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Research Highlights

The All India Institute of Speech and Hearing is the leading organization in the country in conducting both basic and applied research related to speech, language and hearing and related fields of knowledge. Research activities of the institute come under two broad categories: (a) Faculty research and (b) Student Research.

**I. Faculty Research**

 There are two types of faculty research

1. Extramurally Funded Research
2. Intramurally Funded Research

Extramurally funded research projects are sponsored by national and international agencies like Department of Science & Technology, Govt.of India and World Health Organization. During the year under report, 4 projects were successfully completed under extramural fund and 4 projects were going on. The completed projects were as follows:

1. *Issues and strategies for development of human resources for deafness prevention, identification and management*. `.2 lakh project work under the supervision of Dr. Vijayalakshmi Basavaraj, Ex - Director and Dr. Manjula P, Professor in Audiology, sponsored by World Health Organisation
2. *Design and development of speech enhancer*. `.2 lakh project work, under the supervision of Sri. Ajish K. Abraham, Reader in Electronics, sponsored by the Society for Biomedical Technology.
3. *Comparative efficacy of BTEs over body level hearing aids in the development of speech and language among the hearing impaired children*. `.2,17,000/- project work under the supervision of Dr. M. Jayaram, Professor in Speech – Language Pathology and Audiology, NIMHANS, Bangalore and Dr. Manjula P, Professor in Audiology, sponsored by DRC (S&T).
4. *Support for the dissemination and use of hearing aids*.

 ` 2,17,000 project work under the supervision of

Dr. Vijayalakshmi Basavaraj, Ex- Director and Dr. Manjula P, Professor in Audiology, sponsored by World Health Organisation.

The ongoing extramurally funded research projects are the following:

1. *Impact evaluation of training courses in rehabilitation and special education* ` *2.2 lakhs project work under Dr. Vijayalakshmi Basavaraj and Dr. S. Venkatesan, sponsored by the Rehabilitation Council of India, Ministry of Social justice & Empowerment, Government of India.*
2. *Language and brain organization in normative multilingualism.* ` *12, 84,000 project work under the supervision of Dr. Shyamala. K.C, Professor in Language Pathology, sponsored by Department of Science and Technology, Ministry of Science and Technology, Govt of India.*
3. *Sensitizing teachers on academic problems in school children in Karnataka.* ` 14 lakhs project work under the supervision of Dr. S. Venkatesan, Professor in Clinical Psychology, sponsored by Sarva Siksha Abhiyan, Ministry of Human Resources Development, Govt. of India.
4. *Development of speech rhythm in Kannada speaking children.* ` 19,44,360.00 project work under the supervision of Dr S.R.Savithri, Director and Dr. N. Sreedevi, Lecturer in Speech Sciences, sponsored by the Dept. of Science and Technology, Ministry of Science and Technology, Govt.of India.

Intramurally funded research projects are sponsored by the institute through the AIISH Research Fund (ARF).During the year under report, the institute faculty successfully completed 14 research projects and 58 projects were going on under ARF. Some of the completed projects are:

1. *Development and evaluation of curriculum for speech-language transcription.* ` 3, 94, 000/- project work under the supervision of Dr. K.S. Prema, Professor in Language Pathology and Dr. Peri Bhaskara Rao, University of Tokyo, Japan.
2. *Development of consumer satisfaction inventory*. ` 2 lakhs project work under the supervision of, Dr. Y.V.Geetha, Professor, Speech - Language Science.

The ongoing intramurally funded research projects included the following:

1. *Maturation of auditory processes in children aged 6-11 years.* ` *3,90,000/- project work under the supervision of Dr. Asha Yathiraj,Professor in Audiology and Dr. Vanaja C.S, Lecturer in Audiology.*
2. *Impact evaluation of government benefits and concession provided to persons with mental retardation belonging to Mysore district.* ` *3,20,000 project work under the supervision of Dr.G.Jayaram, Reader in Clinical Psychology.*

**II. Student Research**

Student researches are being carried out at the institute under the supervision of experienced faculty members. These include: (a)Doctoral and Post-doctoral Research and (b) Postgraduate Research.

**Doctoral and Post-doctoral Research**

By the end of the reporting year, 2 PhD students were awarded doctoral degree. They are : Ms. Powlin Arokia Catherine and Ms. Jayashree C. Shanbal.

In addition to this, 4 students submitted their research report for evaluation and 29 others were pursuing their Ph.D. Also, one student was pursuing post-doctoral research.

**Postgraduate Research**

All the students pursuing their postgraduate degree under various specialisations have to undertake a research project / dissertation as a part of their course work. 71 postgraduate dissertations were completed and 89 were under progress by the end of last year.

In addition to the postgraduate research conducted by the students of the institute, facilities and guidance are being provided for carrying out dissertation works to the student in other institutions. Last year, 12 B.Tech students from various engineering colleges did their dissertation works at the Department of Electronics under the guidance of department staff.

**III. Research Paper Presentations**

Faculty members, staff, research scholars and students present research papers at national and international conferences.

15 papers were presented at international and 44 in national conferences, last year as follows.

International Conferences/Seminars/Workshops

1. Deepa M.S & Shyamala, K.C. *Generative discourse production: Assessment and functional Maintenance plan for bilingual (Kannada –English) persons with dementia*. 4th Annual conference on *coming of age: dementia in 21st century.* University of Stirling, Excel, London, 19-24 October 2010.
2. Jayashree C. Shanbal, Sneha George, Preeti Thomas & Padmatharini K.S. *Linguistic profiling in bilingual aphasia*. International Symposium on Bilingual Aphasia. All India Institute of Speech & Hearing, Mysore, January 4 – 5, 2010.
3. Jayashree.C. Shanbal, Manju Mohan P, Lakshmi S. Mohan, Maria Rappai & Louisa B. Suting. *Mental lexicon organization in L1 and L2 in bilingual aphasics: An investigation through prototypicality and hierarchical models*. International Symposium on Bilingual Aphasia. All India Institute of Speech & Hearing, Mysore, January 4 – 5,2010.
4. Manjula P. *Audiological profile in individuals with cochlear nerve hypoplasia.* 1st International workshop on CI. Dept. of ENT, Maulana Azad Medical College, New Delhi, April 3, 2010.
5. Swapna N & Manju M. *Verbal perseveration in a bilingual aphasic*.International Symposium on Bilingual Aphasia. All India Institute of Speech & Hearing, Mysore, January 4 – 5, 2010.
6. Swapna, N and Shylaja, *Non-word repetition in children with specific language impairment: An exploratory study*. 8th Asia Pacific Conference on *Speech, Language & Hearing.* Christchurch, New Zealand, 11-14, January 2011.
7. Gopi Kishore, P., Remya H Y, Ranjini G.C, Kanthima V Namboothiri. *Efficacy of voice therapy in sulcus vocalis: A single case study.* JointInternational Symposium on *Frontiers of Research on Speech and Music* and *Computer Music Modelling and Retrieval* (FRSM/CMMR). Bhuvaneshwar, March 9-12, 2011.
8. Rajasudhakar, R. & Nirmal Sugathan. *Acoustic vowel space in individuals with Broca’s aphasia.* JointInternational Symposium on *Frontiers of Research on Speech and Music* and *Computer Music Modelling and Retrieval* (FRSM/CMMR).Bhuvaneshwar, March 9-12, 2011.
9. Rajasudhakar R, Baljeet Rana & Nayana. *Variability of fundamental frequency under voice disguised condition.* JointInternational Symposium on *Frontiers of Research on Speech and Music* and *Computer Music Modelling and Retrieval* (FRSM/CMMR). Bhuvaneshwar, March 9-12, 2011.
10. Rajasudhakar R, Sachin, L. C & Somy E Sam. *Measurement of time dose in different professions.* JointInternational Symposium on *Frontiers of Research on Speech and Music* and *Computer Music Modelling and Retrieval* (FRSM/CMMR). Bhuvaneshwar, March 9-12, 2011.
11. Savithri S.R, Sreedevi N, Aparna V.S & Deepa Anand. *Effect of gender on speech rhythm in 3-4 year old Kannada speaking children.* JointInternational Symposium on *Frontiers of Research on Speech and Music* and *Computer Music Modelling and Retrieval* (FRSM/CMMR). Bhuvaneshwar, March 9-12, 2011.
12. Savithri, S.R., Sreedevi, N., Aparna, V.S & Deepa Anand. *Speech rhythm in 11-12 years old Kannada speaking children.* JointInternational Symposium on *Frontiers of Research on Speech and Music* and *Computer Music Modelling and Retrieval* (FRSM/CMMR). Bhuvaneshwar, March 9-12, 2011.
13. Sreedevi, N., Aparna, V.S & Ms. Manju, M. P. *Effects of speaking rate on formant frequencies and duration of vowels in Malayalam*. JointInternational Symposium on *Frontiers of Research on Speech and Music* and *Computer Music Modelling and Retrieval* (FRSM/CMMR). Bhuvaneshwar, March 9-12, 2011.
14. Sreedevi, N., Reuben T. V & Ms. Aparna, V S. *A comparison of spectral characteristics of vowels in Malayalam across mobile phone and live recordings*. JointInternational Symposium on *Frontiers of Research on Speech and Music* and *Computer Music Modelling and Retrieval* (FRSM/CMMR). Bhuvaneshwar, March 9-12, 2011.
15. Swapna, N.& Manju, M. *Verbal perseveration in Malayalam-English bilingual elderly individuals*. 8th Asia Pacific Conference on *Speech, Language & Hearing*. Christchurch, New Zealand, 11-14 January 2011.

National Conferences/Seminars/ Workshops

1. Ajish K Abraham. *Assistive device for museum access to persons with hearing impairment*. National Conference on *Emerging Medical Instrumentation* (CEMI). Chandigarh, 10-11, May 2010.
2. Animesh Barman. *Hearing assessment in children with special needs*. National seminar on Paediatric Hearing: Assessment and Rehabilitation. AIISH, Mysore, 16-17, December 2010.
3. Animesh Barman. *Vestibular pathways related to VEMP*. National symposium on Evaluation and Management of Vestibular Problems. Department of Audiology, AIISH,Mysore,29-30 January 2011.
4. Aswathy A.K. *Hearing impairment and agrammatism.* National Seminar on *Language Acquisition or Learning*. Department of Linguistics, University of Kerala, Trivandrum, 3-4 February 2011.
5. Basavaraj, V. *Strategy and protocol for universal hearing screening followed at AIISH, Mysore*. Two-day workshop on *New Born Hearing Screening – Formulating Strategy for India.* Ali Yavar Jung National Institute for the Hearing Handicapped, Mumbai, 3-4, May 2010.
6. Basavaraj V. *Role of newborn hearing screening.* 6th South Zone and 28th Karnataka State *ENT* Conference. Mysore, 22 October, 2010.
7. Basavaraj, V. (2011). *Developing communication skills in persons with communication disorders*. National Conference on *IT for persons with disabilities.* Department of IT, BT and S&T, Government of Karnataka, Bangalore , 11th January 2011.
8. B Nandeesha. *Information literacy meet web 2.0: How the new tools influence our own training and teaching*. National Seminar on *Management of Digital Information Sources, Services and Systems*, RNS Institute of Technology, Bangalore, 29- 30 July 2010.
9. Chandni Jain. *Hearing assessment in paediatric population using subjective measures*.National seminar on Paediatric Hearing: Assessment and Rehabilitation. AIISH, Mysore, 16-17 December 2010.
10. Dhananjay, R & Sujeet Kumar Sinha. *Brain-stem correlates of temporal processing in middle aged individuals: A preliminary study*. 43rd Annual Convention of Indian Speech & Hearing Association (ISHACON), Kolkata, 21-23 January 2011.
11. Geetha C. *Paediatric hearing aid fitting – selection and verification.* National seminar on Paediatric Hearing: Assessment and Rehabilitation. AIISH, Mysore, 16-17 December 2010.
12. Geetha, Y.V. Aishwarya Anand & Nisha Sudhi. *Do children with stuttering vary in their rate of speech with respect to capacity (DDK) and performance (articulatory rate)?*  43rd Annual Convention of Indian Speech & Hearing Association (ISHACON), Kolkata, 21-23 January 2011.
13. Gopi Kishore, P. *Rehabilitation of voice in professional voice users*. National Workshop on Professional Voice Assessment and Management. All India Institute of Speech & Hearing, Mysore, 9-10, December 2010.
14. Hasna Fathima. *Phonological activation during visual word recognition in deaf signers and hearing adults* National Seminar on *Language Acquisition or Learning*. Department of Linguistics, University of Kerala, Trivandrum, 3-4 February,2011.
15. Jayashree. C. Shanbal., Sangeetha, G & Vrunda, C. *Translation priming in bilingual children with learning disability*. 43rd Annual Convention of Indian Speech & Hearing Association (ISHACON), Kolkata, 21-23 January 2011.
16. Jayashree. C. Shanbal., Sharon Susan Sam & Anjali Maratt. *Diagnosing Learning Disabilities in Children: A Speech Language Pathologist Perspective*. National Seminar on *Language Acquisition or Learning*. Department of Linguistics, University of Kerala, Trivandrum, 3-4 February,2011.
17. Jyothi., Kanchan & Sujeet Kumar Sinha. *Test-retest-reliability of cochlear hydrops analysis masking procedure test.* 43rd Annual Convention of Indian Speech & Hearing Association (ISHACON), Kolkata, 21-23 January 2011
18. Manjula, R. *Augmentative and Alternative Communication and Education*. 3rd National conference of ISAAC India Chapter. Indian Institute of Cerebral Palsy, Kolkata, 2- 4 February 2011.
19. Manjula P. *Cochlear implant programming*. National seminar on Paediatric Hearing: Assessment and Rehabilitation. AIISH, Mysore, 16-17 December 2010.
20. Niraj Kumar Singh.*Objective hearing assessment in pediatric population.* National seminar on Paediatric Hearing: Assessment and Rehabilitation. AIISH, Mysore, 16-17 December 2010.
21. Niraj Kumar Singh. *VEMP recording techniques: Factors affecting and interpretation of VEMP*.National symposium on Evaluation and Management of Vestibular Problems. Department of Audilogy,AIISH,Mysore,29-30 January 2011.
22. Prawin Kumar. Issues on management of children with APD.National seminar on Paediatric Hearing: Assessment and Rehabilitation. AIISH, Mysore, 16-17 December 2010.
23. Pushpavathi, M & Gopisankar. *Nasalence value for Rainbow and Zoo passage of non native English speakers.* 9th Annual Conference of Indian Society of Cleft Lip, Palate and Craniofacial Anomalies. AIIMS, NewDelhi ,24th April,2010.
24. Pushpavathi, M & Indu Thammaiah. *Early intervention module for children with cleft palate* .10th Annual Conference of Indian Society of Cleft Lip, Palate and Craniofacial Anomalies. Chennai, 28-30 January 2011.
25. Pushpavathi, M *Prevention of voice problems and maintenance of healthy voice.* National workshop on *Voice assessment and management.* AIISH,Mysore, 9-10 December 2010.
26. Pushpavathi, M. *Prosthodontic management of challenging cases with CLP*. 10th Annual Conference of Indian Society of Cleft Lip, Palate and Craniofacial Anomalies. Chennai, 28-30 January 2011.
27. Pushpavathi, M. *Speech Production*.10th Annual Conference of Indian Society of Cleft Lip, Palate and Craniofacial Anomalies. Chennai, 28-30 January 2011.
28. Pushpavathi, M., Indu Thammaiah & Jasmine. *Awareness of parents of CLP on the nature of Cleft palate.* 10th Annual Conference of Indian Society of Cleft Lip, Palate and Craniofacial Anomalies. Chennai, 28-30 January 2011.
29. Sandeep, M. *Screening and identification of hearing loss in children.* National seminar on Paediatric Hearing: Assessment and Rehabilitation. AIISH, Mysore, 16-17 December 2010.
30. Santosh, M., Anusha, S. & Rajashekhar, B. *Prevalence of voice problems in university teachers.* 7th Annual Conference of Association of Phonosurgeons of India (PHONOCON). The Army Hospital (Research & Referral) New Delhi, 25-27th February 2011.
31. Shyamala, K.C. *Assessment and intervention approaches in PDD and ASD*. National Seminar on *Communication disorders in children and Dysphagia.* Hyderabad, 4- 6, March 2011.
32. Shyamala, K.C. *Contemporary issues and Concepts of PDD & ASD*. National Seminar on *Communication disorders in children and Dysphagia.* Hyderabad, 4th – 6th, March, 2011.
33. Sreedevi, N., Merin John & Nisha Sudhi. *Sensitivity evaluation of CAPP-M in children with Hearing Impairment.* 43rd Annual Convention of Indian Speech & Hearing Association (ISHACON), Kolkata, 21-23 January 2011.
34. Sreedevi, N & Merin, J. Phonological processes in 3-3.6 years typically developing Malayalam speaking children. National Seminar on *Language Acquisition or Learning*. Department of Linguistics, University of Kerala, Trivandrum, 3-4 February,2011.
35. Sreeraj K. *Use of assistive listening devices in paediatric population with hearing impairment*. National seminar on Paediatric Hearing: Assessment and Rehabilitation. AIISH, Mysore, 16-17 December 2010.
36. Sujeet Kumar Sinha. *Clinical applications of VEMP*. National symposium on Evaluation and Management of Vestibular Problems. Department of Audilogy,AIISH,Mysore,29-30 January 2011.
37. Swapna, N, Ansu, A Grace., Shylaja, K. *Non-word repetition in sequential and simultaneous bilinguals*. (Poster presentation). 43rd Annual Convention of Indian Speech & Hearing Association (ISHACON), Kolkata, 21-23 January 2011.
38. Venkatesan,S. Invite Lecture on *Learning Disability: the continuing Challenge.* National Seminar on *Learning disability; Approaches, Challenges and Provisions.* Department of Social Sciences, Lady Doak College, Madurai , 29-30 November 2010.
39. Venkatesan S. *Counselling Issues.* National Seminar on *Multi-disciplinary Approaches to Disability Management.* Faculty of Disability Management and Special Education. Ramakrishna Mission Vivekananda University, Kovai, TN , 18-20 June 2010.
40. Vivek Mandal & Animesh Barman. *On vestibular evoked myogenic potentials*. 43rd Annual Convention of Indian Speech & Hearing Association (ISHACON), Kolkata, 21-23 January 2011.
41. Yathiraj, A. *Listening training in paediatric population with hearing impairment.* National seminar on Paediatric Hearing: Assessment and Rehabilitation. AIISH, Mysore, 16-17 December 2010.
42. Yathiraj, A. *Assessment and Management of CAPD*. 63rd Annual Conference of the Association of Otolaryngologists of India*,* Chennai,6 - 9 January, 2011.
43. Yathiraj, A. *Multi-disciplinary services and research in the area of cochlear implant*. 43rd Annual Convention of Indian Speech & Hearing Association (ISHACON), Kolkata, 21-23 January 2011.
44. Yeshoda, K. *Prevention of Voice Problems – Vocal Abuse Reduction Program.* National Workshop on Professional Voice Assessment and Management. All India Institute of Speech & Hearing, Mysore ,9-10, December 2010.

**IV. Research Paper Publication**

Many faculty members and staff publish their research works in national, international and online journals.

Seven articles were published in international, 44 in national and six in online journals, last year as follows:

International journals:

1. Akshay Raj Maggu & Asha Yathiraj (2011). *Effect of Noise Desensitization Training on Children with Poor Speech-In-Noise Scores*. Canadian Journal of Speech-Language Pathology and Audiology, V.35, (1)
2. Deepa M. S. & Shyamala K. C. (2010). *Cognitive linguistic performance in bilingual persons with dementia*. International Journal of Mind, Brain, Cognition,V.1( 2)
3. Kumar, P. & Yathiraj, A. (2009). Perception of speech simulating different configurations of hearing loss in normal hearing individuals. Clinical linguistics and Phonetics. 23 (9), 680-687.
4. Maggu A.R & Yathiraj A. (2011). Effect of Noise Desensitization Training on Children with Poor Speech-In-Noise Scores. Canadian Journal of Speech-Language Pathology and Audiology, Vol. 35, No.1, pp.56-63.
5. Manjula, R & Rupela, V. ( 2010). *Diadochokinetic assessment in Persons with Down Syndrome*. Asia pacific Journal of Speech. Language and Hearing. V 13 (2).
6. Manjula, R, Rupela, V & Velleman, S.L. (2010). *Phonological processes in Kannada speaking adolescents with Down Syndrome.* Clinical Linguistics & Phonetics. V 24 (6).
7. Shyamala, K.C, Vishnu, K.K, Arya Abraham & Sapna Bhat,(2010).*Fast Mapping of Novel Words: A Cross-Linguistic Study.* International Journal of Mind, Brain & Cognition, V.1 (1)
8. Venkatesan, S. (2010). *Case Study on Cost Benefit Analysis for Government Sponsored Pension Scheme for Persons with Mental Retardation*. Asian Journal of Developmental Matters .V4(1).

National Journals:

1. Basavaraj V, Venkatesan, S., Vasantha Lakshmi, M.S & Purusotham, P.(2010). *Pilot study on process evaluation of DHLS program conducted through real vis-à-vis virtual modes : 2007-08*. Journal of All India Institute of Speech and Hearing. V.29(2)
2. Brajesh Priyadarshi & Kartikeyan, B.M.(2010) *Comparison of Coarticulatory Effects in speech of Tamil Speaking Children and Adults with Down’s Syndrome: An Acoustic Explanatory Study*. Indian Linguistics: Journal of the Linguistic Society of India, V.71
3. Deepa M. S. & Shyamala K. C. (2010). *Complex discourse production in persons with mild dementia: measures of richness of vocabulary*. Journal of All India Institute of Speech and Hearing,V( 29)1.
4. Ganapathy, S.H and Basavaraj, V. (2010). *The Effect of bone vibrator coupling force in bone conduction ABR.* Journal of Indian Speech and Hearing Association, V.24(2)
5. Garvita Mehta & Sandeep, M (2011). *Neurophysiological representation of Hearing Aid Processed Speech*. Journal of Indian Speech and Hearing Association, V.25(1).
6. Geetha, Y.V., Nisha Sudhi & Merin John. (2010). *Age and Gender differences in Persons with Stuttering*. Journal of All India Institute of Speech and Hearing V.29 (2).
7. Govindaraju, R., and Venkatesan, S. (2010). *Knowledge and Awareness in Teachers about Government Programs to combat School Drop outs*. Journal of Indian Academy of Applied Psychology. V.36( 2).
8. Hema, N., & Shyamala, K. C. (2010). *Discourse in Traumatic Brain Injury.* Journal of All India Institute of Speech and Hearing, V.29(2).
9. Jayakumar, T. & Savithri, S.R. (2010). *Respiratory similarity in monozygotic twins*. Journal of All India Institute of Speech and Hearing.V.29 (1)
10. Jayashree.C. Shanbal., Chaithra,S & Prathima, S.(2010). *Phonological awareness skills and reading in children who are at risk for learning disability: role in the indian context*. Journal of All India Institute of Speech and Hearing. V.29(2).
11. Kanchan, A.; Khan, N.A & Singh, A.R. (2010). *Addressing Psychosocial Deficits of Patients with Schizophrenia through Cognitive Rehabilitation*. Indian Journal of Social Psychiatry; V.26 (3-4)
12. 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.V 4. (1).
13. Khan, N.A.; Kanchan, A.; Jahan, M. & Singh, A.R. (2011). *Human Figure Drawings of Normal Indian Adults*. SIS Journal of Projective Psychology and Mental Health, V18(1).
14. Khan, N.A.; Kanchan, A.; Singh, A: Senger, K.S, & Nag; AK (2010).*A Comparative Study of Neuro-Cognitive Impairment in Elderly Patients with Schizophrenia and Elderly Normals*. Eastern Journal of Psychiatry, 13(1&2)
15. Khoshali, A.K., and Venkatesan, S. (2010). *Development of Play Activity Checklist for Children with Mental Retardation*. Indian Journal of Clinical Psychology.V.37(2).
16. Kumar, P. & Yathiraj, A. (2010). Auditory comprehension Passage test for Children in Indian-English. Journal of Indian Speech and Hearing Association. 24 (2), 100-108.
17. Kumari Apeksha & Devi N. (2010). *Effect of Sensorineural Hering Loss on Speech Evoked Aided Auditory Late Latency Response*. Journal of All India Institute of Speech and Hearing, V.29(2).
18. Manjula, R & Priya M.B. (2010). *Effect of posture on respiratory and phonatory measures in typically developing children: Implications in cerebral palsy*. Journal of Indian Speech Language and Hearing Association,V.24(2).
19. Mariam Liveem. T., Aparna, V.S. & Prema K.S.(2010). *Cross Linguistic Study of Phonological Similarity Effect.* Journal of All India Institute of Speech and Hearing.V.29 (2).
20. Prakash R., Dubey I., Abhishek P., Gupta S.K., Rastogi P and Siddque S.V (2010). Long-term Vihangam Yoga Meditation and Scores on Tests of Attention” Perceptual and Motor Skills, 2010, 110,3,1-10
21. Pushpavathi, M, Chandrabose, Jocine Gloria., St Louis, Kenneth & Raoof, Shabina. (2010). Awareness of stuttering among prospective teachers of Mysore. Journal of All India Institute of Speech and Hearing, V.29 (2).
22. Pushpavathi, M., Venkatesan, S. & Purushotham, K.(2011). *Adjustment patterns in Voice disorders*. Journal of Indian Speech and Hearing Association. V.25 (1).
23. Rajasudhakar, R. & Savithri, S. R. (2010). *Effects of teaching and voice rest on acoustic voice characteristics of female primary school teachers*. Journal of All India Institute of Speech and Hearing, V. 29 (2).
24. Rhea M.K., Seby, M.M & Swapna, N. (2011). Cluster disfluencies: *A comparison between children with and without stuttering*. Journal India Speech and Hearing Association, V. 25(1).
25. Sangeetha, M. & Geetha, Y.V.(2010). *Prevalence of seizure disorders in children with communication disorders- a preliminary study*.Journal of All India Institute of Speech and Hearing. V29 (1)
26. Santosh, M. & Rajshekar, B. (2011). *Perceptual and Acoustic Analysis of Voice in Individuals with total thyroidectomy: Pre-Post Surgery Comparison.* Indian Journal of Otolaryngology and Head and Neck surgery. V.63.
27. Savithri S. R, Sreedevi, N., Jayakumar, T. & Kavya, V. (2010). *Development of speech rhythm in Kannada speaking children.* Journal of All India Institute of Speech and Hearing. V.29(2).
28. Sreedevi, N., Anusha, S., & Varsha, J. (2010). *A Comparison of acoustic characteristics of speech in cochlear implant and BTE users with normal Hearing age matched individuals.* Journal of All India Institute of Speech and Hearing. V.29 (1).
29. Sreedevi, N., Shishira, S. B. & Sushma, S. (2010). *Speech Intelligibility in typically developing children (3-4 years).* Journal of All India Institute of Speech and Hearing. V. 29 (1).
30. Sudarshan, H.M., and Venkatesan, S. (2010). *Marital Adjustment in Rural Women Identified With HIV/AIDS and Undergoing Anti Retro Viral Drug Therapy*. Asian Journal of Developmental Matters. V.4.(2).
31. Sujeet Kumar Sinha & Basavaraj, V. (2010). *Auditory Brainstem Responses to Forward and Reversed Speech in Normal Hearing Individuals*. Journal of All India Institute of Speech and Hearing, V.29(2).
32. Sujeet Kumar Sinha & Basavaraj, V (2010). *Lateral Asymmetry in Speech Processing at the Brainstem: Evidence from Speech Evoked ABR.* Journal of All India Institute of Speech and Hearing, V.29(2).
33. Sujeet Kumar Sinha and Basavaraj, V. (2010). *Speech evoked auditory brainstem responses: A new tool to study brainstem encoding of speech sounds.* Indian Journal of Otolaryngology and Head & Neck Surgery.V.62(4)
34. Sujeet Kumar Sinha & Basavaraj, V. (2010).*Speech Evoked Auditory Brainstem Responses: A New Tool to Study Brainstem Encoding of Speech Sounds.* Indian Journal of Otolaryngology and Head & Neck Surgery, V.62(4).
35. Swapna, N., Steby, S., Sindhupriya, C & Rupali, M (2010).*Cognitive-linguistic abilities in bilingual children.* Journal of All India Institute of Speech and Hearing, V.29(1).
36. Swapna, N., Sushma, M., Amulya, P.R & Ranjini, M.(2010). *Fast mapping in typically developing Kannada speaking toddlers*. Journal of All India Institute of Speech and Hearing, V.29(1).
37. Varun Uthappa, Priyanka Shailat & Animesh Barman (2010). *Relationship between OAEs and Behavioral Discrimination Ability of Normal Hearing Individuals*. Journal of All India Institute of Speech and Hearing, V.29(2).
38. Vasudeva, R & Vasantha Lakshmi, M.S. (2010). *Burr Distribution as limit distribution of Extremes of a random number of random variables*. mySCIENCE, V. 4(2) .
39. Venkatesan, S. (2010). *Cultural Factors in Clinical Assessment: The Indian Perspective*. Indian Journal of Clinical Psychology. 37(1).
40. Venkatesan, S. (2010). *Indian Scales and Inventories: Revisiting Clinimetry through IJP*. Indian Journal of Psychiatry. 52 (Supplement)
41. Venkatesan, S., and Purusotham, P. (2010). *Validation of Item Pool on Number Competencies in Preschool and Primary School Children*. Disabilities & Impairments 24(1).
42. Venkatesan, S., and Ravindranath, A. (2011). *Depression in Institutionalized and Non-institutionalized Elderly*. Journal of Indian Academy of Applied Psychology. 37(1).
43. Venkatesan, S., Pushpavathi, M., and Purusotham, P. (2010). Adjustment Patterns in Voice Disorders. Journal of Indian Association of Speech and Hearing. 25(1)
44. Vijay Kumar Yadav Avilala, Prashanth Prabhu P, & Animesh Barman (2010). The Effect of Filtered Speech on Speech Identification Scores of Young Normal Hearing Adults. Journal of All India Institute of Speech and Hearing, Vol.29(2).
45. Vijetha, P. & Jangaiah, C. (2010). Intelligence, Creative thinking abilities and Academic achievement of children with hearing impairment – A correlation study. Journal of All India Institute of Speech and Hearing. V 29(2).
46. Yeshoda,K., Bijoyaa, M., Nisha, S., Liveem, M. T., SriPallavi, M. & Anil Kumar. (2010). Analysis of Acoustic Patterns In Honey Bees- An Investigation. Journal of All India Institute of Speech and Hearing. V. 29 (2).

Online Journals

1. Brajesh Priyadarshi., Shyamala. K. C., Basanti Devi & Vishnu.K.K.(2010). Comparison of Markedness of Lexical Semantic Abilities in Normal Children and Children with Hearing Impairment. Language in India. V.10(11)

2. Deepa M. S. & Shyamala K. C. (2010). Bilingual persons with mild dementia- spectrum of cognitive linguistic functions. Language in India, V.10

3. Sarika Khurana & Prema, K.S. (2011) Emergent Literacy Experiences in the Classroom- A sample survey in Mysore City. Languages in India. V.11.

4. Shyamala, K.C., Ravi Kumar & Haripriya, G.(2010) Verbal interaction and input in Hearing impaired. Language in India. V. 10.

5. Sreedevi, N., Rhea, M. K. & Prasad, J. (2010). Speech and Language characteristics of monozygotic twins – A Case study. Language in India, V. 10.

6. Vishnu K.K., Maya Leela & Subba Rao T.A.(2010) A Comparative Study on the Efficacy of Two Different Clinical Language Intervention Procedures. Language in India. V 10

**V. Student Research Publication**

The research projects done by the postgraduate students of the institute are being published in-house as ‘Student Research at AIISH’. During the reporting year, Volume No. VIII of ‘Student Research at AIISH’ was published in three parts namely (A) Audiology, (B) Speech Language Pathology, and (C) Special Education. It contains 71 articles written jointly by the student researchers and their supervisors based upon the postgraduate dissertations.

**VI. Books/Book Chapters**

Faculty members are actively involved in writing books based upon various aspects of Communication Disorders and related themes. Last year, 11 books/book chapters were written by the faculty as follows :

1. Basavaraj, V., Rangasayee, R. and others. (2010). Chapter titled *Hearing Impairment* in the book *Status of Disability in India – 2007* . Published by Rehabilitation Council of India, New Delhi. pp 99-145.
2. Geetha Y.V., Prema K.S., Karanth, P. & Manjula, R. (2010). With a little bit of help - A manual and 634 cards for language training in Hindi. As a part of Production of Language Training Materials in ten major Indian Languages -An UNICEF Project. Published by Books for Change publishers and National Trust, Bangalore.
3. Geetha Y.V., Prema, K.S., Karanth, P. & Manjula, R. (2010). With a little bit of help -A manual and 634 cards for language training in Malayalam. As a part of Production of Language Training Materials in ten major Indian Languages -An UNICEF Project. Published by Books for Change publishers and National Trust, Bangalore.
4. Geetha Y.V., Prema, K.S., Karanth, P. & Manjula, R. (2010). With a little bit of help -A manual and 634 cards for language training in Marathi. As a part of Production of Language Training Materials in ten major Indian Languages -An UNICEF Project. Published by Books for Change publishers and National Trust, Bangalore.
5. Geetha Y.V., Prema, K.S., Karanth, P. & Manjula, R. (2010). With a little bit of help -A manual and 634 cards for language training in Tamil. As a part of Production of Language Training Materials in ten major Indian Languages -An UNICEF Project. Published by Books for Change publishers and National Trust, Bangalore.
6. Geetha Y.V., Prema, K.S., Karanth, P. & Manjula, R. (2010). With a little bit of help -A manual and 634 cards for language training in Telugu. As a part of Production of Language Training Materials in ten major Indian Languages -An UNICEF Project. Published by Books for Change publishers and National Trust, Bangalore.
7. Prema, K.S & Shyamala, K.C. (2010). Chapter titled Language processing in bilinguals and biliterates. In Special volume Cognitive initiatives. Published by DST,New Delhi.
8. Venkatesan, S. (2010). Toy Kit for Kids with Developmental Disabilities: User Manual. Revised English Edition. Published by All India Institute of Speech & Hearing, Mysore.
9. Venkatesan, S. (2010). Chapter titled Cognitive Behavior Group therapy in Mathematics Anxiety. Co-authored by Ayatollah Karmi in book titled Recent Studies in School Psychology. Edited by Panch Ramalingam and foreword by Professor Bill Pfohl, President, International School Psychology Association. Published by Authors Press, New Delhi.
10. Venkatesan, S. (2011). Functional Assessment Battery: Idiometric Analysis of Neuropschological Functions in Adults with Mental Retardation. Published by Psychotronics, Bangalore.
11. Yathiraj, A, (2010). Unit 2: Auditory training and its importance and auditory verbal therapy. In Perception through hearing aids, auditory training and evaluation of hearing aids (Block 2). Published by IGNOU for programme Aural Rehabilitation of Children with Hearing Impairment.
12. Yathiraj, A. (2010-11). Perception through auditory modality & Basic acoustic properties of speech and its effect on hearing aids. Self-Learning Material for block in course titled ‘Aural Rehabilitation of Children with Hearing Impairment’, for M.Ed. (SE-DE) (HI), New Delhi: IGNOU.
13. Yathiraj, A. (2010-11). Auditory training and its importance and auditory verbal therapy (AVT). Self-Learning Material for block in course titled ‘Aural Rehabilitation of Children with Hearing Impairment’, for M.Ed. (SE-DE) (HI), New Delhi: IGNOU.
14. Yathiraj, A. (2010-11). Application of materials and methods in classroom and outside the classroom for individuals and group. Self-Learning Material for block in course titled ‘Aural Rehabilitation of Children with Hearing Impairment’, for M.Ed. (SE-DE) (HI), New Delhi: IGNOU.
15. Yathiraj, A. (2010-11). Evaluation of hearing aids using electro acoustic analysis instrumentation; ISI standard and technical specifications; Hearing aids under governmental schemes and their performances; Makes and models of hearing aids; Development of ear mould technology and modification. Self-Learning Material for block in course titled ‘Aural Rehabilitation of Children with Hearing Impairment’, for M.Ed. (SE-DE) (HI), New Delhi: IGNOU.
16. Yathiraj, A. (2010-11). Technical specification for classroom devices. Self-Learning Material for block in course titled ‘Aural Rehabilitation of Children with Hearing Impairment’, for M.Ed. (SE-DE) (HI), New Delhi: IGNOU.

**VII. Editorial Work**

The faculty are involved in editing of books, journal articles and conference proceeding in their fields of expertise. The editorial works carried out last year are given below:

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| **Sl.No** | **Name** | **Journal / book** |
|  | Dr. Yathiraj, A | Journal of All India Institute of Speech and Hearing |
|  | Dr. Yathiraj, A | Block 1: Hearing and auditory processes; Block 3: Language; Block 4: The speech process and components of speech & Block 5: Speech teaching of Aural rehabilitation of children with hearing impairment. Published by IGNOU. |
|  | Dr. Manjula P | Journal of All India Institute of Speech and Hearing |
|  | Dr. S.R. Savithri | Proceedings of the National Workshop on Professional Voice: Assessment and Management. AIISH, Mysore.  |
|  | Dr. S.R. Savithri | Journal of the Acoustical Society of India |
|  | Dr. S.R. Savithri | Journal of All India Institute of Speech and Hearing |
|  | Dr. S.R. Savithri | Train your child – Level 1 |
|  | Prof. K. S. Prema, | Sensitivity training on academic problems in primary school children enrolled under SSA in Karnataka-Instructor Manual |
|  | Dr. Sandeep M | Compiler for Audiology dissertation articles for Student research at AIISH, Mysore publication 2009-10. |
|  | Dr. N. Swapna | Compiler for Speech – Language Pathology dissertation articles for Student Research at AIISH, Mysore publication 2009-10.  |
|  | Dr. D. Malar | Compiler for Special Education dissertation articles for Student research at AIISH, Mysore publication 2009-10 |
|  | Dr. Shyamala K.C | Proceedings of the International Symposium on Bilingual Aphasia,AIISH,Mysore  |
|  | Dr. Shyamala K.C | Asia Pacific Journal of Speech,language and Hearing,Plural Publications. |
|  | Dr. Shyamala K.C | Journal of Neurolinguistics, Elsevier Publications. |
|  | Dr. Shyamala K.C | Journal of All India Institute of Speech and Hearing |
|  | Dr. Shyamala K.C | Journal of Indian Speech Language and Hearing Association |

**VIII. Peer-Reviewing**

Experienced faculty members of the institute are also involved in peer-reviewing of research papers received for publications by the reputed journals in the field. They were also involved in peer-reviewing various project proposals submitted to national agencies like DST and other research project evaluation. The details of peer-review carried out by faculty last year are given below:

Dr. Animesh Barman

* Journal of Indian Speech Language and Hearing Association

Ms. Amrita Kanchan

* Project proposal titled *Effect of heavy metal exposure on cognitive function and behaviour with special reference to gene expression of antioxidant enzymes in rats; modulation by plant products*. Submitted to DST, GOI, New Delhi.
* Project proposal titled *Neurophysiological correlates of central executive system of working memory using ERP compatible neuropsychological tests*. Submitted to DST, GOI, New Delhi.
* Project proposal titled *Role of handedness in explaining differences in cognitive functioning*. Submitted to DST, GOI, New Delhi.

Dr. Geetha Y.V

* Journal of All India Institute of Speech and Hearing

Dr. Jayarama. G

* Project proposal titled *Factors in Movement Imagery with vision and in the total absence of vision during mental practice: A neuroimaging study*. Submitted to DST, GOI, New Delhi.
* Project proposal titled *role of Amygdalar Neurons and Glia in Sleep- dependent Consolidation of cued Fear – Conditioned Memory in the rat*. Submitted to DST, GOI, New Delhi.
* Proposal titled *Shape Perception development by cognitive learning and EEG based motion control of an artificial limb*. Submitted to DST, GOI, New Delhi.

Dr. Manjula P

* Journal of Indian Speech Language and Hearing Association

Dr. Manjula R

* Journal of All India Institute of Speech and Hearing
* Journal of Indian Speech and Hearing Association

Dr. Prema K.S

* Journal of All India Institute of Speech and Hearing

Dr. Santosh. M

* Journal of Indian Speech and Hearing Association

Dr. Venkatesan S

* Journal of Indian Speech and Hearing Association
* Journal of All India Institute of Speech and Hearing
* Indian Journal of Clinical Psychology
* Psychological Studies, the official Journal of National Academy of Psychology, India
* Research proposal titled *Assessment of Auditory Working Memory in Normal Hearing and Hearing Impaired Children.* Submitted byMr. Ranganathan at All India Imstitute of Speech & Hearing,Mysore.
* Research proposal titled *A Longitudinal Study on Growth and Development of Low Birth Weight Infants (Birth to 2 years of age) of Mysore*. Submitted byMs. MV Arundathy, Department of Food Science & Nutrition, UOM, Mysore.
* Project proposal titled *A Cognitive Exploration of the Concept of ‘Privacy’ among Indians*. Submitted by IIT, Gandhinagar, Ahmedabad to DST, GOI, New Delhi.
* Project proposal titled *Nutritional Status and Cognitive Functioning and Development through supplementary food mixes to 3-6 year old children*. Submitted by the Department of Human Development, Home Science College & Research Institute, Madurai to DST, GOI, New Delhi.
* Project proposal titled *Effect of Neural Correlates of Repetitive Transcranial Magnetic Stimulation on Positive and Negative Symptoms and Associated Cognitive Dysfunctions in Schizophrenia*. Submitted by the Mental Health & Neuro Sciences Division, Caring Foundation, New Delhi to DST, GOI, New Delhi
* Project proposal titled *Brain Region Specific Epigenomic Changes in Impaired Cognition*. Submitted by the Department of Zoology, University of Delhi, New Delhi to DST, GOI, New Delhi.
* Book titled *Portage guide to early childhood education/ Indumathi Rao.* Published by CBR Network (South Asia) in the *Journal of All India Institute of Speech and Hearing* V.29(1),2010.

Dr. Yathiraj, A

* Journal of Indian Speech Language and Hearing Association