52.
* Dayal, Goswami, S.P & Rajalakshmi, K. (2006-07). Estimation of auditory thresholds in cochlear implant subjects using ASSR, pp. 53-65.
* Deepashri Agrawal & Animesh Barman (2006-07). A search to possible pathways for later peaks of VEMP and N3 potential, pp. 66-78.
* Gunjan Chand, Basavaraj, V. & Ajish Abraham (2006-07). Acoustic analysis of the speech processed through three amplification strategies and their effect on speech recognition scores of individual with severe hearing impairment, pp.79-93.
* Kishan, M.M. & Animesh Barman (2006-07). Some aspects of temporal processing deficits in individual with learning disability, pp. 94-104.
* Manasa Ranjan Panda & Yathiraj, A. (2006-07). Speech recognition of spectrums with ‘holes’ by children, pp. 105-114.
* Niraj Kumar & Animesh Barman (2006-07). Importance of long latency potential in pediatric hearing assessment, pp. 115-127.
* Palash Dutta & Rajalakshmi, K. (2006-07). Pitch perception in individuals with sensorineural hearing loss with and without dead regions, pp.128-137.
* Priya, G. & Yathiraj, A. (2006-07). Effect of dichotic offset training (Dot) in children with auditory processing disorder, pp. 138-147.
* Rahana Nandan,V.V. & Yathiraj, A. (2006-07). Development of high and low predictable English sentence test (Ehlps), pp.148-158.
* Shibasis Chowdhury & Manjula, P. (2006-07). NRT: Comparison of artifact cancellation and threshold estimation techniques, pp. 159-174.
* Shruti Kaul & Vanaja, C.S. (2006-07). Speech-evoked auditory late latency response (ALLR) in hearing aid selection, pp. 175-187.
* Sumesh, K. & Animesh Barman (2006-07). Brainstem responses to speech in normal hearing and cochlear hearing loss individuals, pp.188-200.
* Sushmit Mishra & Manjula, P. (2006-07). Music processed by hearing aids, pp. 201-213.
* Swapna Raj, S. & Rajalakshmi, K. (2006-07). Efficacy of frequency transposition hearing aid in dead region subjects, pp. 214-225.
* Yatin Mahajan & C.S. Vanaja (2006-07). Effect of cochlear hearing loss on tone burst evoked stacked auditory brainstem response, pp. 226-232.

**Volume VI**

* Aishwarya, A. & Geetha, Y.V. (2010). Effect of Pranayama in the Management of Stuttering Part B.
* Akaksha Guptha & Pushpavathi, M. (2010). ‘Reliability of perceptual voice evaluation of voice using CAPE –V rating scale in Indian Context”. Part-B, pp.98-113.
* Amith, K & Geetha, Y.V. (2010). A preliminary investigation in to the cognitive abilities of persons with stuttering using Simon and Stroop tasks. Part-B.
* Anagha A.D., & Basavaraj, V. (2007-08). Syntactic Processing in Multilingual Geriatric /Population pp.1-17.
* Anita, T. & Shyamala, K.C. (2010). Differential diagnosis of Autism Spectrum Disorders-Validation of DSM IV criteria. Part-B, pp.1-13.
* Anjana, S. & Sreedevi, N. (2010). The phonetic characteristics of babbling in Kannada, pp. 18-34.
* Ankit Mathur & Manjula, P. (2007-08). Efficacy of NAL-NL1 prescription for the first-time hearing aid users: A follow-up study, pp. 1-15.
* Annapurna S B & N Sreedevi. (2010). Norms for Forced and Slow vital capacity in adult Dravidian population, pp.45-58.
* Asha Manoharan & Yathiraj, A. (2007-08). Auditory learning manual for Malayalam speaking children with hearing impairment, pp. 16-28.
* Bindu, P. & Animesh Barman (2007-08). Estimation of behavioral threshold using click evoked ALR in normal and hearing impaired population, pp. 29-40.
* Biswajit Sadangi & Yathiraj, A. (2007-08). Recognition of Oriya monosyllabic PB words in presence of temporally variant noise, pp. 41-54.
* Chandrakant Vishwakarma & Basavaraj, V. (2007-08). Effect of envelope enhancement on speech reception and late latency response measures in subjects with auditory dys-synchrony, pp. 55-75.
* Devi, T.R. & Pushpavathi, M. (2010). ‘Normative nasalence value in Malayalam language”. I Part-B, pp.59-64.
* Devika M.R., & Swapna, N. (2010). ‘Symbolic play and language-Its relationship in late talkers’ Part-B, pp.65-80.
* Dhanya, V.K. & Rajalakshmi, K. (2007-08). Effect of different signal enhancing technologies on speech recognition in noise, pp. 76-86.
* Gnanavel, K. & Jayashree C Shanbal. (2010). ‘Subtyping of children with developmental dyslexia – Implications through dual route cascaded (DRC) Model in the Indian context”. Part-B, pp.81-97.
* Gubba Vijay Shankar & Basavaraj, V. (2007-08). The effect of various modes of excitation of sterno-cleido mastoid muscle on vestibular evoked myogenic potentials (VEMP), pp. 87-104.
* Jijo, P.M. & Yathiraj, A. (2007-08). Early speech perception test development for Malayalam speaking children with hearing impairment, pp. 105-119.
* Johnsirani, R. & Yeshoda, K.(2010). Speaker’s formant: an indicator of expressive speech in some groups of professional voice users, pp.44-57.
* Kavya, V. & Shyamala K.C. (2010). Development of cognitive-Linguistic Assessment protocol for children with learning disabilities. Part-B, pp. 58-70.
* Kishore, T. & Rajalakshmi, K. (2007-08). Dichotic rhyme test in Telugu: A normative data on adults, pp. 120-130.
* Kunal Ghosh. & Yeshoda, K.(2010). Comparison of acoustic characteristics in female trained (Carnatic style), untrained singers and non singers, pp.71-87.
* Kuppuraj, S. & Jayashree C Shanbal. (2010). ‘Dyslexia Assessment profile for Indian children (BAPIC). Part-B, pp.114-128.
* Leah, P & Geetha, Y.V. (2010). Stuttering variability in bi/multilingual persons with stuttering. Part B.
* Manuj Agarwal & Manjula, P. (2007-08). Aided acceptable noise levels (ANL) a comparison across degree of hearing loss, noise reduction in hearing aid and personality type, pp. 131-144.
* Maria, G.T. & Shyamala, K.C. (2010). Children acquired aphasia screening test in Kannada (CAAST-K). Part-B, pp.88-100.
* Marlyn, M. K. & Yeshoda, K. (2010). Effect of speaking rate on some spectral and temporal measures, pp*.*101-111.
* Meerapriya, C.S., & Manjula, R (2010). ‘Clinical Protocol for assessment of swallowing in adults’ (CP-ASA). Part-B, pp.129-138.
* Pallavi Malik & Manjula, R (2010). ‘The order of S, O, V, structures in sign language users with hearing impairment-Influence of verbal native language?’ Part-B, pp.155-170.
* Prathima, S & Sreedevi, N. (2010). Articulatory acquisition in Kannada speaking Urban children: 3-4 Years, pp.45-58.
* Pravesh Arya & Pushpavathi, M, (2010). ‘Normative nasalence value in Hindi language”. Part-B, pp.187-198.
* Priya, M.B. & Manjula, R. (2010). ‘Meta Linguistic abilities in children with developmental dyslexia: Implications for reading and writing’. Part-B, pp.199-212.
* Ramya N & Rajalakshmi, K. (2007-08). Rhythm Perception with Fine Structure Cues: A Simulated Study, pp. 145-158.
* Rubina & Rajalakshmi, K. (2007-08). Effect of degree of loss and age on speech identification with multi channel hearing aids, pp. 159-171.
* Sandeep Ranjan & Yathiraj, A. (2007-08). Cross language perception of voicing in children with hearing impairment, pp. 172-185.
* Sandhya S Shekar & Manjula, P. (2007-08). Benefit of binaural amplification in participants with asymmetric hearing impairment, pp.186-202.
* Sangamesh, C. & Rajalakshmi, K. (2007-08). Dichotic rhyme test in Kannada: A normative data on adults, pp. 203-216.
* Shweta Prakash & Yathiraj, A. (2007-08). Effect of low pass noise on speech perception in individuals with hearing impairment, pp. 217-230.
* Somy, E.S. &Geetha, Y.V. (2010). Nonword repetition skills in 5-6 year old Kannada speaking children with and without stuttering. Part B
* Sreeraj, K. & Manjula, P. (2007-08). Contribution of FM system for speech recognition in noise in cochlear implantees, pp.231-242.
* Sumitha, M.M. & Animesh Barman (2007-08). The cortical neural processing for spectrally different speech sounds in individuals with cochlear hearing loss, pp.243-256.
* Vignesh, S.S. & Animesh Barman (2007-08). Comparison of click and chirp evoked ABR in normal hearing and hearing impaired individuals, pp.257-275.
* Vishwakarma, C. Basavaraj, V. (2007-08). Effect of envelope enhancement on speech reception and late latency response measures in subjects with auditory dys-synchrony, pp.56-75.

**Volume VII**

* Arunraj, K. &. Devi, N. (2008-09). Dichotic word test (DWT) in India English speaking children, pp.1-16.
* Bhavya, M. &. Mamatha, N.M. (2008-09). Comparison of acceptable noise level and signal to noise ratio using directional microphone and FM system, pp.17-32.
* Devika M.R. & Swapna, V. (2010). ‘Symbolic play and language-Its relationship in late talkers’ Student Research at AIISH, pp.65-80.
* Gurdeep Singh & Devi, N. (2008-09). Dichotic word (CVCV) test in native Kannada speaking children, pp.32-51.
* Ismail, S. Md. & Manjula, P. (2008-09). Prescription of hearing aids using auditory steady state responses (ASR), pp.52-63.
* Jawahar Antony Periannan & Animesh Barman. (2008-09). PAMR: An objective tool to measure hearing sensitivity in individuals with normal hearing and hearing impairment, pp.64-75.
* Kurode Nikhil Prakash & Manjula, P. (2008-09). Verification of hearing aid selection using visible speech and speech intelligibility index, pp. 76-89.
* Lalhmangaihi & Basavaraj, V. (2008-09). Development and standardization of spondee and phonetically balanced (PB) word lists in Mizo language, pp.90-106.
* Manasa Madappa & Mamatha, N.M. (2008-09). Vestibular Evoked Myogenic Potential (VEMP) in individuals with noise induced hearing loss (NIHL), pp.107-125.
* Meenakshi Dayal & Manjula, P. (2008-09). Comparison of functional gain and insertion gain in linear and non-linear hearing aids, pp.126-140.
* Megha & Vinay, S.N (2008-09). Frequency discrimination and speech identification abilities in individuals with and without cochlear dead regions, pp.141-156.
* Muthu Selvi, T. & Yathiraj, A. (2008-09). Utility of the ‘screening checklist for auditory processing (SCAP)’ in detecting (C) APD in children, pp.157-173.
* Pooja Dayal & Sandeep, M. (2008-09). Speech characteristics in individuals with auditory dys-synchrony, pp.174-185.
* Ramesh Chandra Indlamuri & Animesh Barman (2008-09). Relationship between auditory long latency response and speech identification scores in individuals with auditory neuropathy, pp.186-198.
* Sasmita Behera & Vinay, S.N. (2008-09). Aided threshold equalizing noise test, pp.199-214.
* Sharath Kumar, K.S. & Basavaraj, V. (2008-09). Multifrequency, multi-component tympanometry: Normative in kindergarten and preschool children (3-6 years), pp.215-228.
* Shuchi Garg & Animesh Barman. (2008-09). Relationship between speech identification scores and auditory evoked potentials in children with learning disability, pp.229-242.
* Sinthiya, K. & Sandeep, M. (2008-09). High frequency speech identification test in Tamil, pp.243-252.
* Sruthy Hrishikesan & Manjula, P. (2008-09). Efficacy of non-linear frequency compression in individuals with and without cochlear dead regions, pp.253-266.
* Tamanna Khurana & Basavaraj, V. (2008-09). Binaural fusion test in Kannada for children, pp.267-278.
* Vivekanandh, M. & Animesh Barman. (2008-09). Utility of vestibular evoked myogenic potentials in the differential diagnosis of suspected meniere’s disease and benign paroxysmal positional vertigo, pp.279-293.

**Publications in proceedings of seminar/workshops/conferences**

**International proceedings**

* Lakshmi Prasanna & Savithri, S.R. ‘Benchmark for speaker identification using vector F1 ~ F2’ Proceedings of the International Symposium – Frontiers of Research on Speech and Music (FRSM) (co-authored) pp. 38- 41.
* Mandira Bhattacharjee, Varsha Hariram & Pushpavathi, M. (2009 co author): Nasometer. A tool for studying nasal coarticulation. “Proceedings of the international symposium on frontiers of Speech and Music” (FRSM -2009), pp.47-53.
* Pushpavathi, M**.,** Priyanka Shailath & Varun Uthappa, A.G. (2009). Effect of jaw opening and tongue protrusion on phonation, “Proceedings of the international symposium on frontiers of Speech and Music (FRSM -2009), pp. 96-101.
* Rajasudhakar, R. & Savithri, S.R. ‘Voicing Periods in Daily and Weekly Speech of a Primary School Teacher’ Proceedings of the International Symposium-Frontiers of Research on Speech and Music (FRSM) (co-authored) pp.117-121.
* Rajesh Tripathy & Pushpavathi, M. (2009). The effect of Frequency variation on nasalence and intensity across vowels in classically trained Singers. “Proceedings of the international symposium on frontiers of Speech and Music (FRSM), pp.122-130.

**National proceedings**

* Ajish K Abraham (2009) “Active Noise Cancellation of HVAC System Noise in Audiometric Test Rooms”, proceedings of the International Conference on Electronic Design & Signal Processing-ICEDSP09 organized by Manipal Institute of Technology, Manipal, from 10-12.12.2009.
* Ajish K Abraham (2009) “Technology & Instrumentation for Speech & Hearing”, proceedings of the “RCI-CRE program” organized by Sweekar Rehabilitation Institute for Handicapped, Secunderabad”, from 22-23.10.2009.
* Animesh Barman (2010). ‘Introduction to anatomy and physiology of the cochlea’ In Proceedings of the seminar on ‘Issues related to identification, diagnosis and management of individuels with cochlear dead regions’, held on 7th September 2009, pp. 1-5.
* Rajasudhakar, R. & Savithri, S.R. ‘Fundamental frequency and perturbation changes under voice loading’ Proceedings of the National Symposium of Acoustics 2009 (co-authored) pp.1-6.
* Ridhima Batra, Pallavi Mallik & Shymala, K.C. (2010) Naming Deficits in Bilingual Aphasia. In Proceedings of SCONLI-3, New Delhi.
* Savithri, S.R., Sreedevi, M., Kavya, V. & Jayakumar T. ‘Speech Rhythm in Kannada Speaking Children’ Proceedings of the National Symposium of Acoustics 2009, pp.1-5.
* Yathiraj, A. (2010). ‘Management strategies for individuals with auditory dys-synchrony’. In Proceedings of the seminar on ‘Issues related to identification, diagnosis and management of individuals with auditory dys-synchrony’, on 9th August 2009, pp. 67-73.

**Books /Chapters in books**

* + Basavaraj, V. (2008). “Hearing Aid Provision in Developing Countries: An Indian Case Study” in Bradley McPherson, Ron Brouillette (Ed). Audiology in Developing Countries, Chapter 8, pp.155-166, Nova Science Publishers Inc., New York.
  + Barman, A. (2009). ‘Anatomy and physiology of the ear and causes of hearing losses. Self-Learning Material for Diploma in Hearing, Language and Speech - Course III Basic Medical Sciences related to speech and hearing, AIISH, Mysore, Chapter No.3, pp. 97-123, published in January 2010.
  + Jayashree C Shanbal. & Goswami, S.P. (2009). Transcription in Speech-Language and Hearing: Using the IPA. In G. Mukundan (Ed.), Phonological disorders: Issues in assessment. pp.38-45. ISHA Monograph: A Publication of the Indian Speech and Hearing Association. ISSN 0974-214X.
* Manjula, R., Ashir Bharadwaj, Kishore Tanniru & G. Vijayashankar (2009): ABC’s of Communication Disorders. AIISH Publication, Mysore.
* Prema,K.S., Jayashree C Shanbal. & Khurana, S. (2010). Bilingualism and Biliteracy in India: Implications for Education. In J. Petrovic (Ed.), International Perspectives on Bilingual Education Policy, Practice and Controversy. pp. 95-115. Info age: USA. ISBN 978-1-60752-330-7.
* Savithri, S.R. (2009). Community Based Rehabilitation for Diploma in Hearing language and Speech (DHLS) AIISH, Mysore, Chapter 1,
* Savithri, S.R. (2009). Community Based Rehabilitation for Diploma in Hearing language and Speech (DHLS) AIISH, Mysore, Chapter 2,
* Savithri, S.R. (2009). Community Based Rehabilitation for Diploma in Hearing language and Speech (DHLS) AIISH, Mysore, Chapter 4.
* Savithri, S.R. (2009). Introduction to Speech and Language Pathology for Diploma in Hearing language and Speech (DHLS) AIISH Mysore, Chapter 1.
* Savithri, S.R. (2009). Introduction to Speech and Language Pathology for Diploma in Hearing language and Speech (DHLS) AIISH Mysore, Chapter 2.
  + Vanaja, C.S. & Yathiraj, A. (2009). ‘Hearing loss’. Self-Learning Material for Diploma in Hearing, Language and Speech - Course I: Introduction to Audiology, AIISH, Mysore, Chapter No.2, pp.18-38.
* Vanaja, C.S. & Yathiraj, A. (2009). ‘Sound and hearing’. Self-Learning Material for Diploma in Hearing, Language and Speech - Course I: Introduction to Audiology, AIISH, Mysore, Chapter No.1, pp.1-17.
* Venkatesan, S. (2009). “Gessells Drawing Test of Intelligence". Bangalore: Psychotronics.
  + Yathiraj, A. (2009). ‘Hearing aids and earmolds’. Self-Learning Material for Diploma in Hearing, Language and Speech - Course I: Introduction to Audiology, AIISH, Mysore, Chapter 4, pp.71-98.
  + Yathiraj, A. & Goswami, S.P. (2009). ‘Counseling and troubleshooting hearing aids’. Self-Learning Material for Diploma in Hearing, Language and Speech - Course I: Introduction to Audiology, AIISH, Mysore, Chapter 5, pp.99-128.
  + Yathiraj, A. (2009). ‘Curricular Development / Adaptation and Instruction for Children with Communication Disorders’. Self-Learning Material for Diploma in Hearing, Language and Speech - Course VI: Education for Children with Special Needs, AIISH, Mysore, Chapter No.3, pp. 65-93.
  + Yathiraj, A. (2009). ‘Role of Speech and Hearing Technicians in Education /Training of Children with Communication Disorders’. Self-Learning Material for Diploma in Hearing, Language and Speech - Course VI: Education for Children with Special Needs, AIISH, Mysore, Chapter No.5, pp.107-119.
  + Yathiraj, A. (2009). ‘Preparation/Use of Teaching Aids and Language Workbooks’. Self-Learning Material for Diploma in Hearing, Language and Speech - Course VI: Education for Children with Special Needs, AIISH, Mysore, Chapter No.4, pp. 94-106.
* Yeshoda, K**.** (2009): Anatomy & Physiology of Pharynx and Oro-peripheral structures. Self Learning Material for Diploma in Hearing Language and Speech (DHLS) - Course III, Unit 4: “Basic Medical Sciences related to Speech & Hearing”, AIISH, Mysore
* Yeshoda, K. (2009): Anatomy & Physiology of Larynx, physiology of respiration. Self Learning Material for Diploma in Hearing Language and Speech (DHLS) - Course III, Unit 5: “Basic Medical Sciences related to Speech & Hearing”, AIISH, Mysore

**International Publications**

* Christine Turgeon, Michele Doslaler, Yathiraj, A. & Andre Marcoux (2009). Hearing aid noise reduction algorithms and the acquisition of novel speech contrasts by young children. Canadian Journal of Speech-Language Pathology and Audiology, Vol.33, No.3, pp.140-145.
* Preeja Balan and Manjula, R. (2009) Communication Functions, Modalities and Maternal Responses in Children with Severe Speech and Physical Impairment. Asia Pacific Journal of Speech, Language and Hearing,Vol. 12, Issue No. 1, pp 27-56, 2009.

**National Publication**

* Govindaraju, R. and Venkatesan, S. (2009). A Study on School Drop Outs in Rural Settings**.** Journal of Psychology. Acceptedfor publication.
* Jayanti Ray & Shyamala, K.C. (2010) “Perseveration in Right Hemisphere Brain Damaged Individuals”. Asia Pacific Disability Rehabilitation Journal Vol. 21, No. 1 pp. 91-100
* Karimi, A. and Venkatesan, S. (2009). Development and Preliminary Validation of Mathematics Anxiety symptoms in High School Students. Asian Journal of Developmental Matters. 3(2) pp.176-180.
* Karimi, A. and Venkatesan, S. (2010). Psychometric Properties and Norm differences in Mathematics Anxiety Scale for High School Students in India. Asian Journal of Developmental Matters. 4 (1). pp.130-136.
* Kumar, P. & Yathiraj, A. (2009). Monosyllable, bisyllable and trisyllable word identification test for children in Indian English. JISHA, 23, pp. 51-60.
* Kumar, U.A. S. Maruthy, V. Chandrakant (2009). Distortion product otoacoustic emission: Comparison of sequential vs. simultaneous presentation of primary tones. Indian Journal of Otolaryngology, 61(1), pp.30-35.
* Maitryee, R., 2009). Inter-Lingual Homophone Retrieval in Bilinguals. Journal of Indian Speech Language and Hearing Association, Vol. 23, pp. 33-41.
* Pallavi Malik & R. Manjula (2010). Comparison of Subject, Verb and Object Structures in Sign Language Users with Hearing impairment: Influence of the Verbal Native Language? JISHA, Vol. 24, No. 1, pp. 48- 58.
* Preeja Balan and R. Manjula. Communication Functions, Modalities and Maternal Responses in Children with Severe Speech and Physical Impairment. Asia Pacific Journal of Speech, Language and Hearing, Vol. 12, Issue No. 1, pp. 27-56, 2009.
* Roy, E.A., Paul, S., Goswami S.P., (2009). Verbal Memory span and Sequential Memory in Children with Learning Disability JISHA, Vol. 23, pp. 19-24.
* Venkatesan, S. (2009). Psycho Oration Award Address: A Pilgrims Progress. Indian Journal of Clinical Psychology. 36 (1) pp.4-9.
* Venkatesan, S. (2010). Case Study on Cost Benefit Analysis for Government Sponsored Pension Scheme for Persons with Mental Retardation. Asian Journal of Developmental Matters.4 (1) pp.176-188.
* Yathiraj, A. & Priyadarsini K. (2009). Effect of training on dichotic CV and dichotic digit scores. JISHA, 23, pp.74-80.

**Online Journal**

* Deepa M.S Avanthi, Abhishek & Shyamala, K.C. (2009). Phonological, Grammatical & Lexical interference in Adult Multilingual Speakers, Vol. 9: 6 June 2009 pp.11-22 [www.languageinindia.com](http://www.languageinindia.com).
* Mandira B, Natasha R & Shyamala, K.C. (2009). Socio - linguistic Constraints of Code Switching in Hindi - English - Kannada Multilinguals, Vol. 9 (12), pp.75-89 www.languageinindia.com
* Rajalakshmi, K. reviewed an article entitled, ‘An assessment of the possible influence of noise frequency component on health of exposed industrial workers’ for the Journal of Noise and Health for <http://www.journalonweb.com/nah>.
* Shyamala, K.C. (2009). Bi/Multilingualism and Issues in Management of Communication Disorders with Emphasis on Indian Perspectives, Online Journal Vol. 9 (8), August 2009, ISSN 1930-2940 pp.400-429 [www.languageinindia.com](http://www.languageinindia.com)
* Shyamala, K.C., Deepa Nayak, M.S. Avanthi. N. & Abhishek, B.P (2009). Phonological, Grammatical and Lexical Interference in Adult Multilingual Speakers. Vol. 9 (6), June 2009. ISSN 1930-2940 pp.11-22 [www.languageinindia.com](http://www.languageinindia.com)

1. **RESEARCH PROJECTS**

Promoting research interests in the field has remained one of the major aims of the institute. In this direction, the faculties of various departments have contributed significantly by undertaking research projects. These research projects are funded by extra mural grants received from various agencies and AIISH research fund. Some of the projects are self initiated by the faculty of respective departments with no external source of funding. Students from other universities, especially from the engineering sciences have availed the expertise of the staff in the Department of Electronics in carrying out collaborative research projects at the institute, as a part fulfillment of their course requirement.

**Research projects with extramural funding**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Title of the project | *Comparative efficacy of BTEs over body level hearing aids in the development of speech and language among the hearing impaired children.* | | |
| Principal Investigator | Dr. Jayaram M | | |
| Co-investigator | Prof. Manjula, P. | | |
| Funding Agency | Scheme of S & T | | |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 6.07 lakhs | | |
| Status | Completed | | |
| **Summary:** The objective of the project was to evaluate the effectiveness of BTE hearing aids (Monaural and binaural) over body level hearing aids in terms of localization, speech identification in quiet and speech identification in noise. In this project, 30 children, of less than five year of age, with hearing impairment were distributed analog BTE binaural hearing aids. Their performance was assessed based on speech identification scores in quiet, noise, and localization. The findings emphasize that the binaural BTEs are better than monaural BTEs or body level hearing aids. | | | |
| 1. Title of the project | *Issues and strategies for development of human resources for deafness prevention, identification and management* | | | |
| Principal Investigator | Dr. Vijayalakshmi Basavaraj | | | |
| Co-investigator | Prof. Manjula, P. | | | |
| Funding Agency | WHO (WHO- APW) | | | |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 2.00 lakhs | | | |
| Status | Ongoing | | | |
| **Summary**: A detailed situational analysis regarding the present position, additional need and the type of man power suitable for the purpose of deafness prevention, identification and intervention was carried out. It was documented that such manpower including the speech and hearing professionals to carry out prevention and identification activities of hearing impairment is grossly inadequate and it was strongly felt that the involvement of the NRHM and NUHM and the programs under the Ministry of Women and Child Development, Sarva Shiksha Abhiyan (SSA) of Ministry of Human Resource should be explored to include activities geared towards prevention, early identification and early intervention of hearing impairment. The rehabilitation program seemed to be effective only when individuals within the community are involved such as the home-makers, high-school students in the villages. The strategies enumerated in the workshop included creating awareness on prevention of hearing impairment, strengthening the immunization programs, multi-skill training of the nurses in identification, capacity building of the PHCs and CHCs, use of check lists, use of simple training modules for long drawn intervention, documentation and monitoring to ensure sustenance of the program. | | | | |
| |  |  | | --- | --- | | 1. Title of the project | *Support for the dissemination and use of hearing aids* | | Principal Investigator | Dr. Vijayalakshmi Basavaraj | | Co-investigator | Prof. Manjula, P. | | Funding Agency | WHO (WHO- APW) | | Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 2.17 lakhs | | Status | Ongoing | | **Summary:** The objectives of this project were to develop educative material on hearing impairment and hearing aid usage in order to empower the hearing aid beneficiaries for effective use of the device. As part of the project, the eight existing public education pamphlets (PEP) were reviewed and modified wherever indicated. Eight PEPs were newly developed. A workshop was conducted to evaluate the content including illustrations/pictures used in these materials. Audiologists, Speech-language pathologists, special educators, individuals with hearing impairment and their care givers participated in the workshop and gave their feedback about the PEPs. Based on the feedback obtained on these materials, further modifications were undertaken to improve the effectiveness of the materials and they were finalized. | | | | | | |
| 1. Title of the project | | *Development of Speech Rhythm in Kannada speaking children* |
| Principal Investigator | | Dr. Savithri, S.R. |
| Co-investigator | | Dr. Sreedevi, N. |
| Funding Agency | | Dept. of Science & Technology, New Delhi |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | | 19.00 lakhs |
| Status | | Ongoing |
| **Summary:** The objective of the project is to investigate the development of speech rhythm in Kannada speaking children. Speech samples of normal children in the age range of 11-12 years were audio-recorded and the duration difference between successive vocalic and intervocalic segments were calculated and averaged to get the pair-wise variability index. The rhythm class was classified as belonging to one of the 3 types of the rhythm. The result of the project will add information about the effect of age on speech rhythm and this will be helpful in providing effective diagnostic and rehabilitative methods to the clinical population. | | |

|  |  |
| --- | --- |
| 1. Title of the project | *Brain organization in Normative Bilingualism /Multilingualism* |
| Principal Investigator  Co-investigator | Dr. Shyamala, K.C.  Dr. N. Shivashankar |
| Funding Agency | Dept. of Science & Technology, New Delhi |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 12.84 lakhs |
| Status | Ongoing |
| **Summary:** The aim of the project is to investigate code switching between languages among bilinguals and multilinguals. Language proficiency and code switching would be examined separately in bilinguals and in multilinguals. Normal volunteers would be studied to understand the mechanism of code switching. Five paradigms of code switching would be used-three paradigms with spontaneous speech and two with successive words. The paradigms involving spontaneous speech include (a) code switching in spontaneous speech, (b) code switching in speech with instructions to induce switching, and (c) code switching in speech with instructions to constrain switching. The paradigms involving successive words are forced code switching with translation of the stimulus word as the switched response, forced code switching with antonym of the stimulus word as the switched response. Linguistic profile test, Boston naming test and Western aphasia battery would be administered as a part of language assessment protocol. Recording of verbal output will be done for an offline analysis. Reaction time will be calculated for naming assessment. Scoring and analysis will be done. | |

|  |  |
| --- | --- |
| 1. Title of the project | *Sensitizing Teachers on Academic Problems in School Children in Karnataka* |
| Principal Investigator | Dr. Venkatesan, S. |
| Funding Agency | SSA |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 11.00 lakhs |
| Status | Ongoing |
| **Summary**: The project aims to Enhance teacher competencies in identification of children with mental retardation, slow learners, learning disabilities, speech-language delays, autism spectrum disorders and multiple handicaps in the school age groups of 6-12 years. During the year 2009-10, Nearly 14 batches of Integrated Education Resource Trainers (IERTs) were sensitized by dedicated team of resource persons on chosen topics by keeping the focus on children with academic problems in school settings. The participants were imparted training by various means including, lectures, observation, group discussions, assignments, case work, case history taking, etc. The theory practical ratio for the program was maintained at 30:70. A ‘Course Manual’ and another ‘Instructor Manual’ in English and Kannada was prepared, printed and distributed along with pamphlets and posters as part of training material in the program. The last two days of the program included presentations by the participants through song, drama, dance and/other literary presentations. The program also had an inbuilt element of process evaluation embedded within it. | |
| 1. Title of the project | *Impact Evaluation of Training Courses in Rehabilitation and Special Education Under Rehabilitation Council of India.* |
| Principal Investigator  Co-investigators | Dr. Vijayalakshmi Basavaraj  Dr. Venkatesan, S. Mrs. M.S. Vasanthalakshmi |
| Funding Agency | Rehabilitation Council of India. |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 1.90 lakhs |
| Status | Ongoing |
| **Summary**: The project aims to undertake impact evaluation of two specific undergraduate and another two identified post graduate programs related to disability rehabilitation as recognized by the RCI and conducted by particular institutions at various centers across the country. It also aimed to develop or devise appropriate tools, techniques or devices to enable impact or outcome evaluation from time to time for various or similar programs at various centers across the country. The study fallowed a cross sectional group comparison design by important parameters such as: (a) Teacher-Pupil Evaluation, (b) Process and Outcome Evaluation, (c) Temporal or Time Based Evaluation like Baseline, Mid-term and Terminal Evaluation, (d) Content Evaluation, and (e) Utility Evaluation. Field visits and data collection is completed and data analysis is ongoing. | |

**Project with AIISH Research Funds (Completed)**

|  |  |
| --- | --- |
| 1. Title of the project | *Development of intervention module for Preschool Children with Communication Disorders – Extension of Phase II* |
| Principal Investigator | Dr. Swapna, N. |
| Co-investigators | Dr. K.S. Prema & Dr. Y.V. Geetha |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 75, 000 |
| Status | Completed |
| **Summary:** The aim of this project was to develop an intervention module incorporating checklists, score sheet and activities for training children with communication disorders for ten different skills viz. self help, social, motor, cognitive, sensory, speech and language, play, pre-reading, pre-writing and pre-arithmetic skills and to assess the efficacy of the activities listed in the intervention module on children with hearing impairment (HI) and mental retardation (MR) in the age group of 3-6 years. The data was collected and analyzed. It was seen that the activities in the intervention module were effective in training the children with communication disorders and brought about a significant improvement in the child’s developmental level. | |
| 1. Title of the project | *Development of Consumer Satisfaction Inventory* |
| Principal Investigator | Dr. Geetha, Y.V. |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 1.70 lakhs |
| Status | Completed |
| **Summary:** An inventory was developed to assess the quality of clinical services received by the clients with various communication disorders. The inventory aimed to assess various aspects of service delivery such as contactability, general atmosphere and hospitality, quality of diagnostic, therapeutic and preschool services received etc. which was administered on 361 clients. It was noted that the clients were in general highly satisfied with the services received with an overall consumer satisfaction index of 93.2% on the domains assessed.   |  |  | | --- | --- | | 1. Title of the project | *Phonological Sensitivity Training Kit (PhoST-K) in Kannada* | | Principal Investigator | Dr. K.S. Prema | | Fund in **http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg** | 4.64 lakhs | | Status | Completed | | **Summary:** Phonological Sensitivity Training Kit (PhoST-K) was developed with a aim to find ‘at risk’ children for language based learning disability before their entry phases and analyzed. Outcome is to reduce the incidence and prevalence of language based learning disability in school age with the phonological sensitivity training kit. | |  |  |  | | --- | --- | | 1. Title of the project | *Development of Test for Assessment of Bilingual Proficiency through Lexical Priming Task* | | Principal Investigator | Dr. K.S. Prema | | Fund in **http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg** | 2.58 lakhs | | Status | Completed | | **Summary:** The project as aims to develop a test for assessment of bilingual proficiency using lexical priming task. Thirty bilingual participants were assessed for language proficiency using a questionnaire followed by lexical priming tasks, lexical decision task and lexical naming task. The performance on questionnaire and lexical priming task were analyzed. The outcome of the project is development of a quick and efficient online tool for assessing proficiency in bilinguals. | |  |  |  | | --- | --- | | 1. Title of the project | *Development & Evaluation of curriculum for speech-language transcription* | | Principal Investigator | Dr. K.S. Prema | | Co-investigator | Dr. Peri Bhaskara Rao | | Fund in **http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg** | 3.90 lakhs | | Status | Completed | | **Summary:** The objectives were to develop: (i) a curriculum for Speech and Language transcription, (ii) a curricular framework to train manpower for speech language transcription, and (iii) to conduct a pilot study on small group of participants to evaluate the proposed curriculum. A pilot study was conducted. Modules were developed for theory classes and practical training. Draft manuals are prepared. | |   **Project with AIISH Research Funds (Ongoing)** | |
| 1. Title of the project | *Maturation of Auditory processes in Children Aged 6-11 years* |
| Principal Investigator | Dr. Asha Yathiraj |
| Co-investigator | Dr. Vanaja, C.S. |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 3.96 lakhs |
| Status | Ongoing |
| **Summary:** This multi-centric project aims to develop and compare the maturational changes across the different auditory processes in typically developing children; and determine the hierarchy of diagnostic tests that are failed by children with symptoms of(C) APD and compare the performance of a group of children with symptoms of (C) APD with scores obtained on typically developing children in the age range of 6 to 11 years at two centers, one at Mysore and the other at Pune. Data on four auditory processes were collected (Auditory closure/monaural separation, Auditory integration, Auditory memory and sequencing abilities and Temporal processing). Till date CD of tests titled ‘Revised auditory memory and sequencing test in Indian-English’ and ‘Speech-In Noise test in Indian-English’ were developed. 2,967 children were screened for (C) APD using SCAP checklist. The test battery was administered on 140 typically developing children in the range of 6-11 years and 45 suspected (C) APD children. | |
| 1. Title of the project | *Pre-Arithmetic School Readiness Test for children with hearing Impairment* |
| Principal Investigator | Dr. Asha Yathiraj |
| Co-investigator | Dr. Gowramma, I.P., Dr. Malar, G., Ms. Prithi Nair & Ms. I. Vijetha |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 2.20 lakhs |
| Status | Ongoing |
| **Summary:** The project aims at developing a test for assessingthe readiness of children with hearing impairment in pre-arithmetic skills. Test material has been developed by referring syllabus of 10 preschools which included math concepts commonly taught in those preschools. The compiled test material was administered on 25 typically developing children ranging in the age from 5-6 years. Based on the finding of the initial pilot study, the final test is being designed. | |

|  |  |
| --- | --- |
| 1. Title of the project | *Prediction of speech identification scores using speech intelligibility index* |
| Principal Investigator | Dr. Asha Yathiraj |
| Co-investigator | Dr. Manjula, P., Prof. Vanaja, C.S., Mr. Heramba, G, & Mr. Prakash |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 2.25 lakhs |
| Status | Ongoing |
| **Summary:** This is a multi-centric project. The four centres for the study incude AIISH, Mysore; BVU, Pune; Dr. RMLH, New Delhi and SRMCRI, Chennai. The study is aimed to evaluate the relationship between the speech intelligibility and speech recognition scores in individuals with hearing impairment. The study also aims to establish a regression equation to predict the speech recognition scores from speech intelligibility index. Verification of the regression equation on different group of participants will also be carried out in the study. | |

|  |  |
| --- | --- |
| 1. Title of the project | *Process evaluation of DHLS Program conducted through Actual vis-à-vis Virtual Modes* |
| Principal Investigator | Dr. Vijayalakshmi Basavaraj |
| Co-investigator | Dr. Venkatesan, S. |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 9.00 lakhs |
| Status | Ongoing |
| **Summary:** The objective of the project is to undertake a process evaluation of DHLS program conducted through virtual mode of instruction at various centers across the country and to develop appropriate theoretical models to enable such evaluations from time to time for various programs at various centers across the country. Is in its 3rd face of extension during this reporting year. As before, the project continues to attempt a process evaluation of the ongoing DHLS program being conducted through actual vis-à-vis virtual mode of instruction at 11 centers and another 10 regular centers across the country. A new dimension added to this project during this reporting year was gathering feedback on demand analysis, details of infrastructure, job attrition and job evaluation etc. Data collection for the ongoing year is completed and analysis is going on. | |
| 1. Title of the project | *Enabling and empowering siblings of children with communication disorders* |
| Principal Investigator | Dr. Venkatesan, S. |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 4.00 lakhs |
| Status | Ongoing |
| **Summary:** The general aim of this project is to study the psychosocial correlates of siblings of children with disabilities by using standardized assessment measures and to carryout community initiatives that can help enlighten, enable, encourage and empower siblings as much as their parents or the actual children with handicaps. The specific aim of this project is to examine the knowledge, opinion attitudes of healthy siblings. In the initial stages of project, data’s were collected from the normal siblings of disabled child, by semi-structured interview, which includes various open ended questions to find out their knowledge, opinion, attitude etc., towards the affected child. It also helps to explore the physical, emotional, social and financial impact on healthy siblings. Another aim of this project is to organize short term sensitivity training program for identified group of healthy siblings from families caring for a person with disability. | |

|  |  |
| --- | --- |
| 1. Title of the project | *Impact evaluation of government benefits and concession provided to persons with mental retardation belonging to Mysore district* |
| Principal Investigator | Dr. G. Jayarama |
| Co-investigator | Dr. Kalyan Kumar, Mr. Raju and Mr. Purushotham |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 3.20 lakhs |
| Status | Ongoing |
| **Summary:** The aim of the project is to undertake a process evaluation of Monthly Pension Scheme introduced by Government of Karnataka for the individuals with mental retardation belonging to Mysore District and to develop appropriate Practical model to enable such evaluations from time to time for such programs in other districts and across the country where such scheme is being implemented. To study the attitudes of public and functionaries about the implementation of this program in the society. | |
| 1. Title of the project | *Prevalence and nature of epilepsy (Seizure Disorders) in children with communication disorders* |
| Principal Investigator | Ms. Sangeetha, M |
| Co-investigator | Dr. Geetha, Y.V. & Dr. Somanth Vasudev |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 1.31 lakhs |
| Status | Ongoing |
| **Summary:** The primary aim of the project was to determine the prevalence of epilepsy (Seizure disorders) in children with communication disorders in an Indian context, to determine the prevalence of epilepsy in different subgroups of children with communication disorders, the age of onset (both epilepsy and communication disorder), causes, type of seizure, frequency of occurrence of epilepsy and associated problems, the co-morbidity of epilepsy and the nature of communication disorder, to classify the seizure disorders causing communication disorders if possible and to develop a high-risk register for children with epilepsy as a clinical utilization measure after the study. Data collection, statistical analysis and report writing is completed. Final editing for submission of the report is in process. | |
| 1. Title of the project | *Development and Standardization of Boston Naming Test in bilinguals (Kannada-English and Telugu-English)* |
| Principal Investigator | Dr. Shyamala, K.C. |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 4.06 lakhs |
| Status | Ongoing |
| **Summary:** The aim of the project is to develop and standardize Boston Naming Test in bilinguals (Kannada-English and Telugu-English) and establish norms for an Indian context. Norms have been established for Boston Naming Test in Kannada and Indian English speakers. | |

|  |  |
| --- | --- |
| 1. Title of the project | *Cognitive Linguistic Deficits in Aphasia* |
| Principal Investigator | Dr. Shyamala, K.C. |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 2.62 lakhs |
| Status | Ongoing |
| **Summary:** The aim of the project is to investigate cognitive linguistic deficits in individuals with aphasia. Twenty normal healthy adult individuals and 20 matched right handed individuals with aphasia following left hemisphere damage are assessed for various cognitive domains using Western aphasia Battery (WAB), Addenbrooke’s cognitive Examination-revised (ACE-R) and Cognitive Linguistic Assessment protocol for adults (CLAP) as a part of cognitive linguistic assessment protocol. The data will be analyzed for various cognitive linguistic deficits present. | |
| 10.Title of the project | *Genotyping and a Genetic association study in Autism* |
| Principal Investigator | Dr. Shyamala, K.C. |
| Co-investigator | Dr. Rajashekar |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 5.72 lakhs |
| Status | Ongoing |
| **Summary:** Genetic involvement in Autism Spectrum Disorder (ASD) has been speculated a lot but less reported. Responsible genes for this has not been identified hence the study is planned to explore genetic pattern in autism spectrum disorders. Data is collected on 50 ASD children. | |
| 11.Title of the project | *Articulatory Kinematic Analysis of Stop Consonants in Normal adults in five Indian Languages using Articulograph AG 500* |
| Principal Investigator | Dr. Manjula, R. |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 2.05 lakhs |
| Status | Ongoing |
| **Summary:** The study addresses the issue of multilingual influence on spatio -temporal measures derived from Kinematic trajectories using Articulograph AG 500. It is hypothesized that there are cross language differences in the spatio-temporal dimensions of speakers belonging to different native language groups while uttering a common sound. The study analyses the spatio-temporal measures obtained from kinematic trajectories for reiterated utterances of stop consonants embedded in different vowel neighbourhood by normal adult speakers of Kannada, Telugu, Tamil, Malayalam and Hindi using Articulograph AG 500. Attempt is made to establish norms for spatio-temporal indices and velocity curves in five languages for the selected task. | |
| 12. Title of the project | *Development of Early Literacy Screening Tool* |
| Principal Investigator | Mrs. Jayashree C. Shanbal |
| Co-investigator | Dr. Goswami, S.P. |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 4.32 lakhs |
| Status | Ongoing |
| **Summary:** The project aimed to develop an early literacy screening tool to identify children with learning difficulties. The screening tool was developed in order to study the acquisition of early literacy skills in children in the age range of 3-6 years of age. The tool is in the process of field testing in the clinical population. The outcome of the project will be a screening tool for Speech-Language Pathologists which can be used to identify children at risk for learning difficulties in schools. | |
|  | |
| 13.Title of the project | *Patterns of recovery in CWS* |
| Principal Investigator | Dr. Geetha, Y.V. |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 4.71 laksh |
| Status | Ongoing |
| **Summary:** The objective of the project is to determine the proportion of children who persist in stuttering and those who recover of their own accord (spontaneous recovery), the treatment related factors contributing to recovery in CWS, and to isolate factors that govern or influence persistency and remission. | |
| 14.Title of the project | *Efficacy of Multidisciplinary Preparatory Services of AIISH in Mainstreaming Children with Communication Disorders* |
| Principal Investigator | Dr. Vijayalakshmi Basavarai |
| Co-investigators | Dr. Malar, G. Dr. Sreedevi, N. and  Mr. Suresh, C.B. |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 3.32 lakhs |
| Status | Ongoing |
| **Summary:** The project aims to surveythe impact of multidisciplinary early intervention services on children with communication disorders who were enrolled at AIISH preschool between 2004 and 2008 on their current school performance, analyze the influence of various factors on their current level of communication abilities and school performance, survey the attitudes and perceptions of teachers of the regular school in which these children are mainstreamed and Compile a battery of tools for collecting data about antecedent details of early intervention and preparatory services, current level of communicational skills and academic performance of clients, knowledge, attitude and practice status of their caregivers and teachers, and current level of supports available to children with communication disorders. Pilot study covering 11 children with communication disorders (9 with hearing impairment, 1 with mental retardation and 1 with multiple needs) was completed. | |
| 15.Title of the project | *Special Educators’ Knowledge, Attitude and Skill with Regard to Early Intervention of Children with Hearing impairment* |
| Principal Investigator | Ms. Prithi Nair |
| Co-investigator | Dr. Gowramma, I.P. |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 2.20 lakhs |
| Status | Ongoing |
| **Summary:** The aim of the project is to assess the knowledge of special educators about the early intervention strategies for children with hearing impairment, and to assess the skills possessed by the special educators in handling young children with hearing impairment. The study helps in understanding the existing knowledge, attitude of special educators about the early intervention of children with hearing impairment and also the skill they possess in handling young children with hearing impairment. Data was collected using opinion air for attitude and observation schedules for assessing the skills and checklist for knowledge. | |

|  |  |
| --- | --- |
| 16.Title of the project | *Attitudes of Pre-service Educators towards Inclusive Education* |
|  | Ms. Palnaty Vijetha |
| Co-investigator | Ms. Prithi Nair |
| Fund in http://blog.beboindia.com/wp-content/uploads/2010/07/rupees-symbol.jpg | 2.50 lakhs |
| Status | Ongoing |
| **Summary:** The primary aim of the project is to assess the attitudes of pre service educators and their teacher educators towards inclusive education. 16 B.Ed. college in and around Mysore were contacted, out of which only 13 B.Ed. colleges following B.Ed. curriculum of University of Mysore has been shortlisted to participate in the project. Totally, there were 1230 teacher trainees (English medium-199 and Kannada medium-1031) and 116 teacher educators. Simultaneously, the attitude scale had been adapted and developed based on relevant review of literature and SACIE (Sentiments, Attitudes and Concerns about Inclusive Education) scale to assess the attitudes of pre-service teachers and their teacher educators. As a part of pre-data collection samples of 288 teachers’ trainees and 3 teacher educators have been collected. In order to educate the teacher trainees and their teacher educators, resource materials in the form of brochures and orientation program have been prepared. | |

**Research Projects of Engineering Students**

The department of electronics has been identified by the Vishweshwaraiah Technological University, Belgaum, Manipal Institute of Technology, Manipal and Vellore Institute of Technology (Deemed University), Vellore as a centre for project work for their B.E., B. Tech and M. Tech students. In the report year the staff of the Department of Electronics guided the following projects.

|  |  |  |  |
| --- | --- | --- | --- |
| Sl.  No. | Names of the candidates with affiliation | Course Guided | Topic |
| 1 | Mr. Kumara, K.  Dept. of Electronics &  Communication Engineering,  SJCE, Mysore  Guide: Mr. Ajish K. Abraham | M. Tech. | Temporal distortion Analyzer for  hearing aids. |
| 2 | Mr. Sharan, K.  Mr. Rahul Salecha for Museum Access”  Mr. Rithesh, M.S.  Mr. Ravindra Babu  Dept. of Electronics & Communication, Engineering, NIE, Mysore  Guide: Mr. Ajish K. Abraham | B. E / B. Tech | Handheld Assistive device for Museum Access |
| 3 | Ms. Archana, K. V. Ms. Bhavana, S.  Ms. Deepika, B.  Ms. Shivashankari, C.  Dept. of Electronics &  Communication, Engineering,  SJCE, Mysore  Guide: Mr. Sreenivasa, S.R | B. E / B. Tech | Voice Activated switch |
| 4 | Mr. Nayan Sing  Mr. Manjesh, H. S. Mr. Govind Gowda, M. B.  Mr. Pawan Kumar, S.  Dept. of Electronics &  Communication Engineering  SJCE, Mysore  Guide: Mr. Ajish K Abraham | B. E / B. Tech | Word counter for human speech |
| 5 | Ms. Chaithra, M.A.  Department of Computer Science  SBRR Mahajana PG College  Mysore  Guide: Ms. Kalaiselvi, V. T. | B. E / B. Tech | Automation of hearing aid issue section |

1. **Awards and Honors**

Several awards were won by the faculty and students at several forums as follows:

* Basavaraj, V. (2009). received the **“**Visvesvaraya Vijnana Puruskara award at the 5th Kannada Vijnana Sammelana organized by Swadeshi Vijnana Andolana-Karnataka Bangalore organized jointly with Mangalore University at Mangalore on15.9.2009.
* Basavaraj, V., Jalvi, R. and Mathew Martin, P.J (2009) received “The Manthan Award South Asia 2009” by Techshare India 2010 for the website “Checkhearing.com” under category: e-inclusion for devising web-based interface to test hearing ability on 19.12.2009 at New Delhi.
* Muthu Selvi, T., Yathiraj, A. Dr. N.R. Chaudhary Memorial Award for the best paper in Audiology 42nd ISHACON, 22-24.1.2010. Prediction of auditory processing difficulties from the screening checklist for auditory processing (SCAP).
* Pragati, E., Manjula, R., Bhavya, M., Ramesh Chandra, I., Somy Antony received the award for their paper presented in the session on Socio economic including Economics, Politics, History, Commerce and management (Kautilyam) in the 2nd National Women’s Science Congress held at AIISH, 7-9.11.2009 for the theme Awareness amongst married and unmarried Indian women regarding consanguineous marriage: Comparison of educational, geographical, economical and social factors.
* Raheja, I., Verma, N., Sandeep, M. received best paper award in Audiology in the 42nd ISHACON, 22-24.1.2010 for the paper titled, ‘Sub cortical processing in vocal musicians and dancers’.
* Yathiraj, A. (2009) won the best paper award for the paper titled, ‘Importance of an appropriate map in cochlear implant users to develop communication using the auditory mechanism’ in 2nd National Women Congress held at AIISH, 7-9.11.2009 for the theme ‘Speech, Language, Hearing Sciences and Disorders’.

1. **Scientific papers presented in various forums**

The students and staff of the institute have shown their aptitude and interest in research. They have presented papers at National level Seminars, workshops and conferences.

1. **Paper presented at workshops/seminars held at the institute**

|  |  |  |
| --- | --- | --- |
| Authors / Coauthor | Title | Name of the seminar/ workshop |
| Aishwarya, A. & Geetha, Y.V. | Gender Differences in coping among parents of children with autism. | 2nd National Women’s Science Congress on 7-9.11.2009. |
| Anjana A V, Sharon Susan Sam, Sree Pallavi, Shyamala, K.C. | Cross Linguistic Structural Priming in Bilingual Persons with Aphasia. | International Symposium on Bilingual Aphasia held during January 4-5.1.2010. |
| George, S., Padmatharani K.S., Thomas, P.T., & Shanbal, J.C., | Linguistic profiling: A solution for diagnostic dilemma. | International Symposium on Bilingual Aphasia held during 4-5.1.2010. |
| Gopi sankar, R. & Pushpavathi, M | Speech characteristics in children with unoperated submission cleft Palate”- A retrospective study. | 2nd National Women’s Science Congress on 7-9.11.2009. |
| Gopi sankar, R. & Pushpavathi, M. | Comparision of Nasolence value in subjects with velopharyngeal dysfunction. | 2nd National Women’s Science Congress on 7-9.11.2009. |
| Hema. N, Baljeet Rana, & Shyamala, K. C. | Discourse Production in Fluent Bilingual Aphasics with CVA and TBI. | International Symposium on Bilingual Aphasia held during 4-5.1.2010. |
| Kavya V., Sreedevi, N. & Savithri, S.R. | Effect of Gender on Speech Rhythm in Kannada Speaking Children 2nd National Women’s Congress, November 2009, Mysore. | 2nd National Women’s Science Congress on 7-9.11.2009. |
| Liveem M. Tharakan, Shyamala, K. C, Bijoyaa Mohapatra | Conversational and Graphemic Output Analysis in Subcortical Bilingual Aphasia -A Case Study. | International Symposium on Bilingual Aphasia held during January 4-5.1. 2010. |
| Manju Mohan P, Swapna N | Verbal Perseveration in a bilingual aphasic: A case study. | International Symposium on Bilingual Aphasia held during January 4-5.1.2010. |
| Manju, M. P., Lakshmi, S.M, Maria, P.R., Shanbal, J.C. & Suting, L.B. | Mental Lexicon Organization in L1 and L2 in Kannada- English Bilingual Aphasic: An Investigation Based on The Hierarchical Models and Prototypicality. | International Symposium on Bilingual Aphasia held during 4-5.1.2010. |
| Mohana. P., Rupali, M. & Brajesh Priyadarshi | Developing protocol to enhance word retrieval ability using Componential Analysis for Aphasics. | 2nd National Women’s Science Congress on 7-9.11.2009. |
| Pragati, E., Manjula, R., Bhavya, M., Ramesh Chandra, I., Somy Antony | Awareness amongst married and unmarried Indian women regarding consanguineous marriage: Comparison of educational, geographical, economical and social factors. | 2nd National Women’s Science Congress held on 7-9.11.2009 jointly by Mathru Vedike and AIISH |
| Sahana, V., Kavya, V. & Savithri, S.R. | Acoustic Similarities and Differences Within and Between Speakers in Disguised Condition. | 2nd National Women’s Science Congress on 7-9.11.2009. |
| Shwetha, C., Mohana, P., Shyamala, K. C. | Motivational Factors in Individuals with Bilingual Aphasia. | International Symposium on Bilingual Aphasia held during 4-5.1.2010. |
| Shymala, K.C. | Comparison of markedness of lexical semantic abilities in normal children and children with hearing impairment. | 2nd National Women’s Science Congress on 7-9.11.2009. |
| Shymala, K.C. | Gender differences in communication disorders: A metaanalytic study. | 2nd National Women’s Science Congress on 7-9.11.2009. |
| Sri Pallavi, M., Anjana, A.V, Shylaja, K., Sunil Kumar, R. & Shyamala, K.C. | Comparison of Confrontation and Generative Naming Abilities in Bilingual Persons with Aphasia and Dementia. | International Symposium on Bilingual Aphasia held during 4-5.1.2010. |
| Sunil Kumar, R., Gnanavel, K Vishnu,K. K. & Shyamala. K.C | Action Naming In Bilingual (Kannada – English) Aphasics: Implications to Models of Lexical Organization*.* | International Symposium on Bilingual Aphasia held during 4-5.1.2010 |
| Swapna, N., Raheela. Q & Priyanka. | Speed of processing in children with learning disability on linguistic and non-linguistic tasks. | 2nd National Women’s Science Congress on 7-9.11.2009 |
| Verma, N., Raheja, I. & Jayashree C Shanbal | Lexical organization for reading in bilingual aphasics. | International Symposium on Bilingual Aphasia held during 4-5.1.2010 |

1. **Paper presented at the National Seminars/Conferences/Workshops held outside AIISH**

|  |  |  |
| --- | --- | --- |
| Author / Coauthor | Title | Name of the seminar/ workshop |
| Ajish K Abraham | Technology & Instrumentation for Speech & Hearing. | “RCI-CRE program” organized by Sweekar Rehabilitation Institute for Handicapped, Secunderabad, from 22-23.10. 2009. |
| Ajish K Abraham | Active Noise Cancellation of HVAC System Noise in Audiometric Test Rooms. | International Conference on Electronic Design & signal processing – ICEDSP09 organized by Manipal Institute of Technology, Manipal, from 10-12.12. 2009. |
| Greeshma, R.K., & Rajalakshmi, K. | Screening for hearing loss in persons with cerebral palsy using contralateral acoustic reflex threshold for broadband noise. | 42nd ISHACON held at Bangalore on 22-24.1.2010 |
| Ishita, R., Neha, V., & Sandeep, M. | Sub cortical processing in vocal musicians and dancers. | 42nd ISHACON held at Bangalore on 22-24.1.2010. |
| Kavya V., Sreedevi N., Savithri S.R. | Speech Rhythm in Kannada Speaking Children. | 13th National Symposium on Acoustics, November 2009, Hyderabad. |
| Kumari, A. &  Devi, N., | Effect of sensorineural hearing loss on speech evoked aided auditory late latency response. | 42nd ISHACON held at Bangalore on 22-24.1.2010. |
| Manjula, P. | During panel discussion at the national meet of ADIP implementing agencies   1. AIISH as an implementing agency a paper 2. Issues in implementing ADIP scheme. | AYJNIHH, Goa, 30.9.2009 to 1.10.2010 |
| Muthu Selvi, T., & Yathiraj, A. | Prediction of auditory processing difficulties from the screening checklist for auditory processing (SCAP). | 42nd ISHACON held at Bangalore on 22-24.1.2010 |
| Nisha K.V., Steby, S Yathiraj, A. | Loudness perception of vowels as a function of presentation levels in children using cochlear implants. | 42nd ISHACON held at Bangalore on 22-24.1.2010 |
| Prajeesh, T., Aparna, T.H., & Vinay, S.N. | Role of efferent activity on training induced perceptual learning. | 42nd ISHACON held at Bangalore on 22-24.1.2010 |
| Prathibha K.K., & Sandeep, M | Speech evoked ABR as an objective tool for brainstem encoding. | 42nd ISHACON held at Bangalore on 22-24.1.2010 |
| Rajasudhakar, R. & Savithri, S.R. | Fundamental Frequency and Perturbation Changes under Voice Loading. | 13th National Symposium on Acoustics, November 2009, Hyderabad |
| Rajasudhakar, R. & Savithri, S.R. | Laboratory Performance of High- tech (APM) vs Low- tech (DAT) method in Quantifying Vocal Load Parameters- A Comparative Study. | 42nd National Convention of Indian Speech and Hearing Association (ISHA), January 2010, Bangalore. |
| Rajesh, Tripathy, Udit Saxena & Rajalakshmi, K | Objective evaluation of temporal processing in normal hearing children and children with learning disability. | 42nd ISHACON held at Bangalore on 22-24.1.2010. |
| Ranjini, M., Maria, P.R., & S.P.Goswami | Action verb naming in bilingual children and adolescent. Poster paper. | 42nd ISHA-CON held at Bangalore on 22-24.1.2010. |
| Renjini, A.M., Preethi, R., & Barman, A. | Relationship between the characteristics of hearing loss and tinnitus. | 42nd ISHACON held at Bangalore on 22-24.1.2010. |
|  |  |  |
| Sahana V., Kavya V. Savithri, S.R. | Acoustic Similarities and Differences Within and Between Speakers in Disguised Condition. | 13th National Symposium on Acoustics, November 2009, Hyderabad. |
| Sangeetha, M. Priya, M.B. & Pushpavathi, M | Nasalance Value for English Passage in Kannada Speakers”: A Preliminary Study a paper presented. | 5th Kannada Vignnyana Samellana, Swadeshi Vignnyana Andolana Karnataka, Bangalore on 15-17.9. 2009. |
| ShilpaShree, Yashaswini., & Sangeetha.M | Electroglotto graphic analysis in individuals with chronic laryngitis during speech task, Poster paper. | 42nd ISHA-CON held at Bangalore on 22-24.01.2010. |
| Sujeet K.S &  Basavaraj, V. | Lateral asymmetry in speech processing at the brainstem: evidence from speech evoked ABR. | 42nd ISHACON held at Bangalore on 22-24.1.2010 |
| Udit Saxena, Rajesh Tripathy, & Rajalakshmi, K. | Electrophysiologic evaluation of the effect of the background noise on sound processing in children and adults. | 42nd ISHACON held at Bangalore on 22-24.1.2010 |
| Udit Saxena, Rajesh Tripathy, Rajalakshmi, K. | The role of efferent auditory system in temporal processing in different age groups. | National Symposium on Acoustics (NSA) 2009 at Hyderabad 26-28.11.2009 |
| Varsha H., Shailaja, S., & Sandeep M. | Consequence of long standing auditory dyssynchrony on voice. | 42nd ISHACON held at Bangalore on 22-24.01.2010 |
| Venkatesan, S. | Cultural Factors in Clinical Assessment: The Indian Perspective | 36th National Annual Conference of Indian Association of Clinical Psychologists (NACIAPP-2010) at NIMHANS, Bangalore on 1-3.2.2010. |
| Vinni, C., Rasha, S.J., & Manjula P | Evaluation of performance of a receiver-in-the-canal hearing aid with open and occluded fitting. | 42nd ISHACON held at Bangalore on 22-24.1.2010 |
| Yashaswini, L., Shilpashree, P., & Ramadevi, K.J. | Evaluation of satisfaction measures in digital hearing aid users. | 42nd ISHACON held at Bangalore on 22-24.1.2010 |
| Zebu, Y.T., Rajesh T., & Mamatha, N.M. | Relation between acceptable noise level, word recognition in noise and measures of auditory efferent activity: Implication for hearing aid fitting. | 42nd ISHACON held at Bangalore on 22-24.1.2010 |

1. **Papers presented at the International Seminars/ conferences / workshops**

|  |  |  |
| --- | --- | --- |
| Author | Title | Name of the Conference/Workshops/Seminars |
| Rajasudhakar R., Savithri S.R | Voicing Periods in Daily and Weekly Speech of a Primary school Teacher | 11th International symposium on Frontiers of Research on Speech and Music (FRSM) of the Sangeeth Research Academy, December 2009, at Gwalior. |
| Shymala K.C | Bi/Multilingualism & Issues in the Assessment and Management of Communication Disorders. | Invited Keynote address at 7th International Symposium on Bilingualism (ISB7) held from 8-11 July 2009 at Utrecht, Netherlands. |

1. **Doctoral Program**

Various Doctoral Programs conducted at the Institute under the guidance of the faculty of the institute are detailed below:

**Ph.D Awarded**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Name of the Candidate | Title of the Thesis | **Guide** |
| 1. | Ananthi T. | Prosodic Correlates of Stuttering : A Pre Post Therapy Comparison | Dr. Savithri, S.R. |
| 2. | Kalai Selvi P.S. | Analysis of voice in a group of Yakshagana folk artists | Dr. Jayaram, M. |
| 3. | Preeja Balan | Mother-child interaction: Communication in children with cerebral palsy using AAC | Dr. Manjula, R. |
| 4. | M. Sandeep | Long term sequel of otitis media on speech processing and perception | Dr. Jayaram, M. |
| 5. | Vijay Kumar Narne | Perception of spectral temporal modification of speech in individuals with auditory dyssynchrony | Prof. Vanaja, C.S. |

**Ph.D Theses Submitted**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Name of the Candidate | Title of the Thesis | Guide |
| 1. | Powlin Arockia Catherine S. | Effect of temporal and spectral variations on phonemic identification skills in late talking children | Dr. Savithri, S.R. |

**Ph.D under Progress (Internal Candidates)**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Name of the Candidate | Title of the Thesis | Guide |
| 1. | Anjana B Ram | Disfluencies in 1.1-6 year old Kannada speaking children. | Dr. Savithri, S.R. |
| 2. | Devi, N.  Lecturer | Auditory evoked potential correlation of speech and music in musicians and non-musicians. | Dr. Basavaraj, V. |
| 3. | Deepa, M.S. | Discourse in Bilingual individuals with Demantia and Aphasia. | Dr. Shyamala, K.C. |
| 4. | Gopi Sankar | Some acoustic and perceptual parameters of cleft palate speech: A pre-post operative condition. | Dr. Pushpavathi, M. |
| 5. | Ganapathy, M.K. JRF | Effect of age and noise on acoustic change complex – An electrophysiological study. | Dr. Basavaraj, V. |
| 6. | Hemanth, N. JRF | The Effect of amplification on objective measure at brainstem and cortical level and behavioral measure in individuals with peripheral hearing impairment. | Dr. Manjula, P. |
| 7. | Hema N. | Discourse Analysis in Bilingual Aphasic & Non Aphasic TBI. | Dr. Shyamala, K.C. |
| 8. | Jayakumar, T. | Voice Characteristics in Monozygotic twins. | Dr. Savithri, S.R. |
| 9. | Jijo, JRF | The effect of enhancement of amplitude and durational cues on speech perception in individuals with auditory neuropathy spectrum disorders. | Dr. Yathiraj, A. |
| 10. | Jayashree C Shanbal | Acquisition of biliteracy in children | Dr. Prema, K.S. |
| 11. | Prawin Kumar | Effect of self-learning  Training. | Dr. Yathiraj, A. |
| 12. | Purushotham, P. | Development of Correctional strategies for Number Remediation in Preschool and Primary School Children. | Dr. Venkatesan, S. |
| 13. | Radhakrishnan | Computerized Auditory Visual Integration Training for Communication in persons with Aphasia – In Tamil (CAVICAT). | Dr. Goswami, S.P. |
| 14. | R. Rajasudhakar | Voicing periods in daily and weekly speech of primary school teachers: Occupational voice measurements. | Dr. Savithri, S.R. |
| 15. | Sujeet Kumar Sinha JRF | Brainstem encoding of speech sounds in the aging auditory system- An electrophysiological study. | Dr. Basavaraj, V. |
| 16. | Shilpashri, H.N. | Development of Pragmatic Skill in Autism Spectrum Disorders. | Dr. Shyamala, K.C. |
| 17. | Santosh Kumar | Aphasia Comprehension Test –Hindi (ACT-H). | Dr. Goswami, S.P. |
| 18. | Sangeetha Mahesh | Linguistic Variability in Mono lingual and bilingual children with stuttering. | Dr. Geetha, Y.V. |
| 19. | Sarika Khurana | Development of Emergent literacy in Kannada speaking English Language learners. | Dr. Prema, K.S. |
| 20. | Yeshoda, K. | Importance of some spectral and temporal parameters in speaker identification | Dr. M. Jayaram |

**Ph.D under Progress (External Candidates)**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Name of the Candidate | Title of the Thesis | Guide |
| 1. | Delcy Janet, J. | Auditory Perception test in Tamil (APTT) – A tool for the assessment of auditory perception skills of children with hearing impairment in Tamil language. | Dr. Rajalakshmi, K. |
| 2. | Mili Mary Mathew | Development of Gesture & Speech in typical developing Children (1-12 months of age) exposed to Kannada. | Dr. Manjula, R. |
| 3. | Ranganathan M | Development of a test tool for assessment of memory (working memory) in children | Dr. Rajalakshmi, K. |

**Ph.D under progress (External candidates) Psychology**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Name of the Candidate | Title of the Thesis | Guide |
| 1. | Ayatollah Karimi | Development of Mathematics Anxiety Scales for High School students in India and Iran. | Dr. Venkatesan, S. |
| 2. | Mr. Govindaraju, R. | A study of School Drop Outs in Rural Settings. | Dr. Venkatesan, S. |
| 3. | Mr. Ganesha | Behavior Problems in Children from Single Parent Families. | Dr. Venkatesan, S. |
| 4. | Ramesh, C.G. | A Comparative Study of the Sports Aptitude and Interest between Children with Learning Disability and Normal’ Children | Dr. Venkatesan, S. |
| 5. | Mr. Sudarshan | A Study of Psychosocial Factors in Anti-Retroviral Drug Compliance for Rural Women afflicted with HIV/AIDS. | Dr. Venkatesan, S. |

1. **Master’s Dissertations**

Final year post-graduate students of the institute work on their dissertation under the guidance of the faculty of the Institute in the Department of Audiology, Department of Special Education, Department of Speech-Language Pathology, Department of Speech-Language Sciences, and Department of Clinical Services.

1. **Dissertations Submitted by M.Sc (Audiology) students**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Name | Title | Guide |
| 1. | Arunraj K. | Dichotic word test in Indian English speaking children – A normative data. | Ms. Devi, N. |
| 2. | Bhavya M. | Comparison of acceptable noise using FM and directional microphone in a digital hearing aid | Ms. Mamatha, N. M. |
| 3. | Chabbra Gurdeep Singh | Dichotic word test in Kannada speaking children – A normative data. | Ms. Devi, N. |
| 4. | Jawahar Antony, P. | PAMR as a tool to measure hearing sensitivity in individuals with normalcy and hearing impairment. | Dr. Animesh Barman |
| 5. | Kurode Nikhil Prakash | Verification of hearing aid selection using visible speech and SII. | Prof. Manjula, P. |
| 6. | Lalmangaihai | Development and standardization of spondee and PB-word list in Mizo language. | Dr. Basavaraj, V. |
| 7. | Manasa Madappa | VEMP in individuals with NIHL | Ms. Mamatha, N. M. |
| 8. | Meenakshi Dayal | Comparison of functional gain and insertion gain in non-linear hearing aids. | Prof. Manjula, P. |
| 9. | Megha | Frequency discrimination and speech perception in individuals with and without cochlear dead regions. | Mr. Vinay, S. N |
| 10. | Muthuselvi, T. | Utility of SCAP for screening APD children. | Prof. Yathiraj, A. |
| 11. | Pooja Dayal | Consequence of impaired auditory signal processing on speech production in individuals with auditory dyssynchrony. | Dr. Sandeep, M. |
| 12. | Ramesh Chandra, I. | Relationship between ALLR and speech identification scores in individuals with auditory neuropathy. | Dr. Animesh Barman |
| 13. | Md. Ismail, S. | Optimizing gain and compression ratio of a hearing aid using ASSR. | Prof. Manjula, P. |
| 14. | Sasmita Behera | Evaluation of aided TEN test for diagnosis of cochlear dead regions. | Dr. Vinay, S. N. |
| 15. | Sharath Kumar, K.S. | Multifrequency, multicomponent tympanometry: Normative in kinder garten and preschool children (3-6 years). | Dr. Basavaraj, V. |
| 16. | Shruthy Hrishikesan | Efficacy of non-linear frequency amplification in high frequency sensory neural hearing loss. | Prof. Manjula, P. |
| 17. | Shuchi Garg | Relation between SIS and AEPs in learning disability. | Dr. Animesh Barman |
| 18. | Sinthiya, K. | Development of high frequency word list in Tamil. | Dr. Sandeep, M. |
| 19. | Tamanna Khurana | Binaural fusion test in Kannada development and standardization for children. | Prof. Manjula, P. |
| 20. | Vivekanandh, M. | Utility of VEMP in the differential diagnosis of various vestibular disorders. | Dr. Animesh Barman |

1. **Dissertations submitted by M.Sc. (Speech-Language Pathology) students**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Name | Title | Guide |
| 1. | Akanksha Gupta | Reliability of perception evaluation of voice using CAPE – V rating scale in Indian context. | Dr. Pushpavathi, M |
| 2. | Aiswarya Anand | Effect of Pranayama in the treatment of stuttering. | Dr. Geetha, Y.V. |
| 3. | Amith Kishore | A preliminary investigation into the cognitive abilities of PWS using Simon and Stroop task. | Dr. Geetha, Y.V. |
| 4. | Annapurna, S.B. | Norms for forced & slow vital capacity in adult Dravidian population. | Dr. Sreedevi, N. |
| 5. | Chaitra, S. | Manual for Adult fluent aphasia therapy in Kannada (M AFAT-K). | Dr. Goswami, S.P. |
| 6. | Devika, M.R. | Symbolic play and language development: Its relationship in late talkers . | Dr. Swapna, N. |
| 7. | Devi, R. | Normative nasalence value in Malayalam Language. | Dr. Pushpavathi, M |
| 8. | Gnanvel | Subtyping of children with developmental dyslexia: Implications through dual-route cascaded model. | Ms. Jayashree C Shanbal |
| 9. | Kuppuraj, S. | Profile for assessment of dyslexia in Indian children (PADIC). | Ms. Jayashree C Shanbal |
| 10. | Meerapriya, C.S. | Clinical protocol for assessment of swallowing ability in adults. | Dr. Manjula, R. |
| 11. | Navitha, U. | Comprehensive language assessment test for children | Dr. Shyamala K.C. |
| 12. | Pravesh Arya | Normative nasalence value in Hindi Language. | Dr. Pushpavathi, M. |
| 13. | Pallavi Malik | The word order in hearing impaired sign language users: Influence of verbal native language? | Dr. Manjula, R. |
| 14. | Priya, M.B. | Metalinguistic abilities in children with developmental dyslexia: Implications in Reading. | Dr. Manjula, R. |
| 15. | Prathima, S. | Articulatory acquisition in Kannada speaking urban children: 3-4 years. | Dr. Sreedevi, N. |
| 16. | Ramya Maitreyee | Language proficiency questionnaire: An adaptation of LEAP-Q in Indian Contexts. | Dr. Goswami, S.P |
| 17. | Ridhima Batra | Paraphasias in bilingual aphasia. | Dr. Shyamala K.C. |
| 18. | Samasthitha, S. | Metaphonological abilities in monolingual and bilingual children: A comparative study. | Dr. Goswami, S.P. |
| 19. | Sunil Kumar Ravi | Dementia Assessment Battery (DAB-K). | Dr. Shyamala K.C. |
| 20. | Sweety Joy | Vocal Registers in classically trained Carnatic singers: An inquiry using Electroglottography. | Ms. Yeshoda, K. |

1. **Dissertations submitted by M.S.Ed (HI) students**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Name | Title | Guide |
| 1. | Asha, S.A. | Study of usefulness of selected traditional games and play activities in pre-academic training of preschool children with hearing impairment. | Dr. Malar, G. |
| 2. | Gangadharan, B. | Awareness, attitude and competencies in mainstream educators for inclusive education for children with hearing impairment. | Dr. Malar, G. |
| 3. | Hemaprasad Rao, B. | Study of effectiveness of creative teaching methods in social science (Geography) instruction for higher primary children with hearing impairment. | Dr. Malar, G. |
| 4. | Leena, C.C. | Study of effectiveness of individualized educational programme in instruction of pre-school children with hearing impairment. | Ms. Prithi Nair |
| 5. | Sivakumar, V. | Study of effectiveness of adaptation technique in teaching history to children with healring impairment in Grade VII of Andhra Pradesh State Education Board. | Ms. Palnaty Vijetha |

1. **Projects submitted by PGDFST, PGDCL students**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Name | Title | Guide |
| 1. | Anusha B | Linguistic Assessment in Child Language Disorders. | Dr. Shyamla K.C |
| 2. | Jyotsna | Lingustic Assessment in Adult Language Disorders. | Dr. Shyamla K.C |
| 3. | Lakshmi Prasanna | Benchmark for speaker identification using vectors F1 ~ F2. | Dr. S.R. Savithri |
| 4. | Shersingh Jakhar | Benchmark for speaker identification using cepstral coefficients. | Dr. S.R. Savithri |
|  |  |  |  |

1. **Dissertation submitted by M.Phil students**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Name | M.Phil Programs | Guide |
| 1. | Ms. Anupama | General Health Perceptions in Geriatric Individuals; M.Phil Program in Psychology from Sree Venkateswara University, Tirupathi. | Dr. Venkatesan, S. |
| 2. | Mr. Johnson | Study of level of Anxiety and perceived social support among 10th standard students; M.Phil Program in Psychology from Sree Venkateswara University, Tirupathi. | Dr. Venkatesan, S. |
| 3. | Mr. Pratap | Assessment of depression among diabetic and nondiabetic people. | Dr. Venkatesan, S. |

1. **Dissertations under progress M.Sc. (Audiology)**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Name of the candidate | Title of the Dissertation | Guide |
| 1. | Anuprasad | WARP processing vs. conventional processing. A comparative study in individuals with sensorineural hearing loss. | Ms. Mamatha, N.M. |
| 2. | Archana | Test battery for music perception in individuals using hearing devices. | Prof. Manjula, P. |
| 3. | Badariya, M. | Effect of age on fatiguing characteristics of efferent inhibition. | Dr. Sandeep, M. |
| 4. | Bhavya Rani, M.S. | Evaluation of speech evoked ABR for selection of hearing aids. | Dr. Basavaraj, V. |
| 5. | Chayakant Patro | Lexical neighbourhood test: an Indian-English version for children. | Prof. Yathiraj, A. |
| 6. | Darshan, S. | Temporal fine structure (TFS) sensitivity in individuals with normal hearing and sensorineural hearing loss. | Ms. Mamatha, N.M. |
| 7. | Dhanya, M. | OAE profile in individuals with tinnitus. | Dr. Animesh Barman |
| 8. | Divya Joseph | Conventional BTE vs.RIC (Receiver-in-the-canal) BTE hearing aids: A comparative study on perceptual and acoustic analysis of speech and music. | Dr. Sandeep, M. |
| 9. | Giridhar Krishnan | Dichotic rhyme test in Malayalam: A normative data on adults. | Dr. Rajalakshmi, K. |
| 10. | Hasna Fathima | Effect of prescriptive formulas on music perception in hearing aid users. | Dr. Basavaraj, V. |
| 11. | Kamala Sarathy | Effect of syllabic and dual compression on speech identification score across different degrees of hearing loss. | Ms. Devi, N. |
| 12. | Kumari Apeksha | Effect of sensorineural hearing loss and digital hearing aid on speech evoked auditory later latency response. | Ms. Devi, N. |
| 13. | Love Deep | Development and standardization of spondee work list in Rajasthani language. | Dr. Rajalakshmi, K. |
| 14. | Mohan | Maturation of the cortical evoked potential. | Dr. Animesh Barman |
| 15. | Nayana, S. | Development of the profile for evaluating hearing aid benefit in children. | Ms. Devi, N. |
| 16. | Neeraja Singh | Findings of Cochlear Hydrops Analysis Masking Procedure (CHAMP) in subjects with suspected and confirmed Meniere’s disease. | Dr. Basavaraj, V. |
| 17. | Prashanth, P.P. | Development of auditory comprehension test for children in Kannada. | Prof. Manjula, P. |
| 18. | Prashasti | Compressive non-linearity in sensorineural hearing loss – validates through electrophysiological test. | Dr. Rajalakshmi, K. |
| 19. | Prathibha, K.K. | Efficacy of ASSR as a tool for estimating loudness growth in children. | Dr. Rajalakshmi, K. |
| 20. | Priyanka, M. | Neurophysiological correlates of auditory training – brainstem and cortical structures. | Dr. Sandeep, M. |
| 21. | Ramya | Earmold modifications and its effect on different subjective and objective measures. | Prof. Manjula, P. |
| 22. | Rathnakar | High frequency speech identification test in Telugu. | Ms. Mamatha, N.M |
| 23. | Reesha | Music perception in audio and audio-visual impaired. | Ms. Devi, N. |
| 24. | Rohith, H. | Auditory evoked cortical responses in children using speech and non-speech stimuli. | Dr. Animesh Barman |
| 25. | Sarooj | Evaluation of performance with open fit and occluded RIC hearing aid. | Prof. Manjula, P. |
| 26. | Sreela | Effect of reverberation on speech identification scores of digital hearing aid users. | Ms. Devi, N. |
| 27. | Swagathika | Effect of hormonal influence during menstrual cycle on immittance findings. | Ms. Mamatha, N.M |
| 28. | Udith Saxena | Effect of background noise on temporal processing in children and young adults. | Dr. K.Rajalakshmi |
| 29. | Usha Shastry | Comparison of performance with BAHA and air conduction hearing aids in individuals with conductive hearing loss and mixed hearing loss. | Prof. Manjula, P. |
| 30. | Vijayakumar | Effect of fine grain auditory training in the perception of voicing of stops in individuals with auditory dys-synchrony. | Prof. Yathiraj, A. |
| 31. | Vinu Francis | VEMP in individuals with Otitis media. | Dr. Animesh Barman |
| 32. | Vivek Mandal | Effect of aging on VEMP. | Dr. Animesh Barman |

1. **Dissertations under progress M.Sc (Speech-Language Pathology)**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Name of the candidate | Title of the Dissertation | Guide |
| 1. | Aparna, V.S | Benchmark for speaker identification using glottal source parameter in Hindi speakers. | Dr. S.R. Savithri, |
| 2. | Ashwathy | Agrammatism in children with Hearing Impairment. | Dr. Shyamala, K.C. |
| 3. | Anjana | Cognitive communicative assessment protocol for dementia in Malayalam. | Ms. Jayashree C Shanbal |
| 4. | Anil Kumar | Treatment Manual for Anomic Aphasia in Hindi. | Ms. Jayashree C Shanbal |
| 5. | Bijoyaa Mohapatra | Development of Revised Test in Oriya. | Dr. Goswami, S.P |
| 6. | Bhuvaneshwari | English language test for Indian children (ELTIC). | Ms. Jayashree C Shanbal |
| 7. | Deepa Anand | Re-standardization of KAT | Dr. .S.R. Savithri, |
| 8. | Divya, P. | Articulatory acquisition in Malayalam speaking urban children: 2-3 years. | Dr. Sreedevi, N. |
| 9. | Gayathri Krishnan | A self-therapy manual in English for the management of speech and swallowing disorders in persons with Parkinson’s disease. | Dr. Manjula, R. |
| 10. | Jyoti, S. | Benchmark for speaker identification using LTAS in Kannada speakers. | Dr. .S.R. Savithri, |
| 11. | Jasmin Malik | Attitudes and coping strategies in adults with stuttering. | Dr. Y.V. Geetha |
| 12. | Liveem. M. T. | Agrammatism in children with Mental Retardation. | Dr. Shyamala, K.C. |
| 13. | Lakshmi Mohan | Cognitive Linguistic assessment Protocol in Malayalam: An adaptation of CLAP in Kannada. | Dr. Goswami, S.P |
| 14. | Lincy Mary Varghese | Development of Revised Token Test in Malayalam. | Dr. Goswami, S.P |
| 15. | Mohana | Spoken language proficiency in bilingual children with Learning Disability. | Dr. Shyamala, K.C. |
| 16. | Mahesh B.V.M | Performance of stutterers on self select reaction time paradigm using speech and non speech tasks. | Dr. Manjula, R. |
| 17. | Merin John | Computerized assessment tool for phonological processes: A preliminary study. | Dr. Sreedevi, N. |
| 18. | Manju Mohan | Verbal perseveration in Malayalam – English bilinguals. | Dr. Swapna, N. |
| 19. | Maria | Developmental patterns of syntax in 3-6 year old Malayalam speakers – A computerized approach. | Dr. Swapna, N. |
| 20. | Nisha Sudhi | Gender differences in the nature of disfluencies in children with stuttering. | Dr.Y.V. Geetha |
| 21. | Priyashri, S. | Resource manual for training children with communication disorders (3-8 years) in multisensory skills. | Dr. Manjula, R. |
| 22. | Ranjini, M. | Effect of training on voice of Carnatic singers. | Dr. .S.R. Savithri, |
| 23. | Rupali Mathur | Protocol for measuring participation of Persons with Aphasia. | Dr. Goswami, S.P |
| 24. | Ranjini. R. | Treatment manual in English for Indian children with dyslexia. | Ms. Jayashree C Shanbal |
| 25. | Shweta, C. | Vocal load in UG students of SLP. | Dr. .S.R. Savithri, |
| 26. | Sri Pallavi | WAB in Telugu. | Dr. Shyamala, K.C. |
| 27. | Shafna | Agrammatism in children with Autism. | Dr. Shyamala, K.C. |
| 28. | Shylaja | Nonword Repetition in children with language impairment : An Exploratory Study. | Dr. Swapna, N. |
| 29. | Sharon Susan Sam | Effects of aging on naming in bilingual older adults. | Ms. Jayashree C Shanbal |
| 30. | Sheetal | Written languages skills in children with learning disability. | Ms. Sangeetha, M |
| 31. | Tiffy George Roy | Usefulness of Cognitive cueing in Eliciting Vocal Variability and Vocal Naturalness. | Ms. Yeshoda, K. |
| 32. | Usharani, K. | Articulatory acquisition in Telugu speaking urban children: 2-3 years. | Dr. Sreedevi, N. |
| 33. | Veena K.D | Cognitive Linguistic assessment Protocol in Telugu: An adaptation of CLAP in Kannada. | Dr. Goswami, S.P |
| 34. | Yashaswini, R. | Linguistic and metalinguistic abilities in children with and without stuttering. | Dr.Y.V. Geetha |
| 35. | Yashomathi | Comparison of signed vocabulary of Indian sign language (ISL) users with that of Signed English (SE) | Dr. Manjula, R. |

1. **Dissertations under progress M.S.Ed (HI)**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Name of the candidate | Title of the Dissertation | Guide |
| 1. | Dilip Kumar Dikshit | Development of Grande Level Assessment Test in English for Grade V. | Ms. Vijetha, P. |
| 2. | Durgesh Kumar Mishra | Development of Orientation Materials for Mainstream Educators on Classroom Management of Children with Hearing Impairment & Studying its Efficacy. | Ms. Prithi, N. |
| 3. | Sudhakar Jha | Survey of Involvement of Caregivers in Education of Children with Hearing Impairment in Mysore. | Dr. Malar, G. |
| 4. | Sujeet Kumar | Development of Grade Level Assessment Test for in Mathematics for Grade V. | Dr. Malar, G. |

1. **Project sunder progress- PGDFS&T, PGDCL**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Name | M.Phil Programs | Guide |
| 1. | Mandira B | Phonemic paraphasia in aphasic population. | Dr. Shyamala, K.C. |
| 2. | Rini M | Comparison between written and spoken narratives in aphasia. | Dr. Shyamala, K.C. |
| 3. | Thulasi P | Linguistic profile of bilinguals with attrition of L1 due to L2 effects | Dr. Shyamala, K.C. |