About the Institute

Communication disorders are difficulties involving speech, language and or hearing, which have been accepted as a major public health issue as they compromise early childhood development, restrict vocational attainment and attenuate the economic well-being of the society.

The All India Institute of Speech and Hearing (AIISH), Mysore, is the foremost organization in the country, mandated to help and support people with communication disorders. Founded in 1965 as an autonomous institute under the Ministry of Health and Family Welfare, Government of India, AIISH has been successfully carrying out its activities for the last 46 years. In pursuit of its mission of ensuring effective communication by one and all, the institute (a) generates and prepares knowledgeable and skilled practitioners in Speech - Language Pathology and Audiology and allied fields, who can provide state-of-the art, client-centered service in multiple settings,(b) conducts both basic and applied research in areas related to communication disorders and disseminates the findings among the local, national and international audiences, (c) provides affordable, accessible and high-quality speech, language, and hearing clinical services to the needy ones, and (d) develops, implements and evaluates education and outreach programs to address the prevention, intervention and control of communication disorders.

Started as an institute to train the postgraduate students in Speech and Hearing, today AIISH has grown into the largest institute in the country offering various diploma, graduate, postgraduate, postgraduate diploma, doctoral and post doctoral programs in the field, in addition to rendering clinical services to thousands of persons with communication disorders from all over the country and conducting multi-faceted research to find solutions to the challenges of communication disorders. All these activities are spearheaded by the experts working in 11 departments of the I n s t i t u t e , n a m e l y A u d i o l o g y, Centre for Rehabilitation and Education through Distance Mode, Clinical Psychology, Clinical Services, Electronics, Otorhinolaryngology, Prevention of Communication Disorders, Special Education, Speech-Language Pathology, Speech-Language Sciences, and Material Development.

The institute has been recognised as a Centre of Excellence in the area of deafness by World Health Organization, as a Centre of Advanced Research by University Grants Commission, as a Science & Technology Institute by Department of Science and Technology, Government of India and as the nodal centre for implementation of prevention and control of deafness by Ministry of Health & Family Welfare, Government of India.

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Message from the Director

I am proud to present the 46th annual report of the All India Institute of Speech and Hearing, Mysore. This report briefly outlines the activities performed by the institute in 2010-11.

At the outset, I report the untimely demise of Dr. Vijayalakshmi Basavaraj on 19th March 2011, while she was serving the Institute as its Director. I wish to place on record my heartfelt sorrow and grief over her death and appreciate the fact that most of the activities of the institute during the year under report, took place during her tenure. She played a pivotal role in leading the institute towards attaining the status of centre of excellence and added a dynamic dimension to the functioning of the institute.

Past year, the institute continued to be committed to the training, research, patient care, and public education activities pertaining to the field of speech, language and hearing and allied fields and it was another successful year during which AIISH moved forward both by expanding its existing activities and initiating new ones.

The institute strengthened its academic activities by inducting more number of faculty members and incorporating state-of-the art instructional technologies. Further, it enriched the academic offerings by introducing a new program entitled 'Post-Graduate Diploma in Neuro-audiology' and launching a practical laboratory for providing hands-on experience to the students in the use of various audiological assessment equipments and hearing device fitting.

During the year under review, the institute witnessed active research works by the faculty and students on an impressive range of topics related to communication disorders. More than 60 research projects, both extramural and intramural, undertaken by the faculty were progressing smoothly in various departments and clinics. The faculty members had published 58 research papers in national and international journals and presented 56 papers in national and international conferences/ seminars. In addition to these, they had contributed to the field, by way of members of various scientific committees, and peer reviewing journal articles for reputed journals, and writing books.

It is very gratifying to report that last year we served at the institute, more than 50,000 patients with communication disorders from all over the country, which is considerably higher than that of 2009-10. Further, we augmented our specialized clinical services by launching two more clinics namely vertigo clinic and fluency clinic. Under the outreach clinical service program, we served more than 13,000 patients and their families through our clinical centres located in different rural areas. In addition to it, we delivered tele- diagnosis and web-based clinical services to hundreds of persons all over the country.

The institute organized 13 camps at various locations in Karnataka and neighboring states in which we educated the public regarding prevention , control and treatment of communication disorders. More than 2000 persons received direct and many others received indirect benefits out of the camps.

Another highlight of the year was the recruitment of 43 regular and 163 contract staff to various services of the institute, the highest figures in the history of the Institute. This act contributed to speed up the overall activities of the institute.

Many other positive developments took place in the institute during the year. The noteworthy among them include successful organization of 12 monthly public lectures on various topics, purchase of many sophisticated scientific equipments, procurement of E-books and bibliographic databases and construction of new buildings and renovation and retrofit of old ones.

All the activities performed and all the achievements made during the year under review were due to the dedication and commitment of our staff at all levels, who contributed to the success of this prestigious institution in so many ways. While there are challenges ahead, I am confident that together we will meet those challenges and continue to improve the institute and services we provide to the people with communication disorders.



 Director

2.

Key Events in a Nutshell

A brief account of major events took place in the institute during the year under report are mentioned below.

**I. Academic**

**Annual Meeting of All India DHLS coordinators:** Coordinators of 12 DHLS centres all over India attended the meeting which was held on 1-2 July 2010. The coordinators discussed development of libraries at each centre, expansion activities of new - born hearingscreening unit for early intervention of communication disorders, DHLS process evaluation report, translation of self learning materials of DHLS course to different regional languages and future plans for introduction of E-MASLP course through video conferencing,

besides other issues.

**Inauguration of Audiology Practical Lab:** The Practical Lab was inaugurated at Dept. of Audiology by Dr. M.D. Ravi, Professor in Paediatrics, JSS Medical College, Mysore on 16th December 2010. Dr. T.K. Parthasarathy, AIISH alumni and Professor, Southern Illinois University, USA was present on the occasion. The main objective of the practical lab is to provide practical demonstration and hands-on-experience of all the equipments used for audiological assessment and hearing device fitting. Training is provided to the undergraduate (Speech and Hearing), post- graduate (Audiology) and post - graduate diploma (Neuro-Audiology) students. The lab is equipped with audiometer, immittance meter, OAE equipment, evoked potential instrument, sound booth, NOAH link and real time analyzer.

Introduction of Post Graduate Diploma in Neuro-Audiology: Knowing the significance of the field of Neuro-audiology and its applications, the institute has introduced a one-year post- graduate diploma in neuro-audiology (PGDNA). The course was officially launched by Prof. V.G. Talwar, Vice-Chancellor, University of Mysore, on 1st October, 2010. It is a credit-based, two semester course affiliated to the University of Mysore. The course is a stepping stone for those with a quest to gain knowledge through research in the area of audiology.

**II. Clinical**

Inauguration of Fluency Unit: Prof. V.N. Rajasekharan Pillai, Vice-Chancellor, Indira Gandhi National Open University, New Delhi inaugurated the fluency unit at the Department of Clinical Services on 9th August 2010. Prof. S. Ramachandra Shetty, Vice-Chancellor, Rajiv Gandhi University of Health Sciences, Bangalore and Prof. K.S. Rangappa, Vice- Chancellor, Karnataka State Open University, Mysore were present on the occasion. The unit imparts training to students and provides clinical services to clients with fluency disorders and enables the professionals to conduct research on neuroanatomical, neurophysiological and genetic aspects of fluency disorders. It also conducts group therapy which caters to the needs of persons with stuttering and other fluency disorders.

**Opening of ‘LiBoToy’ :**The department of Special Education has opened a new resource centre for the children with special needs, called 'LiBoToy' (Library of Books and Toys). The facility was formally launched by Mr.Keshav Desiraju, Additional Secretary, Ministry of Health and Family Welfare, Government of India, on 8th October 2010. 'LiBoToy' constitutes various toys of different textures and sizes suitable for 0-6 years age group children. The library also has talking books and compact discs to cater to the needs of children with communication disorders as well as typically developing children

**Launching of Vertigo Clinic:** The department of Otorhinolaryngology started a specialized clinic for the diagnosis and treatment of vertigo, a disorder related to balance and equilibrium. Dr. Anirban Biswas, Neurotologist and President, Association of Otolaringologists of India, inaugurated the clinic on 22nd October 2010 and delivered a lecture on management of vertigo, on the occasion. Dr. Geetha Avadhani, Professor & Head, Department of General Surgery and Medical Superintendent, K.R. Hospital, Mysore was the guest of honour.

**Observation of International Stuttering :**Awareness Day: International stuttering awareness day was celebrated on 22nd November 2010 by the Department of Clinical Services. The program was inaugurated by Brahma Kumari Vani, Brahma Kumari Vishwa Vidyalaya, Srirampura, Mysore. Around 150 D.Ed trainees from Somani D.Ed College and DIET, Mysore as well as children and adults with stuttering who have availed clinical services at the institute attended the program.

**III. Infrastructure Development**

Foundation Stone Laying Ceremony: The foundation stone of the new audiometric block was laid by Dr. R. K. Srivastava, Director General of Health Services, Government of India, on 30 June 2010. He said that attempts should be made to reach out to more people as the services in these areas have not reached the target groups as expected. The foundation stone for the 'D' type quarters was laid by Dr. B. D. Athani, Additional Director General and Director, All India Institute of Physical Medicine and Rehabilitation, Mumbai.

**Launching of Re-designed Website :** The newly upgraded website of AIISH with improved technical and editorial quality was launched by Prof. V. N. Rajasekharan Pillai, Vice-Chancellor, IGNOU, New Delhi on 9th August 2010. Developed with adherence to the guidelines of government of India standards, AIISH website is an outstanding source of information expanding to 322 pages in English, Hindi and Kannada with content management system to facilitate automatic uploading of notifications, tenders and job announcements. The website has got an exclusive subpage which provides access to all public education pamphlets prepared at AIISH for the benefit of persons with communication disorders as well as their caregivers.

**Inauguration of Gents Hostel:** The newly constructed gents hostel, 'Bodhi' was inaugurated by Dr. E. V. Ramana Reddy, Secretary, Department of Health and Family Welfare, Government of Karnataka on 18th September 2010. The hostel is built on an area of 2487.45 sq. mts in 3 floors. It has 40 single and 18 triple rooms.

**Opening Ceremony of International Guest House:** Sri. B. S. Yeddyurappa, honourable Chief Minister of Karnataka inaugurated the 'Ashoka' international guest house at AIISH Panchavati Campus on 8th October 2010. The guest house has 15 VIP family suites and is built on a total area of 1,233 sq. mts. The building has been constructed at a cost of ` 158 lakhs. Medical Education and Mysore District In-Charge Minister Sri. S. A. Ramadas and Forest Minister Sri. C. H. Vijayashankar were present during the occasion.

3.

Academic Accomplishments

AIISH offers a diversified academic programs ranging from diploma to post-doctorates designed to meet the ever-increasing requirements of skilled and specialised manpower in the area of communication disorders.

**I. Academic Programs Offered**

Last year, the institute offered three diploma, three post-graduate diploma, two under-graduate and three post-graduate degree programs. These are in addition to the two doctoral and one post- doctoral programs. The courses had the approval of the University of Mysore/Rehabilitation Council of India. Of these 14 programs, Diploma in Hearing, Language and Speech (DHLS) was offered in 12 centres across the country and c l a s s e s w e r e c o n d u c t e d t h r o u g h v i d e o conferencing. Table 1 shows the details of the programs.

Table: 1: Academic Programs Offered.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No.** | **Name of the programme** | **Duration** | **No. of seats available** |
|  | Diploma (HA & ET) | 1 year | 25 |
|  | DTY(DHH) | 1 year | 20 |
|  | DHLS | 1 year | 300🟋 |
|  | BASLP | 4 years | 62 |
|  | B.S.Ed. (Hearing Impairment) | 1 year | 20 |
|  | PGDFSST | 1 year | 10 |
|  | PGDCLSLP | 1 year | 10 |
|  | PGDNA | 1 year | 10 |
|  | M.Sc. (Speech-Language Pathology) | 2 years | 36 |
|  | M.Sc. (Audiology) | 2 years | 36 |
|  | M.S.Ed. (Hearing Impairment) | 1 year | 20 |
|  | Ph.D. (Audiology) | 3 years | 4 |
|  | Ph.D. (Speech-Language Pathology) | 3 years | 4(backlog-3) |
|  | Post Doctoral Program | 2 years | 2 |
|  | **Total** |  | **562** |

 \*25 each in 12 centres

New Academic Program: A new program titled 'Post-Graduate Diploma in Neuro-audioolgy' with a duration of one year was launched last year. Neuroaudiology is a specialized branch of Audiology that deals with the structure, function and disorders of auditory neural pathway and the allied neural network. The course objectives include provision of specialised training focussed on assessment of auditory neural processing and its dysfunctions and promotion of interdisciplinary research activities in the area of Neuro-audiology.

**II. Admission and Enrolment**

Admissions to bachelor's degree in Speech and Hearing, master's degree in Audiology and Master's degree in Speech - Language Pathology were based on the merit obtained in the national level entrance examination conducted by the Institute. Admissions to all the diploma and post- graduate diploma courses, bachelor's and master's degrees courses in Special Education

were done based on the merit of qualifying examinations. Students were admitted to Ph.D and Post – Doctoral programs based on interview and merit in the qualifying examination.

Last year, 482 students appeared for the B.Sc (Speech and Hearing) entrance examination conducted at Delhi, Kolkata, Guwahati, Mumbai, Chennai and Mysore. Entrance examinations to M.Sc in Audiology and M.Sc in Speech - Language Pathology were held at AIISH, Mysore were attended by 215 and 227 students, respectively.

Totally 362 students were admitted to various programs last year and among them 195 were girls.187 students were admitted to the Diploma in Hearing, Language and Speech in 12 study centres across the country. The details of students admitted to each course are given in table 2. State-wise distribution of students enrolled in 2010-11 is shown in figure 1.

Figure 1: State-wise distribution of Enrolled Students.



Table 2: Student Intake.

|  |  |  |
| --- | --- | --- |
| **Sl.****No** | **Name of the programme** | **No. of****intake** |
|  | Diploma (HA & ET) | 4 |
|  | DTY(DHH) | 8 |
|  | DHLSAIISH, Mysore | 6 |
|  | JIPMER, Puducherry | 18 |
|  | RIMS, Imphal | 17 |
|  | AIIPMR, Mumbai | 14 |
|  | RML, New Delhi | 14 |
|  | RIMS, Ranchi | 14 |
|  | IGMC, Shimla | 4 |
|  | Cuttack | 18 |
|  | JNMC&H, Ajmer | 13 |
|  | Lucknow | 21 |
|  | Jabalpur | 23 |
|  | Bhagalpur | 25 |
|  | BASLP | 61 |
|  | B.S.Ed. (Hearing Impairment) | 3 |
|  | PGDFSST | 4 |
|  | PGDCLSLP | 3 |
|  | PGDNA | 8 |
|  | M.Sc. (Speech-Language Pathology) | 36 |
|  | M.Sc. (Audiology) | 36 |
|  | M.S.Ed. (Hearing Impairment) | 3 |
|  | Ph.D. (Audiology) | 2 |
|  | Ph.D. (Speech-Language Pathology) | 7 |
|  | Post Doctoral Fellowship | - |
|  | **Total** | **362** |

**Student Strength:** During the reporting year, 586 students were studying for various programs in the institute, the details of which are given in table 3.

Table 3: Student Strength.

|  |  |  |
| --- | --- | --- |
| **Sl.****No** | **Name of the Programmee** | **No. of****Students** |
|  | DHLS | 187🟋 |
|  | DHA&ET | 4 |
|  | DTY(DHH) | 8 |
|  | First Year B.Sc. (Sp. & Hg.) | 61 |
|  | Second Year B.Sc. (Sp. & Hg.) | 62 |
|  | Third Year B.Sc. (Sp. & Hg.) | 46 |
|  | Interns | 36 |
|  | First Year M.Sc. (Audiology) | 36 |
|  | Second Year M.Sc. (Audiology) | 36 |
|  | First Year M.Sc. (SLP) | 36 |
|  | Second Year M.Sc. (SLP) | 35 |
|  | B.S.Ed | 3 |
|  | M.S.Ed | 3 |
|  | PGDCLSLP | 3 |
|  | PGDFSST | 4 |
|  | PGDNA | 8 |
|  | JRF | 17 |
|  | Post Doctoral Fellowship | 1 |
|  | **Total** | **586** |

 🟋Total number of students in 12 study centres.

**III. Academic Awards**

The institute achieved spectacular results in the final examinations conducted last year with 100 percent pass in DHA & ET, DTYHI, PGDCL, PGDFSST and M.Sc Audiology examinations. For all other examinations, the pass percentage is 75 or more. The details of academic degrees awarded last year are given in table 4.

Table 4: Academic Awards: 2010-11.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.****No** | **Name of the Programme** | **No of students appeared** | **Overall pass** | **Percentage** |
| 1 | DHA & ET | 4 | 4 | 100 |
| 2 | DTYHI | 2 | 2 | 100 |
| 3 | DHLS | 187 | 151 | 80.74 |
| 4 | B.Sc. (Sp. & Hg.) | 38 | 35 | 90 |
| 5 | B.S.Ed. (HI) | 5 | 4 | 95 |
| 6 | PGDCL | 2 | 2 | 100 |
| 7 | PGDFSST | 3 | 3 | 100 |
| 8 | M.Sc. (Audiology) | 35 | 35 | 100 |
| 9 | M.Sc. (SLP) | 36 | 32 | 90 |
| 10 | M. S. Ed. (HI) | 4 | 3 | 75 |

**IV. Internship**

Fifth batch of internship students successfully completed their training for a period of ten months, during the reporting year. The training enabled the students to transfer their theoretical knowledge to clinical practice. Their posting in centres/institutions outside AIISH provided them with greater exposure to clinical population and settings different from that of AIISH. Internship students were actively involved in the outreach programs of the institute.

**V. Stipend and Other Financial Assistance**

The institute provides stipend to all the eligible students pursuing various courses. The details of stipend issued last year are given in table 5. Apart from this, students were also given financial assistance to attend and present papers at various national and international seminars. Ms. M.S. Deepa, doctoral student received fellowship from Department of Science & Technology, Govt.of India, to attend the 4th annual conference on coming of age: dementia in 21st century held at University of Stirling, Excel, London, on 19 - 24

 October 2010.

Table 5: Stipend Issued.

|  |  |  |
| --- | --- | --- |
| **Sl.****No** | **Name of the****Programme** | **Stipend per month(in.`)** |
| 1 | Diploma programmes | 250.00 |
| 2 | B.Sc. (Sp. & Hg.) | 400.00 |
| 3 | B.Sc. (Internship) | 1500.00 |
| 4 | B. S. Ed. (HI) | 400.00 |
| 5 | M.Sc. (Audiology) | 650.00 |
| 6 | M.Sc. (SLP) | 650.00 |
| 7 | M.S.Ed. (HI) | 650.00 |
| 8 | PG Diploma programmes | 500.00 |
| 9 | Ph. D. (1st and 2nd year) | 14000.00 + HRA |
| 10 | Ph. D. (3rd year) | 15000.00 + HRA |
| 11 | Post Doctoral Fellowship | 18750.00 + HRA |

**VI. Faculty**

Given the necessity of quality assurance in academic activities, more teaching faculty were recruited last year to cater for the growing student population. By the end of the fiscal year, the institute had a faculty strength of 53. This includes, 43 regular and 10 contract faculty. Category-wise, there were 35 lecturers, 9 readers and 9 professors. The size of faculty grew from 34 in 2009-10 to 53 in 2010-11.

Expertise in allied area such as Paediatrics, Pathology, Neurology and Genetics were augmented by inviting faculty from other premier institutions such as K. R. Hospital, Mysore; JSS Medical College, Mysore; BGS Apollo Hospital, Mysore who imbibed the students with their expert knowledge. Six guest faculty members belonging to allied area delivered their lectures last year.

**VII. Guest Lectures**

Many experts in speech and hearing and allied fields working in different organization world over visited the institute and delivered lectures on various topics last year as given in table 6.

Table 6: Guest Lectures Delivered.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.****No** | **Name** | **Topic** | **Date** |
|  | Dr. Sivaratnamma L Vaya, Director, Institute of Behavior Sciences and Directorate of Forensic Sciences, Gandhi Nagar, Gujarat. | Professional identity of clinical psychologist in India - where are we: An introspection. | 19-05-10 |
|  | Ms. Rajashree Sreerangarajan, Speech Language Pathologist , Palo Alto, California, USA. | Pragmatic intervention : Application in autism spectrum disorders. | 12-08-10 |
|  | Ms. Jyothi Murthy, Speech-Language Pathologist and Coordinator of Speech Language Services, TIEE,USA. | Preparing young children with autism spectrum disorders to learn language. | 12-08-10 |
|  | Dr. D.S. Guru, Associate Professor, Dept. of Computer Science, University of Mysore, Mysore. | Choice based credit scheme**(**CBCS) | 20-10-10 |
|  | Dr. Giri Hegde,Professor Emeritus of Speech Language Pathology, California State University, Fresno, USA. | Clinical research methods in communication disorders and on professional writing. | 11-12-10 |
|  | Dr. M D. Ravi, Professor of Paediatrics &Vice- Principal Clinical, JSS Medical College,Mysore. | Development of the auditory system. | 16-12-10 |
|  | Dr. T. K. Parthasarathy, Professor & Chairman, Dept of Special education, Southern Illinois University, USA. | Issues in assessment of auditory processing disorders in children. | 16-12-10 |
|  | Mr. Apurv Kumar, Clinical Specialist, Cochlear, Bangalore. | Cochlear implant candidacy: Issues and challenges | 17-12-10 |
|  | Mr. Milind Sonawane , Speech - Language Therapist, Ireland. | Assessment and intervention of autism spectrum disorders for caregivers. | 30-12-10 |
|  | Dr.G.N. Rangamani, Professor, St. Cloud State University, U.S.A. | Student assessment procedures | 27-01-11 |
|  | Dr. M.V. Kirtane, Professor Emeritus and ENT Consultant, Hinduja Hospital, Mumbai. | Evaluation of vestibular dysfunction: techniques and interpretation. | 29-01-11 |
|  | Dr. Pranesha Rao, Senior Speech Language Pathologist and Audiologist, Bangalore. | Alternate management techniques of vestibular disorders | 30-01-11 |
|  | Dr. Suma P.Bhat, Post-doctoral researcher, University of Illinois, Urbana-Champaign and Consultant for Educational Testing Services, Princeton, USA. | Automatic assessment of oral fluency in second language speech. | 28-02-11 |

**VIII. In-house Training Programs**

The departments and sections of the institute conduct in-house training programs to apprise the staff and students of various topics and matters related to speech and hearing and allied fields which help them to widen the knowledge base and excel in professional performance.

Previous year, 14 such in-house training programs were organized by the departments of Audiology, Clinical Services, Special Education, Speech - Language Pathology, Speech - Language Sciences and the academic section of the Institute.

**DEPARTMENT OF AUDIOLOGY**

The department conducted two in-house training programs, the details of which are given below.

|  |  |  |
| --- | --- | --- |
| **1** | **Coordinator(s)** | Dr. Vijayakumar Narne. |
|  | **Theme** | Staff enrichment program on ‘Introduction and application of MATLAB’. |
|  | **Objectives** | To orient regarding the application of MATLAB for stimulus generation, stimulus analysis, editing, EEG analysis and statistics. |
|  | **Target Audience** | JRF and staff from Audiology and other departments of the institute.  |
|  | **No. of Participants** | 15. |
|  | **Date** | 15 August 2010. |

|  |  |  |
| --- | --- | --- |
| **2** | **Coordinator(s)** | Dr. Manjula P and Ms. Megha. |
|  | **Theme** | Cochlear Implant . |
|  | **Objectives** | To orient on rehabilitation, speech coding strategies, fitting parameters of Maestro 4.0 software, candidacy of middle ear input and Auditory brainstem implant. |
|  | **Target Audience** | I M.Sc. (Aud), II M.Sc. (Aud), JRFs, Staff of the Department. |
|  | **No. of Participants** | 57. |
|  | **Date** | 5 March 2011. |

**DEPARTMENT OF SPECIAL EDUCATION**

The department organized the following in-house training programs during last year.

|  |  |  |
| --- | --- | --- |
| **1** | **Coordinator(s)** | Prof. K.S. Prema. |
|  | **Theme** | Early Intervention for Children with Hearing Impairment by Ms. Janani Jayaraman. |
|  | **Objectives** | Sensitize special educators on significance of early intervention for children with HI and orient on advanced techniques.  |
|  | **Target Audience** | Special Educators. |
|  | **No. of Participants** | 14. |
|  | **Date** | 24 June 2010. |

|  |  |  |
| --- | --- | --- |
| **2** | **Coordinator(s)** | Prof. K.S. Prema. |
|  | **Theme** | Checklist on Evaluating on Pre-school Children by Dr. Swapna N., Lecturer-Department of Speech Language Pathology. |
|  | **Objectives** | Orientation on the various checklists developed for evaluation of preschool children in order to employ the checklists in preschool training center. |
|  | **Target Audience** | Special Educators. |
|  | **No. of Participants** | 16.  |
|  | **Date** | 8 September 2010. |

**DEPARTMENT OF SPEECH-LANGUAGE PATHOLOGY**

The department also conducted five in-house training programs, the details of which are given below.

|  |  |  |
| --- | --- | --- |
| **1** | **Coordinator(s)** | Dr. R. Manjula & Dr. N.Swapna |
|  | **Theme** | Training to use Digital Swallow workstation |
|  | **Objectives** | Operation, recording and analysis of data using Digital Swallowing Workstation |
|  | **Target Audience** | Faculty, staff, research fellows from from different departments of AIISH |
|  | **No. of Participants** | 45 |
|  | **Date** | 11 October 2010 & 2 November 2010 |
| **2** | **Coordinator** | Dr. Swapna & Ms. Shylaja |
|  | **Theme** | To orient about the tests of Nonword repetition available in the Department of Speech-Language Pathology functioning |
|  | **Objectives** | Tests of Nonword repetition |
|  | **Target Audience** | Staff from different Departments of the Institute  |
|  | **No. of Participants** | 35  |
|  | **Date** | 18 November 2010  |
| **3** | **Coordinator** | Dr. Jayashree.C.Shanbal |
|  | **Theme** | Inhouse training program on Dyslexia Screening Test |
|  | **Objectives** | Administration and clinical implication of Dyslexia Screening Test |
|  | **Target Audience** | SLPs, Audiologists, Clinical Psychologists, Special Educators |
|  | **No. of Participants** | 25 |
|  | **Date** | 9 November 2010 |
| **4** | **Coordinator** | Dr.Vandana.V.P |
|  | **Theme** | Cognitive Linguistic Quick Test by Nancy Helm Estabrooks (2001 |
|  | **Objectives** | Orientation about the test |
|  | **Target Audience** | Speech Language Pathologists |
|  | **No. of Participants** | 14 |
|  | **Date** | 26 October 2010 |
| **5** | **Coordinator** | Mr. P. Gopi Kishore & Ms. Sripallavi |
|  | **Theme** | ‘Phonological Abilities Test’ and ‘Test Of Word Knowledge (TOWK) |
|  | **Objectives** | To create awareness about the test and its administration procedure and interpretation  |
|  | **Target Audience** | Professionals from various departments |
|  | **No. of Participants** | 24 |
|  | **Date** | 3 December 2010 |

**DEPARTMENT OF SPEECH-LANGUAGE SCIENCES**

The details of the in-house training programs conducted by the department during the reporting year are given below.

|  |  |  |
| --- | --- | --- |
| **1** | **Coordinator** | Dr. Y.V. Geetha |
|  | **Theme** | Neuroscan demonstration by Dr. Vijayakumar |
|  | **Objectives** | To provide insight into neuroscan instrumentation and software |
|  | **Target Audience** | Dept. of SLS & SLP staff |
|  | **No. of Participants** | 30 |
|  | **Date** | 3 June 2010 |
| **2** | **Coordinator** | Dr. Y.V. Geetha |
|  | **Theme** | Multimedia language lab instrument demonstration by Mr. Nagesh, Bangalore |
|  | **Objectives** | Demonstration of Multimedia Language Software |
|  | **Target Audience** | Dept. of SLS & SLP staff |
|  | **No. of Participants** | 30 |
|  | **Date** | 25 June 2010 |

**IX. Short-term Training/Orientation Programs**

The institute conducts short-term training and orientation programs designed to impart job skills to the professionals working in the area of communication disorders and allied fields and acquaint them to various tools and techniques. The scope of the programs also includes instructing the care givers and patient supporters including family members on matters related to caring people with communication disorders.

During the preceding year, different departments of the institute successfully conducted 47 such training programs under the supervision and coordination of faculty members, in which 287 persons were trained. The participants included teachers, professionals and students in speech and hearing and allied health institutions elsewhere in the country, care givers, supporters and parents of children with communication disorders.

**DEPARTMENT OF AUDIOLOGY**

The short-term training programs organized by department during preceding year are given below.

|  |  |  |
| --- | --- | --- |
| **1** | **Topic**  | Observed clinical activities of the Department. |
|  | **Objectives** | To sensitize the target population on prevention and identification of hearing impairment. |
|  | **Target Audience** | Student, Presentation Secondary School Miltown, County & Kertty, Ireland. |
|  | **Number of Participants** | 1. |
|  | **Date** | 7 June 2010. |

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| --- | --- | --- |
| **2** | **Topic**  | Observed clinical activities of the Department. |
|  | **Objectives** | To sensitize the target population on prevention and identification of hearing impairment. |
|  | **Target Audience** | C4D2, AIISH, Mysore. |
|  | **Number of Participants** | 11. |
|  | **Date** | May, June & July 2010. |

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| --- | --- | --- |
| **3** | **Topic**  | Audiological diagnosis and management. |
|  | **Objectives** | To provide clinical knowledge in evaluation and management of hearing impairment. |
|  | **Target Audience** | Internship students (Clinical), University of Applied Sciences, Utrecht, Dutch. |
|  | **Number of Participants** | 3. |
|  | **Date** | 12 -28 July 2010. |

|  |  |  |
| --- | --- | --- |
| **4** | **Topic**  | Audiological diagnosis and management |
|  | **Objectives** | To provide clinical knowledge in evaluation and management of hearing impairment. |
|  | **Target Audience** | PG students ,KIMS,Hubli. |
|  | **Number of Participants** | 2. |
|  | **Date** | 18 –19 October 2010. |

|  |  |  |
| --- | --- | --- |
| **5** | **Topic**  | Audiological diagnosis and management. |
|  | **Objectives** | To provide clinical knowledge in evaluation and management of hearing impairment. |
|  | **Target Audience** | ENT PG students, KIMS, Hubli. |
|  | **Number of Participants** | 2. |
|  | **Date** | 16 -21 December 2010. |

|  |  |  |
| --- | --- | --- |
| **6** | **Topic**  | Audiological diagnosis and management. |
|  | **Objectives** | To provide clinical knowledge in evaluation and management of hearing impairment. |
|  | **Target Audience** | PG students. Mysore Medical College, Mysore  |
|  | **Number of Participants** | 2. |
|  | **Date** | 15-16 December 2010. |

|  |  |  |
| --- | --- | --- |
| **7** | **Topic**  | Audiological diagnosis and management. |
|  | **Objectives** | To provide clinical knowledge in evaluation and management of hearing impairment. |
|  | **Target Audience** | ENT PG student. Mysore Medical College, Mysore. |
|  | **Number of Participants** | 1. |
|  | **Date** | 4 -5 January 2011. |

|  |  |  |
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| **8** | **Topic**  | Audiological diagnosis and management. |
|  | **Objectives** | To provide clinical knowledge in evaluation and management of hearing impairment. |
|  | **Target Audience** | ENT PG students , Medical College, Kolar. |
|  | **Number of Participants** | 2. |
|  | **Date** | 4 -5 January 2011. |

|  |  |  |
| --- | --- | --- |
| **9** | **Topic**  | Audiological diagnosis and management. |
|  | **Objectives** | To provide clinical knowledge in evaluation and management of hearing impairment. |
|  | **Target Audience** | ENT PG students , Medical College, Kolar. |
|  | **Number of Participants** | 2. |
|  | **Date** | 17-18 January 2011. |

**DEPARTMENT OF CLINICAL PSYCHOLOGY**

|  |  |  |
| --- | --- | --- |
| **1** | **Topic**  | 5th Contact program for parents under Certificate Course for Caregivers of Children with Developmental Disabilities (C4D2). |
|  | **Target Audience** | Parents of children with developmental disabilities. |
|  | **Number of Participants** | 15. |
|  | **Date** | 19-23 April 2010. |

|  |  |  |
| --- | --- | --- |
| **2** | **Topic** | 12th Contact program on ‘Sensitization on academic problems in school children for teachers in Karnataka’. |
|  | **Target Audience** | Inclusive Education Resource Teachers. |
|  | **Number of Participants** | 34. |
|  | **Date** | 31 May - 11 June 2010. |

|  |  |  |
| --- | --- | --- |
| **3** | **Topic** | 13th Contact program on ‘Sensitization on academic problems in school children for teachers in Karnataka’. |
|  | **Target Audience** | Inclusive Education Resource Teachers. |
|  | **Number of Participants** | 29. |
|  | **Date** | 12-23 July 2010. |

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| --- | --- | --- |
| **4** | **Topic** | 14th Contact program on ‘Sensitization on academic problems in school children for teachers in Karnataka’. |
|  | **Target Audience** | Inclusive Education Resource Teachers. |
|  | **Number of Participants** | 32. |
|  | **Date** | 16-27 August 2010. |

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| --- | --- | --- |
| **5** | **Topic** | 15th Contact program on ‘Sensitization on academic problems in school children for teachers in Karnataka’. |
|  | **Target Audience** | Inclusive Education Resource Teachers.  |
|  | **Number of Participants** | 38. |
|  | **Date** | 8-19 November 2010. |

**DEPARTMENT OF ELECTRONICS**

The department conducted the following two short-term training programs, last year.

|  |  |  |
| --- | --- | --- |
| **1** | **Topic**  | Acoustic measurements and calibration of audiological equipment. |
|  | **Objectives** | To give hands on training in measurements and calibration. |
|  | **Target Audience** | PG students,KIMS, Hubli. |
|  | **No. of participants** | 2. |
|  | **Date** | 27 October 2010. |

|  |  |  |
| --- | --- | --- |
| **2** | **Topic**  | Acoustic measurements and calibration of audiological equipment. |
|  | **Objectives** | To give hands on training in measurements and calibration |
|  | **Target Audience** | PG students ,KIMS, Hubli. |
|  | **No. of participants** | 1. |
|  | **Date** | 21 December 2010. |

**DEPARTMENT OF OTORHINOLARYNGOLOGY**

The department conducted 4 short-term training programs during the reporting year. The details are given below.

|  |  |  |
| --- | --- | --- |
| 1 | **Topic**  | Departmental facilities and activities.  |
|  | **Objectives** | To orient on various services provided by the department. |
|  | **Target Audience** | Post graduates ENT Students, KIMS, Hubli. |
|  | **No. of participants** | 2. |
|  | **Date** | 25-26 October 2010.  |

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| --- | --- | --- |
| 2 | **Topic**  | Departmental facilities and activities.  |
|  | **Objectives** | To orient on various services provided by the department. |
|  | **Target Audience** | Post graduates ENT Students, KIMS, Hubli. |
|  | **No. of participants** | 1. |
|  | **Date** | 28-29 October 2010. |
| 3 | **Topic**  | Departmental facilities and activities.  |
|  | **Objectives** | To orient on various services provided by the department. |
|  | **Target Audience** | Post graduates ENT Students, SDUMS Kolar. |
|  | **No. of participants** | 3. |
|  | **Date** | 10-11 January 2011. |
| 4 | **Topic**  | Departmental facilities and activities.  |  |
|  | **Objectives** | To orient on various services provided by the department. |  |
|  | **Target Audience** | Post graduates ENT Students, SDUMS, Kolar. |  |
|  | **No. of participants** | 2. |  |
|  | **Date** | 24-25 January 2011. |  |

**DEPARTMENT OF SPECIAL EDUCATION**

The department conducted 20 short-term training/orientation programs during the reporting year. The details are given below.

|  |  |  |
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| **1.** | **Topic**  | Case Study of Children with Special Needs. |
|  | **Objectives** | To provide orientation on Special Educational Services. |
|  | **Target Audience** | B.Ed Students, Vatsala College of Education, Mysore. |
|  | **Number of Participants** | 2.  |
|  | **Date** | 9 June 2010. |

|  |  |  |
| --- | --- | --- |
| **2** | **Topic** | Preschool training for Children with Autism. |
|  | **Objectives** | To provide orientation on Special Educational Services. |
|  | **Target Audience** | Ms. Geetha & Trainee from Aashiaana, Centre for Training Children with Autism, Mysore. |
|  | **Number of Participants** | 2. |
|  | **Date** | 16- 30 June 2010. |

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| **3** | **Topic** | Preschool training for Children with Communication Disorders. |
|  | **Objectives** | To provide orientation on Special Educational Services. |
|  | **Target Audience** | Trainees ,C4D2 Batch of April 2010. |
|  | **Number of Participants** | 14.  |
|  | **Date** | 4-30 June 2010. |

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| **4** | **Topic** | Preschool Training for Children with Communication Disorders. |
|  | **Objectives** | To provide orientation about Special Educational Services. |
|  | **Target Audience** | PG students, Coorg Institute of Dental Sciences. |
|  | **Number of Participants** | 5.  |
|  | **Date** | 5 July 2010. |

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| **5** | **Topic** | Preschool Training for Children with Communication Disorders. |
|  | **Objectives** | To provide orientation on Special Educational Services. |
|  | **Target Audience** | PG student,Coorg Institute of Dental Sciences. |
|  | **Number of Participants** | 1 . |
|  | **Date** | 26 July 2010. |

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| **6** | **Topic** | Practical Observation of Preschool Training for Children with Communication Disorders. |
|  | **Objectives** | To provide orientation on Special Educational Services. |
|  | **Target Audience** | Trainees , C4D2 Batch of April 2010. |
|  | **Number of Participants** | 2.  |
|  | **Date** | 1-15 July 2010. |
| **7** | **Topic** | Activities of the Department of Special Education. |
|  | **Objectives** | To provide orientation on Special Educational Services. |
|  | **Target Audience** | Speech & Hearing UG students , University of Utrecht. |
|  | **Number of Participants** | 3,  |
|  | **Date** | 16-20 August 2010. |
| **8** | **Topic** | Preschool training of children with impairment. |
|  | **Objectives** | To provide orientation on practice Teaching in Pre-school.  |
|  | **Target Audience** | D.Ed. – SE (HI) Students from Government Special Teacher Training Centre, Tilak Nagar. |
|  | **Number of Participants** | 06.  |
|  | **Date** | 13-15 September 2010. 20-22 September 2010. |
| **9** | **Topic** | Preschool training of children with hearing impairment. |
|  | **Objectives** | To provide orientation on practice Teaching in Pre-school. |
|  | **Target Audience** | D.Ed. – SE (HI) Students , Government Special Teacher Training Centre, Tilak Nagar. |
|  | **Number of Participants** | 06. |
|  | **Date** | 2­-6 November 2010. |

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| **10** | **Topic** | Pre-School services. |
|  | **Objectives** | To provide orientation on Special Educational Services. |
|  | **Target Audience** | Dr. Harsha, Dental College, Mysore. |
|  | **Number of Participants** | 1.  |
|  | **Date** | 24 December 2010. |

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| **11** | **Topic** | Pre-School services. |
|  | **Objectives** | To provide orientation on Special Educational Services. |
|  | **Target Audience** | Dr. Avanthika, Dental College, Mysore. |
|  | **Number of Participants** | 1.  |
|  | **Date** | 27 December 2010. |

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| **12** | **Topic** | Pre-School services. |
|  | **Objectives** | To provide orientation on Special Educational Services. |
|  | **Target Audience** | Dr. Rama Subba Reddy & Dr. Sreenath Venugopal Nair, Kolar. |
|  | **Number of Participants** | 2.  |
|  | **Date** | 21 January 2011. |

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| **13** | **Topic** | Pre-School services. |
|  | **Objectives** | To provide orientation on Special Educational Services. |
|  | **Target Audience** | Dr. Vanishree, Dr. George Babu, Dr. Jaya paul, Dr. Vipin Jain. K, Dr. M.J. Mathew & Dr. C.B. Sandeep, Coorg Institute of Dental Science, Virajpet. |
|  | **Number of Participants** | 7.  |
|  | **Date** | 31 January 2011. |

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| **14** | **Topic** | Pre-School services. |
|  | **Objectives** | To provide orientation on Special Educational Services. |
|  | **Target Audience** | B.Ed Students, St. Joseph’s College of Education,Mysore. |
|  | **Number of Participants** | 98. |
|  | **Date** | 10 April 2010. |

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| **15** | **Topic** | Pre-School services. |
|  | **Objectives** | To provide orientation on Special Educational Services. |
|  | **Target Audience** | B.Ed Students, Amrutha Mahavidyalaya College of Education,Mysore. |
|  | **Number of Participants** | 50. |
|  | **Date** | 17 April 2010. |

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| **16** | **Topic** | Use of Hearing Aid Analyzer and Tester. |
|  | **Objectives** | To orient Special Educators on Use of Hearing Aid Analyzer and Tester.  |
|  | **Target Audience** | Special Educators. |
|  | **Number of Participants** | 4. |
|  | **Date** | 12 May 2010. |

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| **17** | **Topic** | Use of Hearing Aid Analyzer and Tester. |
|  | **Objectives** | To orient Special Educators on Use of Hearing Aid Analyzer and Tester.  |
|  | **Target Audience** | Special Educators. |
|  | **Number of Participants** | 2. |
|  | **Date** | 14 May 2010. |
| **18** | **Topic** | Use of Hearing Aid Analyzer and Tester. |
|  | **Objectives** | To orient Special Educators on Use of Hearing Aid Analyzer and Tester.  |
|  | **Target Audience** | Special Educators. |
|  | **Number of Participants** | 4. |
|  | **Date** | 17 May 2010. |

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| --- | --- | --- |
| **19** | **Topic** | Use of Hearing Aid Analyzer and Tester. |
|  | **Objectives** | To orient Special Educators on Use of Hearing Aid Analyzer and Tester.  |
|  | **Target Audience** | Special Educators. |
|  | **Number of Participants** | 4. |
|  | **Date** | 17 May 2010. |

|  |  |  |
| --- | --- | --- |
| **20** | **Topic** | Use of Hearing Aid Analyzer and Tester. |
|  | **Objectives** | To orient Special Educators on Use of Hearing Aid Analyzer and Tester.  |
|  | **Target Audience** | Special Educators. |
|  | **Number of Participants** | 2. |
|  | **Date** | 20 May 2010. |

**DEPARTMENT OF SPEECH-LANGUAGE PATHOLOGY**

The department conducted 8 short-term training programs during the reporting year. The details are given below.

|  |  |  |
| --- | --- | --- |
| **1** | **Topic**  | Communication disorders: An overview. Speech disorders and their assessment and management |
|  | **Objectives** | To orient regarding different communication disorders and their rehabilitation |
|  | **Target Audience** | Shama.R.Chilakwad, student, Presentation secondary school, Miltown country, Kerry, Ireland |
|  | **Number of Participants** | 1 |
|  | **Date** | 9 June 2010 |

|  |  |  |
| --- | --- | --- |
| **2** | **Topic**  | Introduction to communication, language and speech disorders |
|  | **Objectives** | To sensitize about early identification and intervention of communication disorders |
|  | **Target Audience** | Masters in Dental sciences (Coorge institute of Dental Sciences) |
|  | **Number of Participants** | 2 |
|  | **Date** | 14 June 2010 |

|  |  |  |
| --- | --- | --- |
| **3** | **Topic**  | Introduction to speech and language disorders |
|  | **Objectives** | To give orientation and training regarding speech and language disorders |
|  | **Target Audience** | Postgraduate students, Dept of pedodontics, Coorg Institute of Dental Sciences, Virajpet |
|  | **Number of Participants** | 7 |
|  | **Date** | 8 and 29 July 2010 |
| **4** | **Topic**  | Introduction to Communication, language and speech disorders |
|  | **Objectives** | To sensitize about early identification and intervention of communication disorders |
|  | **Target Audience** | Intern (University of Applied Sciences, Utrecht.) |
|  | **Number of Participants** | 2 |
|  | **Date** | 10 August 2010 |

|  |  |  |
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| **5** | **Topic**  | Speech and language disorders |
|  | **Objectives** | To give orientation and training regarding speech and language disorders |
|  | **Target Audience** | Postgraduate students, KIMS, Hubli |
|  | **Number of Participants** | 1 |
|  | **Date** | 21 October 2010 |

|  |  |  |
| --- | --- | --- |
| **6** | **Topic**  | Speech and language disorders: Assessment and management |
|  | **Objectives** | To give orientation and training regarding speech and language disorders and management of the same |
|  | **Target Audience** | Postgraduate students, KIMS, Hubli |
|  | **Number of Participants** | 2 |
|  | **Date** | 23 December 2010 |

|  |  |  |
| --- | --- | --- |
| **7** | **Topic**  | Introduction to Communication, Language and Speech disorders |
|  | **Objectives** | To sensitize about early identification and intervention of communication disorders |
|  | **Target Audience** | Post Graduation in Dental sciences |
|  | **Number of Participants** | 3 |
|  | **Date** | 10 January 2011 |
| **8** | **Topic**  | Speech and language disorders: Assessment and management |
|  | **Objectives** | To give orientation and training regarding speech and language disorders and management of the same |
|  | **Target Audience** | Postgraduate students, Coorg Institute of Dental Sciences |
|  | **Number of Participants** | 4 |
|  | **Date** | 3 February 2011 |

**DEPARTMENT OF SPEECH-LANGUAGE SCIENCES**

The department organized 15 short-term training programs during the year under report, the details of which are given below.

|  |  |  |
| --- | --- | --- |
| **1** | **Topic**  | Acoustic analysis of vowels and its synthesis |
|  | **Objectives** | Training on formant frequency analysis and their synthesis |
|  | **Target Audience** | Students, SJCE, Mysore |
|  | **No. of participants** | 4 |
|  | **Date** | 29-30 April 2010 |

|  |  |  |
| --- | --- | --- |
| **2** | **Topic**  | Department and its activities |
|  | **Objectives** | Orientation on department and its activities  |
|  | **Target Audience** | Student of Presentation Secondary School, Ireland |
|  | **No. of participants** | One |
|  | **Date** | 10 June 2010 |

|  |  |  |
| --- | --- | --- |
| **3** | **Topic**  | Instruments in the department & their usage |
|  | **Objectives** | Orientation about instruments in the department & its usage. |
|  | **Target Audience** | Coorg Institute of Dental Sciences |
|  | **No. of participants** | 6 PG students in Pedodontics |
|  | **Date** | 9 July .2010 & 30 July 2010 |

|  |  |  |
| --- | --- | --- |
| **4** | **Topic**  | Acoustic phonetics |
|  | **Objectives** | To orient on the acoustic parameters of speech sounds |
|  | **Target Audience** | PG student, Loni |
|  | **No. of participants** | 1 |
|  | **Date** | 3-5 August 2010  |

|  |  |  |
| --- | --- | --- |
| **5** | **Topic** |  Voice , Fluency & Phonological disorders |
|  | **Objectives** |  To introduce voice , fluency & phonological disorders  |
|  | **Target Audience** |  Students of Univ. of Applied Sciences, Utrecht |
|  | **No. of participants** |  3  |
|  | **Date** |  23-27 August 2010  |

|  |  |  |
| --- | --- | --- |
| **6** | **Topic**  | Instruments in the department & its usage |
|  | **Objectives** | Orientation about instruments in the department & its usage  |
|  | **Target Audience** | ENT PG student from KIMS, Hubli. & MMC, Mysore |
|  | **No. of participants** | 4 |
|  | **Date** | 22-24 December 2010  |

|  |  |  |
| --- | --- | --- |
| **7** | **Topic**  | Instruments in the department & its usage |
|  | **Objectives** | Orientation about instruments in the department & its usage |
|  | **Target Audience** | Students, MMC, MysoreDevaraja Urs Medical College, Kolar |
|  | **No. of participants** | 3  |
|  | **Date** | 5 January .2011 |

|  |  |  |
| --- | --- | --- |
| **8** | **Topic**  | Instruments in the department & its usage |
|  | **Objectives** | Orientation about instruments in the department & its usage  |
|  | **Target Audience** | Coorg institute of dental sciences, Virajpet |
|  | **No. of participants** | 6  |
|  | **Date** | 4February2011 |

|  |  |  |
| --- | --- | --- |
| **9** | **Topic**  | Speech Language Transcription |
|  | **Objectives** | Training I MA (English) and MA (Linguistics) students on speech language transcription |
|  | **Target Audience** | I MA (English) and MA (Linguistics) students |
|  | **No. of participants** | 12 |
|  | **Date** | 2 May 2010 |

|  |  |  |
| --- | --- | --- |
| **10** | **Topic**  | Activities of Speech Language Sciences |
|  | **Objectives** | To provide orientation on the Activities of Speech Language Sciences. |
|  | **Target Audience** | Nursing students from Basappa Memorial Hospital, Mysore |
|  | **No. of participants** | 30 |
|  | **Date** | 14 June 2010 |

|  |  |  |
| --- | --- | --- |
| **11** | **Topic**  | Early literacy and identification of literacy failures |
|  | **Objectives** | To make aware of the importance of early literacy and identification of literacy failures  |
|  | **Target Audience** | IERT |
|  | **No. of participants** | 40 |
|  | **Date** | 23 August 2010 |

|  |  |  |
| --- | --- | --- |
| **12** | **Topic**  | Conservation of voice |
|  | **Objectives** | To provide orientation on conservation of voice |
|  | **Target Audience** | B.Ed students, BGS Apollo College,Mysore. |
|  | **No. of participants** | 100 |
|  | **Date** | 14 September 2010 |

|  |  |  |
| --- | --- | --- |
| **13** | **Topic**  | Conservation of voice |
|  | **Objectives** | To provide orientation on conservation of voice |
|  | **Target Audience** | B.Ed students, Sharada Vilas College of Education, Mysore. |
|  | **No. of participants** | 100 |
|  | **Date** | 19 October 2010 |
|  |  |  |
| **14** | **Topic**  | Conservation of voice |
|  | **Objectives** | To provide orientation on conservation of voice |
|  | **Target Audience** | M.Ed student, University of Mysore |
|  | **No. of participants** | 35 |
|  | **Date** | 16 November 2010 |

|  |  |  |
| --- | --- | --- |
| **15** | **Topic**  | Conservation of voice |
|  | **Objectives** | To provide orientation on conservation of voice |
|  | **Target Audience** | B.Ed students, St. Joseph’s college of Education, Mysore |
|  | **No. of participants** | 120 |
|  | **Date** | 24 February 2011 |

**CENTRE FOR REHABILITATION AND EDUCATION THROUGH DISTANCE MODE (CREDM)**

**A. Orientation Programs**

**A.1 Educational Guidance**

An orientation program on Educational guidance services was given on 30 Sptember 2010, for 109 individuals with communication disorders by Dr. Malar, Lecturer, Dept. of Special Education. It was done in English, Hindi and Tamil. The program was conducted for parents,caregivers and students of the 12 DHLS study centers,namely Delhi, Imphal, Jabalpur, Mumbai, Puducherry, Ranchi, Bhagalpur, Lucknow, Cuttack, Shimla, Ajmer and Mysore.

**A.2 Learning Disability**

An orientation Programme on Learning Disability was conducted on 04 March 2011 for 64parents/caregivers, allied professionals and students from 12 (Delhi, Imphal, Jabalpur, Mumbai, Puducherry, Ranchi, Bhagalpur, Lucknow, Cuttack, Shimla, Ajmer and Mysore) centres. The orientations were done in two languages, Hindi and English. Dr. Jayashree Shanbal, Lecturer in Language Pathology was the resource person. Along with this parents were given appropriate guidance and counselling on individual basis.

DEPARTMENT OF PREVENTION OF COMMUNICATION DISORDERS (POCD)

**A. Orientation Programs**

The department organized five orientation programs previous year, the details of which are given below.

|  |  |  |
| --- | --- | --- |
| **1** | **Topic**  | Communication Disorders: Early Identification and Prevention. |
|  | **Target Audience** | Social workers and health workers. |
|  | **Location** | Chamaraja Nagar. |
|  | **Coordinator(s)** | Mr. Ramesh Chandra. I and Ms. Bhavya.M. |
|  | **Date** | 18 May 2010. |

|  |  |  |
| --- | --- | --- |
| **2** | **Topic**  | Communication Disorders- Early Identification and Prevention. |
|  | **Target Audience** | Social workers and health workers. |
|  | **Location** | Kollegal. |
|  | **Coordinator(s)** | Mr. Ramesh Chandra. I and Ms. Bhavya.M. |
|  | **Date** | 19 May 2010. |
| **3** | **Topic**  | Prevention and early identification of Communication Disorders. |
|  | **Target Audience** | Nursing students, B.M. Hospital, Mysore. |
|  | **Location** | Department of POCD. |
|  | **Coordinator(s)** | Ms. Pragathi, E. |
|  | **Date** | 14 June 2010. |
| **4** | **Topic**  | Orientation to carry out survey of the population and identification of persons with communication Disorders. |
|  | **Target Audience** | ASHA workers – Gumballi, Selected Women volunteers- Hullahalli and Akkihebbalu. |
|  | **Location** | Department of POCD. |
|  | **Coordinator(s)** | Dr.Vijaylakshmi Basavaraj, Dr.R.Manjula, Ms. Pragathi. E, and Ms. Bhavya. M. |
|  | **Date** | 2 September 2010.  |

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| **5** | **Topic**  | Orientation to carry out survey of the population and identification of persons with communication disorders. |
|  | **Target Audience** | ASHA workers at Gumballi, Selected Women volunteers at Hullahalli and Akkihebbalu. Selected High school student volunteers of Gumballi, Hullahalli and Akkihebbalu. |
|  | **Location** | Department of POCD.  |
|  | **Coordinator(s)** | Dr. R. Manjula and Ms. Pragathi. E. |
|  | **Date** | 14 December 2010.  |

**X. Workshops/Seminars/Conferences**

In addition to the in-house training programs and short-term training programs, the institute also conducts professional workshops, seminars and conferences pertaining to various aspects of communication disorders and related areas. We organised 17 such programs previous year and 1395 professionals from across the country attended them. A few among them are given below.

* *Clinical research methods in communication disorders.* A workshop organised by the Dept. of Speech Language Pathology under the co-ordination of Dr. M. Pushpavathi to provide insight on the different research methodology applied in the field of communication disorders. The program  was  held  on  7th  December,  2010  which was attended by 80 postgraduate students, research scholars and faculty members of the institute.
* *Professional Voice: Assessment and Management.* National level workshop organised by the Dept. of Speech - Language Sciences under the co-ordination of Dr.S.R.Savithri to provide hands-on experience in assessment and management of professional voice. The program was held on 9 - 10 December, 2010 and 200 speech - language pathologists from across the country attended it.
* *National Seminar on Paediatric Hearing Assessment and Rehabilitation.* The seminar was organised by the Dept. of Audiology under the co-ordination of Dr. P. Manjula, and Ms. Geetha, C to provide the audiologists information regarding identification, assessment and rehabilitation of children with hearing loss.The program was held on 16 - 17 December, 2010 and 34 audiologists across the country attended it.
* *Introduction to Matlab.* A workshop organised by the Dept. of Electronics under the co-ordination of Sri. N. Manohar to train professionals and students in the area of Speech and Hearing on signal generation and processing tools available in Matlab. The program was held on 27 - 28 March, 2011 which was attended by 80 speech and hearing professionals.

**DEPARTMENT OF AUDIOLOGY**

The department conducted three seminars/conferences/workshops during previous year and the details are given below.

|  |  |  |
| --- | --- | --- |
| **1** | **Coordinator(s)** | Dr. K.J. Ramadevi and Mr. Darga Baba Fakruddin. |
|  | **Theme** | Fine-tuning of digital hearing aids for individuals with hearing impairment. |
|  | **Objectives** | To provide information on care, use, trouble shooting of digital hearing aids & recent advances in hearing aid technology. |
|  | **Target Audience** | Hearing aid users. |
|  | **No. of participants** | 12. |
|  | **Date** | 2. September 2010. |

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| --- | --- | --- |
| **2** | **Coordinator(s)** | Dr. P. Manjula & Ms. Geetha C. |
|  | **Theme** | National Seminar on Paediatric Hearing Assessment and Rehabilitation. |
|  | **Objectives** | To provide information regarding identification, assessment, & rehabilitation of children with hearing loss . |
|  | **Target Audience** | Audiologists. |
|  | **No. of participants** | 34. |
|  | **Date** | 16-17 December 2010. |

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| **3** | **Coordinator(s)** | Dr. Animesh Barman &Mr. Sujeet Kumar Sinha. |
|  | **Theme** | National Symposium on Evaluation and Management of Vestibular Problems. |
|  | **Objectives** | To understand the role of the vestibular system, causes, assessment and management of vestibular disorders.  |
|  | **Target Audience** | Practicing Audiologists, ENT Specialists and students. |
|  | **No. of participants** | 129. |
|  | **Date** | 29-30 January 2011. |

**DEPARTMENT OF CLINICAL SERVICES**

* Learning disability work shop for teachers from 4-8 October 2010
* Seminar on ‘Keeping the promise: Mainstreaming disability in the millennium development goals towards 2015 and beyond’ on 3 December 2010.

**DEPARTMENT OF ELECTRONICS**

**B. Seminars/Conferences/Workshops Conducted**

|  |  |
| --- | --- |
| **Co-ordinator** | Sri. N. Manohar. |
| **Theme** | Introduction to Matlab. |
| **Objectives** | To train the participants on the signal generation and processing tools available in Matlab. |
| **Target Audience** | Professionals and students in the area of Speech and Hearing. |
| **No. of participants** | 80. |
| **Date** | 27 March 2011. |

**DEPARTMENT OF SPECIAL EDUCATION**

The department conducted the following five seminars/conferences during the preceding year.

|  |  |  |
| --- | --- | --- |
| **1** | **Coordinator(s)** | Prof. K.S. Prema. |
|  | **Theme** | Development of Intervention Modules for Preschool Children with Communication Impairment.  |
|  | **Objectives** | Orientation on the intervention modules for preschool children in order to employ the modules in preschool training center. |
|  | **Target Audience** | Special Educators. |
|  | **No.of participants** | 25. |
|  | **Date** | 12 October 2010. |

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| --- | --- | --- |
| **2** | **Coordinator(s)** | Prof. K.S. Prema. |
|  | **Theme** | Role of Performance Arts in Language Training.  |
|  | **Objectives** | Orientation on Performance Arts in Language Training for preschool children.  |
|  | **Target Audience** | Special Educators. |
|  | **No.of participants** | 25. |
|  | **Date** | 22 October 2010. |

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| --- | --- | --- |
| **3** | **Coordinator(s)** | Prof. K.S. Prema. |
|  | **Theme** | Education in the Global Front.  |
|  | **Objectives** | To discuss the importance of education in the global front through international exchange programmes. |
|  | **Target Audience** | Fulbright Alumni, Faculty, Students from AIISH and Different DHLS Centers. |
|  | **No.of participants** | 150.  |
|  | **Date** | 19 November 2010. |

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| **4** | **Coordinator(s)** | Ms. Leena, Ms. Ramanakumari. P.V, Ms. B.N. Shobha & Dr. G. Malar. |
|  | **Theme** | Management of Children with Multiple Disabilities in Inclusive and Special Setup. |
|  | **Objectives** | To make aware of how to manage children with MD in Inclusive and Special Setup.  |
|  | **Target Audience** | B.S.Ed, M. S.Ed, Regualr B.Ed trainees. |
|  | **No. of participants** | 200.  |
|  | **Date** | 16 March 2011.  |

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| **5** | **Coordinator(s)** | Ms. Vijayalakshmi. S & Ms. Rasiabi. |
|  | **Theme** | Importance of Selection of Medium of Instruction for Mainstreaming and Curricular Support through Mother Tongue. |
|  | **Objectives** | To make aware the care givers regarding the importance of selection of medium of instruction. |
|  | **Target Audience** | Caregivers.  |
|  | **No. of participants** | 200 members. |
|  | **Date** | 18 March 2011.  |

**DEPARTMENT OF SPEECH-LANGUAGE PATHOLOGY**

The department conducted five seminars/conferences/workshops during previous year and the details are given below.

|  |  |  |
| --- | --- | --- |
| **1** | **Coordinator** | Dr. M. Pushpavathi |
|  | **Theme** | Clinical research methods in communication disorders by Prof.Giri Hegde |
|  | **Objectives** | To provide insight on the different research methodology applied in the field of communication disorders |
|  | **Target Audience** | II M.sc ( SLP ), II M.Sc ( aud ), faculty, JRF |
|  | **No. of participants** | 80  |
|  | **Date** | 7 December 2010 |
| **2** | **Coordinator** | Dr. M. Pushpavathi |
|  | **Theme** | Scientific report writing  |
|  | **Objectives** | To provide guidelines on the framework of statement of the research, writing method and reporting the research findings by Prof.Giri Hegde. |
|  | **Target Audience** | Faculty, JRF ,  |
|  | **No. of participants** | 30 |
|  | **Date** | 11 December 2010 |
| **3** | **Coordinator** | Dr. M. Pushpavathi |
|  | **Theme** | Pragmatic skills and its application in ASD on 10.9.2010 by Mrs. Rajashree Sreerangarajan  |
|  | **Objectives** |  To orient on different activities to enhance pragmatic skills in children with ASD |
|  | **Target Audience** | I MSc (SLP) and III BSc students and parents |
|  | **No. of participants** | 80 |
|  | **Date** | 12 August 2010. |
| **4** | **Coordinator** | Dr. N.Swapna and Dr. Pushpavathi |
|  | **Theme** | Preparing young children with autism spectrum disorder to learn language |
|  | **Objectives** | To orient regarding activities to be carried out in young children with autism to learn language |
|  | **Target Audience** | I MSc (SLP) and III BSc students and parents |
|  | **No. of participants** | 80. |
|  | **Date** | 12 August 2010. |

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| --- | --- | --- |
| **5** | **Coordinator** | Ms. Jayashree.C.Shanbal |
|  | **Theme** | Workshop on Assessment & Intervention of ASD for Caregivers by Mr. Milind Sonawane |
|  | **Objectives** | To orient the SLP and caregivers on the principle of different methods of therapeutic intervention method for children with ADHD |
|  | **Target Audience** | Caregivers and Speech Language Pathologists |
|  | **No. of participants** | 60 |
|  | **Date** | 30 December 2010 |

4.

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 were sponsored by national and international agencies like Department of Science & Technology, Government 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 are 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. *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.
4. *Comparative efficacy of BTEs over body level hearing aids in the development of speech and language among the hearing impaired children*. ` 5,03,000/- 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).

The ongoing extramurally funded research projects are the following:

1. *Impact evaluation of training courses in rehabilitation and special education.* ` 2,20,000 project work under the supervision of Dr. Vijayalakshmi Basavaraj and Dr. S. Venkatesan, Professor in Clinical Psychology 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.* ` 14,00,000 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 project work under the supervision of Dr S.R.Savithri, Director i/c 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 of consumer satisfaction inventory*. ` 2,00,000 project work under the supervision of Dr. Y.V.Geetha, Professorin Speech - Language Sciences.
2. *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.

The ongoing intramurally funded research projects included the following:

1. *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.
2. *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, Professor in Audiology, Bharatiya Vidya Peet, Pune.

**DEPARTMENT OF AUDIOLOGY**

**Research Activities**

1. **Funded Research Projects**

 **A.1 Projects with Extramural Funding**

|  |  |
| --- | --- |
| **1.Title**  | Issues and strategies for development of human resources for deafness prevention, identification and management. |
|  **Objectives** | To identify human resources and strategies for development of prevention, identification and management of hearing impairment. |
|  **Investigator(s)**  | Dr.Vijayalakshmi Basavaraj and Prof. Manjula P.  |
|  **Amount** | ` .2,00,000/- |
|  **Funding Agency** | World Health Organization. |
|  **Status** | Completed. |

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| **2. Title** | Support for the dissemination and use of hearing aids |
|  **Objectives** | To empower hearing aid beneficiaries by developing and distributing educational material for individuals with hearing impairment, regarding hearing aid use and care, tinnitus, prevention of hearing impairment. |
| **Investigator(s)**  | Dr.Vijayalakshmi Basavaraj and Prof. Manjula P. |
| **Amount** | `.2,17,000/- |
| **Funding Agency** | World Health Organization. |
| **Status** | Completed. |

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| **3.Title** | Comparative efficacy of BTEs over body level hearing aids in the development of speech and language among the hearing impaired children. |
| **Objectives** | To study merits of BTEs and binaural BTEs over body level and monaural hearing aids. |
| **Investigator(s)** | Prof. M Jayaram and Prof. Manjula P.  |
| **Amount** | `. 5,03,000/-. |
| **Funding Agency** | DRC (S&T). |
| Status  | Completed. |

**A.2 Projects with ARF Funding**

|  |  |  |
| --- | --- | --- |
| **1** | **Title** | Maturation of auditory processes in children aged 6-11 Years. |
|  | **Objectives** | To develop age appropriate norms on children for a battery of tests to identify (C)APD in a group of typically developing children at 2 centers.  |
|  | **Investigator(s)** | Dr. Asha Yathiraj and Dr. Vanaja C.S. |
|  | **Amount** | `.3,90,000/- |
|  | **Status** | Data collection for children with suspected (C)APD is under progress at Pune. |
|  | **Achievements in 2010-11** | The speech-in-noise test in English and revised auditory memory and sequencing test in English were developed. Data collection has been completed at Mysore center on typically developing children. |

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| **2** | **Title** | Pre-arithmetic school readiness test for children with hearing impairment. |
|  | **Objectives** | To develop a test for assessing the readiness of children with hearing impairment in pre-arithmetic skills and to assess the utility of the developed tests. |
|  | **Investigator(s)** | Dr. Asha Yathiraj, Dr. I P. Gowramma, Dr. G.Malar, Ms.Prithi Nair and Ms. P. Vijetha. |
|  | **Amount** | `.2,20,000/- |
|  | **Status** | Final test is being designed. |
|  | **Achievements in 2010-11** | Test material was developed and data was collected for 25 typically developing children.  |

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| **3** | **Title** | Prediction of speech identification scores using speech intelligibility index. |
|  | **Objectives** | A multi-centric study to evaluate the effectiveness of speech intelligibility index in prediction of SRS in Hindi, Marathi and Tamil languages. |
|  | **Investigator(s)** | Dr. Asha Yathiraj , Dr. Manjula P, Dr. Vanaja C.S and Mr. Heramba, G. |
|  | **Amount** | `.2,25,000/- |
|  | **Status** | In progress. |
|  | **Achievements in 2010-11** | Speech identification test materials have been recorded in the languages considered in the study. 55% of the data have been collected for all four languages. Of this, 83% has been collected in Kannada, 53% in Tamil, 55% in Hindi and 60% in Marathi. The collected data have been tabulated to estimate the Speech Intelligibility Index (SII) and predict speech recognition scores. |

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| **4** | **Title** | Efficacy of fine-grained auditory training in individuals with auditory dys-synchrony. |
|  | **Objectives** | To determine the efficacy of fine-grained auditory training among individuals with auditory dys-synchrony in the perception of voiced-voiced stop consonants on behavioural and electrophysiological measures. |
|  | **Investigator(s)** | Dr. Asha Yathiraj. |
|  | **Amount** | `.3,21,000/- |
|  | **Status** | Data collection is in progress. |
|  | **Achievements in 2010-11** | Pre and post therapy assessment and fine-grained auditory training has been completed on 75% of the clients with auditory dys-synchrony. The data collected has been tabulated and the draft version of the report is under preparation. |

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| **5** | **Title** | Servicing and repair of hearing aids: A profile. |
|  | **Objectives** | To explore various problems encountered by the hearing aid users who have obtained the hearing aids through ADIP scheme and HADS scheme and to quantify/list the problems faced by them when their hearing aids are given for repair. To take up steps or strategies for preventing such problems. |
|  | **Investigator(s)** | Dr. Manjula P, Ms. Devi N, Dr. Ramadevi K.J and Ms.Kalai Sevi.  |
|  | **Amount** | `.2,22,000/- |
|  | **Status** | The data were collected for 6 months and the tabulation of data is in progress.  |
|  | **Achievements in 2010-11** | Data were collected, for the hearing aid users for approximately 450 users in which EAC measurements was carried out for approximately 400 hearing aids, including pre- and post-repair.  |

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| **6** | **Title** | Audiovisual perception and processing in individuals with auditory dyssynchrony. |
|  | **Objectives** | To study audiovisual speech processing and perception in individuals with auditory dys-synchrony. |
|  | **Investigator(s)** | Dr. Sandeep M and Ms. Geetha C. |
|  | **Amount** | `.3,11,000/- |
|  | **Status** | Ongoing. |
|  | **Achievements in 2010-11** | Review of literature is completed. Data collection is in progress. 50% of the target data have been collected. |

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| **7** | **Title** | Cortical potential as measure of auditory temporal processes |
|  | **Objectives** | To study relationship between cortical potentials, gap detection and speech perception in individuals with auditory neuropathy, cochlear hearing loss and normal hearing. |
|  | **Investigator(s)** | Dr. Vijayakumar Narne, Dr. Animesh Barman and Mr. Sujeet Kumar Sinha. |
|  | **Amount** | `.3,24,000/- |
|  | **Status** | Statistical analysis and report writing is yet to be completed.  |
|  | **Achievements in 2010-11** | Data analysis has to be completed for the groups with cochlear hearing loss and normal hearing. |

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| **8** | **Title** | Protocol for vestibular assessment and its efficacy in differential diagnosis of balance disorders. |
|  | **Objectives** | To develop a protocol for differential diagnosis of balance disorders and to assess the efficacy of the developed protocol in differential diagnosis of the pathologies related to giddiness. |
|  | **Investigator(s)** | Mr. Niraj Kumar Singh, Mr. Sujeet Kumar Sinha and Dr. Rajeshwari G. |
|  | **Amount** | `.3,26,000/- |
|  | **Status** | In progress. |
|  | **Achievements in 2010-11** | Data collection is in progress. 2/3 portion of the data collection is over. |

**DEPARTMENT OF CLINICAL PSYCHOLOGY**

**RESEARCH ACTIVITIES**

**A.Funded Research Projects**

 **A.1** **Projects with Extramural Funding**

|  |  |  |
| --- | --- | --- |
| **1** | **Title**  | Sensitizing Teachers on Academic Problems in School children in Karnataka. |
|  | **Objectives** | To make aware of teachers on academic problems in school children. |
|  | **Investigator(s)** | Dr. S. Venkatesan. |
|  | **Funding Agency** | SSA. |
|  | **Amount** | `.14 lakhs. |
|  | **Status** | First Phase Completed. |
|  | **Achievements in 2010-11** | A team of resource persons covered topics related to academic problem, their assessment and remediation through lectures, case history taking, group discussion, individual case presentation etc. Each 12 day program covered 40 participants, every month through 15 batches completed.  |

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| **2** | **Title**  |  Impact Evaluation of Training Courses in Rehabilitation and Special Education under Rehabilitation Council of India. |
|  | **Objective** | Impact Evaluation of Training Courses. |
|  | **Investigator(s)** | Dr. Vijayalakshmi Basavaraj and Dr. S. Venkatesan. |
|  | **Funding Agency** |  RCI, Mini. of Social justice & Empwrmnt, Govt.of India. |
|  | **Amount** | `. 2.22 lakhs. |
|  | **Status** | Ongoing. |
|  | **Achievements in 2010-11** | Important parameters were evaluated such as teacher-pupil evaluation, process and outcome evaluation, temporal or time based evaluation like Baseline, Mid-term and Terminal Evaluation, content evaluation and utility evaluation.Field visits and data collection is completed and data analysis is ongoing. |

**A.2 Project with ARF Funds**

|  |  |  |
| --- | --- | --- |
| **1** | **Title**  | Development and Standardization of Autism Behavior Check list for Disability Estimation (A2E).  |
|  | **Objective** | To identify a specific set of behavioral features that characterize most of the children diagnosed as autism or related conditions. |
|  | **Investigator(s)** | Dr. S. Venkatesan. |
|  | **Amount** | `.4.85 lakhs. |
|  | **Status** | Ongoing. |
|  | **Achievements in 2010-11** | Pilot data collected from 26 cases of children with communication disorders by method of observation, interviewing parents, use of checklist is in progress. A departmental presentation and review about project was done. |

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| **2** | **Title**  | Process evaluation of DHLS program conducted through Actual vis-à-vis virtual modes. |
|  | **Objective** | Process evaluation of the ongoing DHLS program. |
|  | **Investigator(s)** | Dr. Vijayalakshmi Basavaraj and Dr. S. Venkatesan. |
|  | **Amount** | `.8.52 lakhs. |
|  | **Status** | Ongoing. |
|  | **Achievements in 2010-11** | 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. |
| **3** | **Title**  | Enabling and empowering siblings of children with communication disorders. |
|  | **Objective** | To study the psychosocial correlates of siblings of children with disabilities. |
|  | **Investigator(s)** | Dr. S. Venkatesan. |
|  | **Amount** | `.3.19 Lakhs. |
|  | **Status** | Ongoing. |
|  | **Achievements in 2010-11** | Data has been collected from the normal siblings of disabled children by using semi-structured interview, open ended questions to find out their knowledge, opinion, attitude etc., towards the affected child. |

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| 4 | **Title**  | Impact evaluation of government benefits and concession provided to persons with mental retardation belonging to Mysore district. |
|  | **Objective** | To undertake an impact evaluation of Monthly Pension Scheme for the mental retarded.  |
|  | **Investigator(s)** | Dr. G. Jayaram.  |
|  | **Amount** | ` 3.20 lakhs. |
|  | **Status** | Ongoing. |
|  | **Achievements in 2010-11** | The following tools are finalized for the project: Socio-demographic data sheet, attitude scale towards the benefits and concessions scheme provided to individuals with mental retardation (ASBCS),Impact evaluation scheme/ format.A letter to DC-Mysore District seeking the permission to carry out the program has been finalized and address of all the beneficiaries are short listed. |

**DEPARTMENT OF CLINICAL SERVICES**

**A. Funded Research projects**

**A.1 ARF Research projects**

The details of AIISH research funded projects of the department are given in table 22. There were 3 completed projects and 12 projects were going on by the end of the reporting year.

Table 22: ARF Projects.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No** | **Title** | Investigator(s) | **Status** |
|  | Field testing of manual for adult non-fluent Aphasia – Kannada (MANAT-K). | Dr. S.P. Goswami,Ms.Jayashree C. Shanbal.  | Completed |
|  | Assessment Battery for Children with Learning Disability (ABCLD). | Ms. Jayashree.C. Shanbal,Dr. S.P. Goswami. | Completed |
|  | Prevalence and nature of Epilepsy in children with communication disorders. | Ms. Sangeetha.M,Dr.Y.V.Geetha &Dr. Somnath Vasudev. | Completed |
|  | Screening Test for acquisition of Syntax in Hindi: An Adaption of STASK. | Dr. Vijayalaksmi Basavaraj, Dr. S.P. GoswamiMr. Brajesh Priyadarshi. | Ongoing |
|  | Field Testing of Manual of Adult Non- Fluent Therapy-in Kannada. | Dr. S.P. Goswami,Ms. Jayashree C. Shanbal.  | Ongoing |
|  | Assessment Battery for Children with Language based Learning Disability (ABC-LLD)- Phase II. | Ms. Jayashree C. Shanbal. Dr. S.P. Goswami. | Ongoing |
|  | Computerized Screening Test for acquisition of Syntax in Hindi (STAS-H). | Mr. Ajish Abrahim,Dr. Vijayalaksmi Basavaraj,Dr. S.P. Goswami,Mr. Brajesh Priyadarshi. | Ongoing |
|  | Screening Test for acquisition of Syntax in Malayalam (STAS-M). | Ms.Preethi Thomas, Dr.S.P.Goswami.  | Ongoing |
|  | Screening Test for acquisition of Syntax in Telugu (STAS-T). | Mr.Gopi Kishore,Dr.S.P.Goswami.  | Ongoing |
|  | Development of Audio-Video database for communication disorders. | Mr. R. Gopi Sankar, Dr.S.P.Goswami, Ms.Preethi Thomas. | Ongoing |
|  | Pattern of recovery in children with stuttering.  | Dr.Y.V.Geetha,Ms.Sangeetha Mahesh. | Ongoing |
|  | Treatment efficacy using response cost in children with stuttering. | Dr.Y.V.Geetha,Ms.Sangeetha Mahesh. | Ongoing |
|  | Developmental pattern of children with Down’s syndrome: An exploratory study (Kannada) - Phase I. | Dr.M.Pushpavathi,Ms.Preethi Thomas Dr. Venkatesh.S, Mr. Siddesh,Mr. Jayakaran. | Ongoing |
|  | Audio-visual resource manual on voice disorders.  | Dr.M.Pushpavathi, Dr. Jayanthi Ray, Mr.R.Gopi Sankar, Dr.H.Sundarraju,Dr. Girish Kulkarni. | Ongoing |
|  | Speech characteristics in children with oral clefts pre & post surgery: A longitudinal study.  | Dr.M.Pushpavathi,Dr.H.V.Sathish, Mr.R.Gopi Sankar. | Ongoing |

**DEPARTMENT OF ELECTRONICS**

 **RESEARCH ACTIVITIES**

1. **Funded Research Projects**

**A.1 Projects with Extramural Funding**

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| **1** | **Title** | Design and Development of Speech Enhancer. |
|  | **Objectives** | To develop a prototype of Speech Enhancer and conduct field trials. |
|  | **Investigator(s)**  | Sri. Ajish K Abraham. |
|  | **Funding Agency** | Society for Biomedical Technology, DRDO, Govt. of India. |
|  | **Amount** | ` 2 lakhs. |
|  | **Status** | Completed. |
|  | **Achievements in 2010-11** | Prototype has been developed and clinical trials are going on. |

 **A.2 Projects with ARF Funding**

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|  **1** | **Title** | Computerized Screening test for acquisition of syntax in Hindi (STASH) : An Adaption of STASK. |
|  | **Objectives** | To computerize the screening test for acquisition of syntax in Hindi. |
|  | **Investigator(s)**  | Sri. Ajish K Abraham, Dr. S.P Goswamy and Sri. Brijesh Priyadarshi. |
|  | **Amount** | `. 5.8 lakhs. |
|  | **Status** | Ongoing. |
|  | **Achievements in 2010-11** | Basic modality for computerization has been finalized, software development in progress. |

**DEPARTMENT OF SPECIAL EDUCATION**

**Research Activities**

**A. Funded Research Projects**

**A.1. Projects with ARF Funding**

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| **1** | **Topic**  | Efficacy of Multidisciplinary Preparatory Services of AIISH in Mainstreaming Children with Communication Disorders. |
|  | **Objectives** | To survey the impact of multidisciplinary early intervention services offered at AIISH on the current school performance of children with different kinds of communication disorders. |
|  | **Investigator(s)** | Dr. Vijayalakshmi Basavaraj Dr. G. Malar, Dr. N. Sreedevi and Mr. C.B. Suresh. |
|  | **Amount** | Rs. 3.32 lakhs. |
|  | **Status** | Ongoing. |
|  | **Achievements in 2010-11** | The project commenced with appointment of 2 research staff in the month of February 2010. In the ensuing 2 months tools were developed. In the one year between April 2010 and March 2011 maximum possible former clients and mainstream teachers were covered.  |

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| **2** | **Title** | Special Educators Knowledge, Attitude and Practice with Regard to Early Intervention. |
|  | **Objectives** | To assess the knowledge of special educators about the early intervention strategies for children with hearing impairment and to assess the attitude of special educators towards early intervention programmes for children with hearing impairment. |
|  | **Investigator(s)** | Ms. Prithi Nair and Dr. I.P. Gowramma. |
|  | **Amount** | Rs. 2.20 lakhs. |
|  | **Status** | Ongoing. |
|  | **Achievements in 2010-11** | Data collection has been completed using the developed tool. Analysis was done on the basis of qualifications and experience of the teachers. Finalization of the project report is under progress. |
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| **3** | **Title** | Attitude of Preservice Educators towards Inclusive Education |
|  | **Objectives** | To develop an attitude scale for assessing the attitude of pre-service educators and teacher educators towards inclusive education. |
|  | **Investigator(s)** | Ms. Palnaty Vijetha and Ms. Prithi Nair |
|  | **Amount** | Rs. 2.50 lakhs |
|  | **Status** | Ongoing |
|  | **Achievements in 2010-11** | Post-data have been collected from 291 teacher trainees in 05 B.Ed colleges only which were selected randomly. Analysis of the same has been completed. The project report is being finalized to be submitted. |

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| **4** | **Title** | School Readiness Test in Mathematics. |
|  | **Objectives** | To develop a test for assessing the readiness of children with Hearing Impairment in Pre-Arithmetic Skills. |
|  | **Investigator(s)** | Prof. Asha Yathiraj, Dr. I.P. Gowramma, Ms. Prithi Nair, Ms. Palnaty Vijetha and Dr. G. Malar. |
|  | **Amount** | Rs. 2.20 lakhs. |
|  | **Status** | Ongoing. |
|  | **Achievements in 2010-11** | Data collection has been completed with the final test being administered on 37 children with hearing impairment and 100 typically developing children ranging in the age from 4.5-6 years. Finalization of the project report is under progress. |

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| **5** | **Title** | Effectiveness of FM System in Preschool Groups of Children with Hearing Impairment. |
|  | **Objectives** | To evaluate the effectiveness of FM system in preschool groups of children with Hearing Impairment. |
|  | **Investigator(s)**  | Dr.Vijayalakshmi Basavaraj and Ms. Anagha. D. |
|  | **Amount** | Rs. 2.40 lakhs. |
|  | **Status** | Ongoing. |
|  | **Achievements in 2010-11** | Language evaluation was carried out based on Computerized Linguistic Protocol for screening (CLiPS). Data has been compiled and report is under progress.  |

**DEPARTMENT OF SPEECH-LANGUAGE PATHOLOGY**

**Research Activities**

1. **Funded Research Projects**

 **A.1 Projects with Extramural Funding**

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| **1** | **Title** | Language and Brain organization in Normative Multilingualism |
|  | **Objectives** | To investigate code switching between languages among bilinguals and among multilinguals. Language proficiency and Code switching would be examined separately in bilinguals and in multilinguals |
|  | **Investigator(s)** | Dr. Shyamala. K.C |
|  | **Funding Agency** | Department of Science and Technology (DST) |
|  | **Amount** | `12, 84,000  |
|  | **Status** | Ongoing  |
|  | **Achievements in 2010-11** | Developed language proficiency questionnaire – Data collected for 20-40 years – bilinguals and multilingual – Data collection is going on for 41-69 years bilingual/multilingual. Analysis for 20-40 years age group and writing review of literature is in progress. |

 **A.2 Projects with ARF Funding**

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| **1** | **Title** | Effect of Palatal Obturator on Speech |
|  | **Objectives** | To analyze the speech characteristics with respect to acoustical and perceptual aspects before and after providing different types of speech appliances to clients with repaired/unrepaired maxillofacial anamolies |
|  | **Investigator(s)** | Dr. M. Pushpavathi, Dr. N. Sreedevi, Dr. Dakshayini.M,  |
|  | **Amount** | `4,98,000 |
|  | **Status** | Ongoing  |
|  | **Achievements in 2010-11** | The documentation of three different cases (an adult with unrepaired cleft, an adult sub mucous cleft and a child with repaired cleft) with respect to audio visual recording of prosthesis preparation and speech analysis is completed. |

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| **2** | **Title** | Audio Visual resource manual on Voice Disorders |
|  | **Objectives** | This project aims to compile the audio visual data bank of different cases with voice disorders and provide clinical insight on the assessment and management of cases with voice disorders |
|  | **Investigator(s)** | Dr. M. Pushpavathi, Dr. Jayanthi Ray, Dr. Sundarraj.H, Mr. Gopi Sankar and Dr. Girish Kulkarni |
|  | **Amount** | ` 4,98,000 |
|  | **Status** | Ongoing  |
|  | **Achievements in 2010-11** | The assessment tools with respect to case history and other details have been compiled. Video script for instrumentation and case history is prepared. Three different cases of voice disorders are completely recorded from the assessment to the rehabilitation. |

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| **3** | **Title** | Speech characteristics in children with oral cleft – Pre and post surgery a Longitudinal study |
|  | **Objectives** | The project is aimed to analyse the speech characteristics (articulatory, resonatory and speech intelligibility) in different cases with cleft palate before and after surgery |
|  | **Investigator(s)** | Dr. M. Pushpavathi, Dr. Sathish.H, Mr. Gopi Sankar |
|  | **Amount** | ` 4,98,000 |
|  | **Status** | Ongoing  |
|  | **Achievements in 2010-11** | Public education material on rehabilitation of cleft lip and palate in Kannada is prepared. The assessment checklist for toddlers with cleft palate is compiled. |
| **4** | **Title** | Speech Characterstics in children with oral cleft – Pre and post surgery a Longitudinal study in Malayalam |
|  | **Objectives** | The project is aimed to analyse the speech characteristics (articulatory, resonatory and speech intelligibility) in different cases with cleft palate before and after surgery |
|  | **Investigator(s)** | Dr. M. Pushpavathi, Dr. Sherry Peters, Dr. Subramani Iyer |
|  | **Amount** | ` 4,98,000 |
|  | **Status** | Ongoing  |
|  | **Achievements in 2010-11** | Material for nasometer assessment has been compiled and review of articles have been done |
| **5** | **Title** | Speech Characterstics in children with oral cleft – Pre and post surgery a Longitudinal study in Telugu |
|  | **Objectives** | The project is aimed to analyse the speech characteristics (articulatory, resonatory and speech intelligibility) in different cases with cleft palate before and after surgery |
|  | **Investigator(s)** | Dr. M. Pushpavathi, Dr. Srinivas Ghosla Reddy, Dr. Swati Ravindran |
|  | **Amount** | ` 4,98,000 |
|  | **Status** | Ongoing  |
|  | **Achievements in 2010-11** | Memorandum of understanding between the Hospitals has been signed. Material for nasometer assessment has been compiled and review of articles have been done |

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| **6** | **Title** | Early intervention module for parents of children with cleft lip and palate in Kannada & English (Phase I) |
|  | **Objectives** | This project is focused on developing early intervention module for children (below 3 years) with cleft palate and to provide training for parents to work on improving speech intelligibility, articulation. |
|  | **Investigator(s)** | Dr. M. PushpavathiDr. Sathish V.HMr. Gopi Kishore, Mr. Gopisankar |
|  | **Amount** | ` 6,07,000/ |
|  | **Status** | Ongoing |
|  | **Achievements in 2010-11** | The video recording on improving auditory discrimination, articulation and improving resonance and speech intelligibility in children with CLP has been done and the same is in use to provide training for the parents. |

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| **7** | **Title** | Development and Standardization of Boston Naming Test in bilinguals (Kannada - English and Telugu – English) |
|  | **Objectives** | To develop the Boston Naming Test in Different Languages |
|  | **Investigator(s)** | Dr. Shyamala. K.C |
|  | **Amount** | ` 4,06,000.00 |
|  | **Status** | Completed (2010)  |
|  | **Achievements in 2010-11** | The Boston Naming Test (BNT) has not been standardized in any of the Indian languages. Hence a first step toward accurate interpretation of naming performance of Indian clinical populations was to develop BNT in Kannada and Telugu and obtain normative data on healthy adults who are proficient in Kannada and Telugu languages. Both goals were accomplished.  |
| **8** | **Title** | Cognitive linguistic deficits in Aphasia |
|  | **Objectives** | To investigate cognitive linguistic deficits in Individuals with aphasia |
|  | **Investigator(s)** | Dr. Shyamala. K.C |
|  | **Amount** | ` 2,62,000.00 |
|  | **Status** | Completed  |
|  | **Achievements in 2010-11** | 20 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 subjects were analyzed for various cognitive linguistic deficits present. The results revealed that individuals with Aphasia showed deficits in most of the cognitive domains with decreasing order of affected cognitive skills with decrease in the severity. |

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| **9** | **Title** | Genotyping and a Genetic association study in Autism. |
|  | **Objectives** | To investigate the genotyping and genetic association in children with autism as the number and role of genes playing in Autism are still not clear |
|  | **Investigator(s)** | Dr. Shyamala. K.C |
|  | **Amount** |  ` 5,72,000.00 |
|  | **Status** | Ongoing  |
|  | **Achievements in 2010-11** | Data collection in progress. Review of literature completed. Blood samples collected for 140 patients including 50 Autistic cases, parents & siblings DNA extraction is done with 120 samples and stored in 80 C Primer designed for 5 SNPs which are selected for Genogyping |

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| **10** | **Title** | Language performance of Kannada – English (K-E) bilingual individuals with Dementia |
|  | **Objectives** | To develop & establish preliminary normative data if Dementia Assessment Battery in Kannada & English and to compare the Language performance on Kannada-English bilingual speakers with dementia |
|  | **Investigator(s)** | Dr. Shyamala. K.C |
|  | **Amount** |  ` 5,92,000.00 |
|  | **Status** | Ongoing  |
|  | **Achievements in 2010-11** | Introduction and review completed. Data collection of 4 geriatrics and 29 adults completed |
| **11** | **Title** | Development and standardization of Noun Verb picture Battery in Kannada and Malayalam |
|  | **Objectives** | To provide a resource for the clinical practice in speech language pathology and also for the research in aphasiology, neuro- and psycholinguistic disciplines. |
|  | **Investigator(s)** | Mr. Gopee Krishnan, Mrs. Shivani Tiwari, Dr. Rajashekar. B, Dr. Shyamala. K.C |
|  | **Amount** |  ` 5,92,000.00 |
|  | **Status** | Ongoing  |
|  | **Achievements in 2010-11** | Review and data collection completed. Analysis is in progress. |

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| **12** | **Title** | Reading Acquisition in children learning two distinct orthographies Malayalam and English |
|  | **Objectives** | To investigate reading acquisition in children learning to read two distinct orthographies, Malayalam and English simultaneously |
|  | **Investigator(s)** | Mrs. Shivani Tiwari, Dr. Shyamala. K.C, Dr. Rajashekar. B, Mr. Gopee Krishnan |
|  | **Amount** |  ` 3,16,000.00 |
|  | **Status** | Ongoing  |
|  | **Achievements in 2010-11** | Review & Data collection completed. Analysis is in progress. |

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| **13** | **Title** | Standardization of Western Aphasia Battery (WAB) in Telugu Monolinguals and Telugu –English (T-E) Bilinguals. |
|  | **Objectives** |  To standardize WAB in Telugu language |
|  | **Investigator(s)** | Dr.Shyamala.K.C |
|  | **Amount** |  ` 3,16,000.00 |
|  | **Status** | Ongoing  |
|  | **Achievements in 2010-11** | Data collection is partially completed and analysis on Telugu mono and bilingual (Telugu-English) is going on. BAT is also being administered for comparison purposes.  |

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| **14** | **Title** | Comparison of muscle potentials of synergistic and antagonistic primary masticatory muscles as a function of age and task |
|  | **Objectives** | To analyze and compare the muscle potentials of synergistic and antagonistic primary masticatory muscles in three groups of participants (children, adults and geriatric) and two tasks (non speech and speech) using EMG module of the Digital Swallow workstation |
|  | **Investigator(s)** | Dr. R. Manjula & Dr. N. Swapna |
|  | **Amount** |  ` 2.57 lakhs |
|  | **Status** | Ongoing |
|  | **Achievements in 2010-11** | Data collection and analysis is in progress .Statistical analysis and reporting to be completed |

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| **15** | **Title** | Development and field testing of low cost supportive and mobility aids appliances for persons with physical disability – Phase I  |
|  | **Objectives** | To analyze and compare the muscle potentials of synergistic and antagonistic primary masticatory muscles in three groups of participants (children, adults and geriatric) and two tasks (non speech and speech) using EMG module of the Digital Swallow workstation |
|  | **Investigator(s)** | Dr. R. ManjulaMr. Siddesh, N.S.,Mr. Harish Pai, K.,Mr. Jayakaran G.T. |
|  | **Amount** |  ` 2,28,350 lakhs |
|  | **Status** | Ongoing |
|  | **Achievements in 2010-11** | Preparation of prototype aids is completed and report writing is in progress. |

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| **16** | **Title** | A study of motor control in persons with mild and severe stuttering under conditions of motor stress |
|  | **Objectives** | To analyze and compare the articulatory patterns for bilabial utterances of persons with stuttering and control normal subjects using Articulograph AG 500  |
|  | **Investigator(s)** | Dr. R. Manjula &Dr. H. Venkatagiri |
|  | **Amount** | ` 6,02,000 lakhs |
|  | **Status** | Ongoing |
|  | **Achievements in 2010-11** | Data collection and analysis is in progress. |

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| **17** | **Title** | Development of a “Key word signing” manual in English for Indian context |
|  | **Objectives** | To develop a “Key word signing” manual standardized for the Indian population |
|  | **Principal Investigator & Co-Investigator** | Dr. H. Venkatagiri &Dr. R. Manjula |
|  | **Amount** |  ` 3,70,000 lakhs |
|  | **Status** | Ongoing |
|  | **Achievements in 2010-11** | Data collection and analysis is in progress. |

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| **18** | **Title** | Process evaluation and comparison of the modules of Outreach Service centre’s as a factor of type of volunteers engaged in the activity |
|  | **Objectives** | To compare the feasibility and viability of training women homemakers ( volunteers) and ASHA workers in prevention and identification of communication disorders in the geographical location of three outreach service centres |
|  | **Investigator(s)** | Dr. Vijayalakshmi Basavaraj,Dr. R. Manjula &Dr. H. Sudharshan |
|  | **Amount** |  ` 6,62,000 lakhs |
|  | **Status** | Ongoing |
|  | **Achievements in 2010-11** | Data collection and analysis is in progress. |

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| **19** | **Title** | Screening Test for acquisition of Syntax in Hindi : An Adaption of STASK |
|  | **Objectives** | To develop Screening Test for acquisition of Syntax in Hindi |
|  | **Investigator(s)** | Dr. Vijayalakshmi Basavaraj (Principal Investigator), Dr. S.P.Goswami, (Co-Investigator), Brajesh Priyadarshi (Co-Investigator) |
|  | **Amount** | ` 4.57 lakhs. |
|  | **Status** | Completed |
|  | **Achievements in 2010-11** | Report writing in progress |

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| **20** | **Title** | Computerized Screening Test for acquisition of Syntax in Hindi (STASH): An Adaption of STASK. |
|  | **Objectives** | To develop a module on Computerized Screening Test for acquisition of Syntax in Hindi (STASH |
|  | **Investigator(s)** | Mr. Ajish K. Abraham (Principal Investigator) Dr. Vijayalakshmi Basavaraj (Co-Investigator), Dr. S.P.Goswami, (Co-Investigator), Brajesh Priyadarshi (Co-Investigator). |
|  | **Amount** | ` 5.80 lakhs. |
|  | **Status** | Ongoing |
|  | **Achievements in 2010-11** | Software modalities has been developed |

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| **21** | **Title** | Assessment Battery for Children with Learning Disability (ABCLLD)-Phase II |
|  | **Objectives** | To develop an assessment battery for children with learning disability |
|  | **Investigator(s)** | Dr. Jayashree. C. Shanbal and Dr. S.P. Goswami. |
|  | **Amount** | ` 5.77 lakhs |
|  | **Status** | Ongoing  |
|  | **Achievements in 2010-11** | Test material was developed with the help of SLPs. Schools were surveyed for data collection. The material was administered on a pilot data. The final test material was finalized. The test material was administered on participants from different schools in Mysore. Data coding and analysis is in progress. |

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| **22** | **Title** | Assessment Battery for Children with Learning Disability (ABCLD)-Phase I |
|  | **Objectives** | To develop an screening tool for children with learning disability |
|  | **Investigator(s)** | Dr. Jayashree. C. Shanbal and Dr. S.P. Goswami.  |
|  | **Amount**  | ` 5.71 lakhs |
|  | **Status** | Ongoing  |
|  | **Achievements in 2010-11** | Test material was developed with the help of SLPs. Schools were surveyed for data collection. The material was administered on a pilot data. The final test material was finalized. The test material was administered on participants from different schools in Mysore. Data coding and analysis was done. The report was prepared and submitted for reviewing. The report was reviewed with corrections. |
| **23** | **Title** | Field Testing of Manual of Adult Non- Fluent Therapy-in Kannada |
|  | **Objectives** | To field test Manual of Adult Non- Fluent Therapy-in Kannada |
|  | **Investigator(s)** | Dr. S.P. Goswami and Dr. Jayashree C. Shanbal |
|  | **Amount** | ` 5.71 lakhs |
|  | **Status** | Completed and submitted |
|  | **Achievements in 2010-11** | Manual of Adult Non- Fluent Therapy-in Kannada was field tested on individuals with Aphasia (Broca’s aphasia, TMA and Global aphasia).  |
| **24** | **Title** | Field Testing of Manual of Adult Fluent Therapy-in Kannada |
|  | **Objectives** | To field test Manual of Adult Fluent Therapy-in Kannada |
|  | **Investigator(s)** | Dr. S.P. Goswami and Dr. Jayashree C. Shanbal |
|  | **Amount** | ` 5.77 lakhs |
|  | **Status** | Ongoing  |
|  | **Achievements in 2010-11** | Manual of Adult Fluent Therapy-in Kannada was field tested on individuals with fluent aphasia.  |
| **25** | **Title** | Digital tutorial for pre-reading skill (A supplement to the intervention module for preschool children with communication disorders) |
|  | **Objectives** | i)To develop a digital tutorial on the activities to enhance pre-reading skill as detailed in the intervention module for preschool children with communication disorders.(ii)To evaluate the efficacy of the digital tutorial in training the special educators, speech-language pathologists and caregivers in imparting the pre-reading skill in children with special needs in the age group of 3-6.  |
|  | **Investigator(s)** | Dr. Swapna.N,Dr.K.S. Prem and Dr. Y.V Geetha  |
|  | **Amount** |  ` 5,41,000 |
|  | **Status** | Ongoing |
|  | **Achievements in 2010-11** | Script writing for the pre-reading skill tutorial (phase I and II) consisting of 150 activities has been accomplished and the video recording of these activities is underway |
| **26** | **Title** | Word and Nonword repetition test for children in Kannada |
|  | **Objectives** | To develop a word and a nonword repetition test in Kannada language (along the lines of NRT and PSRep) for children in the age group of 3-6 years.  |
|  | **Investigator(s)** | Dr. Swapna.N  |
|  | **Amount** | ` 3,06,000 |
|  | **Status** | Ongoing |
|  | **Achievements in 2010-11** | Stimuli (words and nonwords) have been prepared and data collection has been carried out. Analysis of the subject’s responses is underway.  |

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| **27** | **Title** | Process Evaluation of DHLS program conducted through Actual Vis-à-vis virtual mode |
|  | **Objectives** | To undertake a process evaluation of DHLS program conducted through virtual mode of instruction at various centers across the country |
|  | **Investigator(s)** | Dr.Vijayalakshmi Basavaraj,Prof. S.Venkatesan andMs.Vasantha Lakshmi M S |
|  | **Amount** | ` 1,96,000  |
|  | **Status** | Ongoing  |
|  | **Achievements in 2010-11** | Report prepared for the year 2009-10 and 2010-11 data collected  |

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| **28** | **Title** | Adaptation and standardization of Cognitive Linguistic Quick Test in Kannada (CLQT-K): Comparison between monolinguals (Kannada) and bilinguals(Kannada-English) |
|  | **Objectives** | To adapt and standardize CLQT into Kannada |
|  | **Investigator(s)** | Dr.Vandana.V.P and Prof.Shyamala.K.C  |
|  | **Amount** | ` 3.4 lakhs |
|  | **Status** | Ongoing |
|  | **Achievements in 2010-11** | Data collection completed, statistical analysis in progress, introduction first draft corrected |

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| **29** | **Title** | Screening Test for Acquisition of Syntax in Telugu (STAS-T): An Adaption of STASK  |
|  | **Objectives** | To develop a valid and standardized test for the assessment of syntax in Telugu language |
|  | **Investigator(s)** | Mr.P. Gopi Kishore, Dr. S.P. Goswami and Dr. Vijaya Lakshmi Basavaraj |
|  | **Amount** | ` 3,01,000/- |
|  | **Status** | Ongoing |
|  | **Achievements in 2010-11** | Stimulus material was prepared and the same was tested for the content validity.Conducted pilot study on 40 subjects and minor changes were made to the stimulus.Reviewed related literature. |

**DEPARTMENT OF SPEECH-LANGUAGE SCIENCES**

**Research Activities**

1. **Research Projects**

**A.1 Projects with Extramural Funding**

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| **1** | **Title** | Development of speech Rhythm in Kannada speaking children |
|  | **Objectives** | To investigate the development of speech rhythm in Kannada speaking children |
|  | **Investigator(s)** | Dr. S.R.Savithri (PI) Dr. N. Sreedevi (CI) |
|  | **Funding Agency** | Dept. of Science and Technology, Ministry of Science and Technology, New Delhi |
|  | **Amount** | ` 19,44,360.00 |
|  | **Status** | Ongoing - analyzed recorded speech samples of 80 children  |
|  | **Achievements in 2010-11** | Data collection is completed for 270 children in the age range to 3-13yrs. Each age group consisted of 30 children (15 males and 15 females) with one year interval. A total of 80 samples (30 samples from 3-4 years; 25 samples from 11-12years; 20 samples from 12-13 years; 5 samples from 4-5 years) were analyzed by measuring vocalic and intervocalic intervals. PVI (rPVI and nPVI) values were calculated. Results of 30 children in age range of 3-4yrs indicated stress timed rhythm; whereas, 11-12year and 12-13 year old children resembled more adult like and rhythm could be classified as mora timed.  |

**A.2 Projects with ARF Funding**

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| **1** | **Title** | Development of Consumer Satisfaction Inventory |
|  | **Objectives** | The objective of the project was to develop an inventory to assess the satisfaction of clients seeking rehabilitation services at AIISH and to evaluate the same on the clients receiving diagnostic, therapeutic and preschool services |
|  | **Investigator(s)** |  Dr. Y.V. Geetha Dr. N. Swapna Dr. P. ManjulaDr. N. Sreedevi  |
|  | **Fund** | ` 2.00 lakhs |
|  | **Status** | Completed |
|  | **Achievements in 2010-11** | Submitted the project report |

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| **2** | **Title** | Development of intervention modules for preschool children with communication disorders – Phase I |
|  | **Objectives** | The main objective is to prepare modules for intervention for 10 skills (Sensory, motor, speech, language, social, cognition, pre-reading. writing, arithmetic and play) in preschool children in the age range of 0-3 years |
|  | **Investigator(s)** | Dr. N. Swapna Dr. K.S. PremaDr. Y.V. Geetha Dr. M. Jayaram |
|  | **Amount** | ` 2.00 lakhs |
|  | **Status** | Completed |
|  | **Achievements in 2010-11** | Submitted the project report |

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| --- | --- | --- |
| **3** | **Title** | Development of intervention modules for preschool children with communication disorders – Phase II |
|  | **Objectives** | The main objective is to prepare modules for intervention for 10 skills (Sensory, motor, speech, language, social, cognition, pre-reading. writing, arithmetic and play) in preschool children in the age range of 3- 6 years |
|  | **Investigator(s)** | Dr. N. Swapna Dr. K.S. PremaDr. Y.V. Geetha Dr. M. Jayaram |
|  | **Amount** | ` 2.00 lakhs |
|  | **Status** | Completed |
|  | **Achievements in 2010-11** | Submitted the project report |

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| --- | --- | --- |
| **4** | **Title** | Prevalence and nature of epilepsy in children with communication disorders |
|  | **Objectives** | To determine the prevalence of seizures in different subgroups of children with communication disorders,to determine the age of onset, causes, type of seizure, frequency of occurrence of seizures,to identify the pattern of inheritance if any,to classify the seizure disorders causing communication disorders and to determine the co-morbidity of seizures and the nature of communication disorder  |
|  | **Investigator(s)** | Ms. Sangeetha M Dr. Y.V. Geetha  |
|  | **Amount** | ` 1.28 lakhs |
|  | **Status** | Completed |
|  | **Achievements in 2010-11** | Submitted the project report |

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| --- | --- | --- |
| **5** | **Title** | Development of Test for Assessment of Bilingual Proficiency through Lexical Priming Task |
|  | **Objectives** | To develop a Language Proficiency test for Kannada -English Bilingual adults on the principle of primed LDT,to compare the performance of primed lexical decision in each of the Languages of the Bilinguals (Kannada -English),to compare performance of participants on self assessment questionnaire and primed LDT and to develop a yardstick for quick and objective online measurement of language proficiency. |
|  | **Investigator(s)** | Dr. K.S. Prema  |
|  | **Amount** | `. 2, 58, 000/- |
|  | **Status** | Completed |
|  | **Achievements in 2010-11** | Project report completed. Test is digitized for online accessibility |

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| --- | --- | --- |
| **6** | **Title** | Phonological Sensitivity Training Kit (PhoST-K) in Kannada |
|  | **Objectives** | To develop a Language Proficiency test for Kannada -English Bilingual adults on the principle of primed LDT,to compare the performance of primed lexical decision in each of the Languages of the Bilinguals (Kannada -English),to compare performance of participants on self assessment questionnaire and primed LDT and to develop a yardstick for quick and objective online measurement of language proficiency. |
|  | **Investigator(s)** | Dr. K.S. Prema (PI) |
|  | **Amount** | `. 4, 64, 000/- |
|  | **Status** | Completed |
|  | **Achievements in 2010-11** | Project report completed. PhoST Manual, CD and reference values are available for users. |

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| **7** | **Title** | Patterns of recovery in CWS |
|  | **Objectives** | The objectives of the project are to determine with reasonable accuracy the proportion of children who persist in stuttering and those who recovery of their own accord (spontaneous recovery) and to determine the treatment related factors contributing to recovery in CWS and isolating factors that govern or influence persistency and remission |
|  | **Investigator(s)** | Dr. Y.V. GeethaMs. Sangeetha Mahesh |
|  | **Amount** | `4.71 lakhs |
|  | **Status** | ongoing |
|  | **Achievements in 2010-11** | Appointed new project staff and continued data collection, analysis and writing report. |

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| --- | --- | --- |
| **8** | **Title** | Variables contributing to Relapses in Individuals With Stuttering |
|  | **Objectives** | To identify the proportion of children and adult PWS who exhibit relapses,to identify the nature of such relapses such as whether it is complete or partial, probable duration after which relapses occur and to identify the factors contributing to relapses in the management of PWS.  |
|  | **Investigator(s)** | Dr. Y.V. Geetha Ms. Sangeetha Mahesh Mr. Sachin L.C.  |
|  | **Amount** | `4.71 lakhs |
|  | **Status** | ongoing |
|  | **Achievements in 2010-11** | Appointed new project staff and continued data collection, analysis and writing report |

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| --- | --- | --- |
| **9** | **Title** | Treatment efficacy with Response Cost for CWS |
|  | **Objectives** | To determine the effectiveness of response cost method and its long term effects in subgroups of children with stuttering, and to determine the possible client related variables influencing stuttering therapy outcome. |
|  | **Investigator(s)** | Ms. Sangeetha Mahesh,Dr. Y.V. Geetha  |
|  | **Amount** | `4.44 lakhs |
|  | **Status** | ongoing |
|  | **Achievements in 2010-11** | Appointed new project staff and continued data collection, analysis and writing report |

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| --- | --- | --- |
| **10** | **Title** | Development & Evaluation of curriculum for speech-language transcription |
|  | **Objectives** | To develop a Language Proficiency test for Kannada -English Bilingual adults on the principle of primed LDT,to compare the performance of primed lexical decision in each of the Languages of the Bilinguals (Kannada -English),to compare performance of participants on self assessment questionnaire and primed LDT and to develop a yardstick for quick and objective online measurement of language proficiency. |
|  | **Investigator(s)** | Dr. K.S. Prema ,Dr. Peribhaskar Rao, University of Tokyo, Japan |
|  | **Amount** | `. 3, 94, 000/- |
|  | **Status** | Project work completed |
|  | **Achievements in 2010-11** | Project report completed. But, study manuals are edited. Training program with the proposed curriculum to be initiated. |
| **11** | **Title** | Digital tutorial for pre reading skill training. (A supplement to the intervention module for preschool children with communication disorders.) |
|  | **Objectives** | To develop a video tutorial as a supplement to the manual to enhance pre-reading skills and to evaluate the efficacy of the digital tutorial in training the special educators, SLP‘s and Parents/Caregivers in pre reading skills for children with special needs. |
|  | **Investigator(s)** | Dr. N.Swapna & Prof. K.S. Prema Prof. Y.V.Geetha  |
|  | **Amount** | `. 5,41,000 /- |
|  | **Status** | Ongoing |
|  | **Achievements in 2010-11** | Reviewed literature on Script writing and making of educational videos and prepared the script for 150 activities in the manual. Agency was Identified and finalized the formalities for video recording and 50% of the video recording of the activities has been completed. |

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| **12** | **Title** | Development of a test for Assessment of Bilingual Proficiency through Lexical Priming task (for Hindi - English Bilingual adults) |
|  | **Objectives** | To develop a Language Proficiency test for Hindi-English Bilingual adults on the principle of primed LDT,to compare the performance of primed lexical decision in each of the Languages of the Bilinguals (Hindi-English), to assess if the nature of words (concrete vs. abstract) plays a role in defining proficiency, if they are employed in LDT, to compare performance of SLP and Non SLP’s on LDT task and to develop a yardstick for quick and objective measurement of language proficiency. |
|  | **Investigator(s)** | Dr. K.S. Prema  |
|  | **Amount** | `. 5, 94, 000/- |
|  | **Status** | On going |
|  | **Achievements in 2010-11** | Collection of abstract and concrete words in Hindi, English and Kannada to develop prime and target stimuli for the study. All the words were subjected to verification by experts for familiarity, abstractness and concreteness. The words were programmed using DMDX software. Pilot study was done on 6 adults after which data was collected on 42 participants. Partial analysis of the data was done. In addition, prepared a revised version of Language History Questionnaire (LHQ) suitable for Indian population. Related review of literature was also collected through Journal articles, online resources and Dissertations. |

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| **13** | **Title** | Development and Evaluation of Center-based Service Delivery Model for children with Learning Disability- PHASE I |
|  | **Objectives** | Development/compilation of text/audio/ video/digital resources:to create public awareness on LD amongst different groups in the society including parents, teachers, medical practitioners, school administrations, NGOs, etc.,Training policy makers, heads of schools, special educators and regular teachers on the significance of imparting specialized training in classroom set-up for children at-risk/or those identified as having learning disability,compilation of Tests and tools for early identification through screening and diagnostic procedures (including identification of subtypes of children with LD) and to finalize the resources for center-based service delivery on the principles of RTI for children with LD. |
|  | **Investigator(s)** | Prof. K.S. Prema Dr.Jayashree. C. Shanbal  |
|  | **Amount** | `. 5, 50,000-00 |
|  | **Status** | Compilation of existing assessment materials used for children with Learning Disability along with review supporting the study. |
|  | **Achievements in 2010-11** | Collected protocols/ screening tests/ diagnostic tests/ online assessment materials/ softwares available for the assessment/early identification of children with Learning disability by SLPs, School teachers and parents/caregivers. Assessment materials are collected from various sources i.e. Departmental projects, Independent projects, Dissertations, Thesis, Tests available in the Institute at various departments (Clinical Services, Speech-Language Pathology, Psychology and Audiology) and Internet. Compilation of each test in a uniform format is in progress. In addition, review materials from journal articles, books and web sources in support to the present study are also being compiled. |
| **14** | **Title** | Effects of Semantic and Syntactic Treatments in Bilingual Stroke Survivors |
|  | **Objectives** | To Study the influence and effectiveness of cognitive linguistic model – based syntactic and semantic treatments in Kannada-English bilinguals and to establish normative data on some linguistic parameters in the realm of semantics and syntax |
|  | **Investigator(s)** | Dr. G. N. Rangamani and Dr K. S. Prema  |
|  | **Amount** | `. 5,94,000 |
|  | **Status** | On-going |
|  | **Achievements in 2010-11** | Detailed assessment of 15 stroke survivors has been made. Out of the 15 participants, 3 were evaluated in detail for linguistic deficits. Further, out of the remaining 12, 3 participants were treated for 2 months each using cognitive-linguistic based treatment approaches. Since considerable gain was documented in their progress, they were discharged. Further, 8 stroke survivors were treated using various semantic and syntactic treatment approaches. All 15 participants who have been recruited for cognitive-linguistic therapy have been very motivated and have shown various levels of improvements and some are continuing to show gains. Planned, developed and implemented one group therapy session for both stroke survivors and their care-givers. Translated and /or converted into Kannada/Hindi some of the items of tests such as the VAST, ANT and PALPA wherever found necessary. Family members are encouraged to associate with the program in order to continue to help the stroke survivors after discharge from the services.  |

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| **15** | **Title** | Computerized Analysis of phonological processes in Malayalam (CAPP-M) |
|  | **Objectives** | To develop an indigenous computer based software to assess the phonological processes in native Malayalam speaking children |
|  | **Investigator(s)** | Dr. N Sreedevi |
|  | **Amount** | `. 4,81,000/- |
|  | **Status** | On going |
|  | **Achievements in 2010-11** | Data collection and Data Transcription was completed. Data analysis and Review in progress |
| **16** | **Title** | The phonetic characteristics of babbling in Kannada |
|  | **Objectives** | To study the development of babbling longitudinally in infants  |
|  | **Investigator(s)** | Dr. N Sreedevi  |
|  | **Amount** | `. 3,80,000/- |
|  | **Status** | On going |
|  | **Achievements in 2010-11** | Data collection and review ongoing. Editing and analysis of 4 infants completed. |
| **17** | **Title** | Efficacy of multidisciplinary preparatory services of AIISH in mainstreaming children with communication disorders |
|  | **Objectives** | To survey the impact of multidisciplinary early intervention services offered at AIISH  |
|  | **Investigator(s)** | Dr. Vijayalakshmi Basavaraj Dr. N Sreedevi & Mr. C. B. Suresh  |
|  | **Amount** | `. 3,32,000/- |
|  | **Status** | On going |
|  | **Achievements in 2010-11** | Data collection completed. Data entry and Review in progress |
| **18** | **Title** | Effect of palatal obturator on speech |
|  | **Objectives** | To understand the acoustic and perceptual effects of palatal obturator in cleft palate individuals |
|  | **Investigator(s)** | Dr. M. Pushpavathi and Dr. N Sreedevi  |
|  | **Amount** | `. 4,98,000/- |
|  | **Status** | On going |
|  | **Achievements in 2010-11** | Data collection completed. Data analysis and review in progress |

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| --- | --- | --- |
| **19** | **Title** | Measurements of vocal doses using ambulatory phonation monitor (APM) in primary school teachers |
|  | **Objectives** | To measure and document the three vocal doses. The objectives of the project are to measure (a) time dose, (b) cycle dose and (c) distance dose for daily and weekly vocalization of primary school teachers |
|  | **Investigator(s)** | Mr. R. Rajasudhakar and Mr. L. C. Sachin  |
|  | **Amount** | `. 3, 23, 000 |
|  | **Status** | On-going |
|  | **Achievements in 2010-11** |  A pilot study was conducted by recording the speech sample in the field settings of lecturers, and special educators to comprehend the utility of the device (APM) and problems encountered. A scientific research article was prepared and presented in International Symposium on Frontiers of Research on Speech and Music (FRSM-2011). |

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| **20** | **Title** | Neuro-physiology correlates of voice onset time in Kannada and Tamil speaking individual using N1 evoked potential |
|  | **Objectives** |  The behavioral response for VOT continuum in native Kannada and Tamil speakers, the neuro-physiological changes for VOT continuum in native Kannada and Tamil speakers, the existence and the reliability of double peak (morphological change in N1) with the change in stimulus property, the behavioral and neuro-physiological response differences in two Dravidian languages (Kannada\* and Tamil$), and the neuro-physiological changes for non-speech stimuli that mimic the speech stimuli.  |
|  | **Investigator(s)** | Mr. Jayakumar T and Dr. Vijaya Kumar Narne  |
|  | **Amount** | ` 3,23,000 |
|  | **Status** | ongoing |
|  | **Achievements in 2010-11** | Review work and data collection is in progress |
| **21** | **Title** | Auditory processing in person with stuttering: using non-linguistic and linguistic stimulus |
|  | **Objectives** | To investigate the degree of auditory processing ability in AWS with complex non-linguistic speech like stimulus and simple speech stimulus |
|  | **Investigator(s)** | Jayakumar T , Dr. Geetha Y V and Dr. Vijaya Kumar Narne  |
|  | **Amount** | ` 3,23,000 |
|  | **Status** | ongoing |
|  | **Achievements in 2010-11** | Review work and data collection is in progress |

**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 Ph. D. students were awarded doctoral degree - 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.

1. **Doctoral Research**

The details of doctoral research carried out in the department during the reporting year are given in Table 9.

 Table 9: Doctoral Research

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| --- | --- | --- | --- | --- |
| **Sl.****No.** | **Candidate** | **Topic** | **Guide** | **Status** |
| 01 | Ms. N Devi.  | Auditory evoked potential correlation of speech and music in musicians and non-musicians. | Dr. Vijayalakshmi Basavaraj (Till 18.03.11) | Ongoing |
| 02 | Mr. Sujeet Kumar Sinha.  | Brainstem encoding of speech sounds in the aging auditory system : An electrphysiological study. | Dr. Vijayalakshmi Basavaraj.(Till 18.03.11) | Ongoing |
| 03 | Mr. M.K Ganapathy.  | Effect of age and noise on acoustic change complex : An electrophysiological study. | Dr. Vijayalakshmi Basavaraj.(Till 18.03.11) | Ongoing |
| 04 | Mr. Prawin Kumar.  | Computer-assisted listening training program for individuals with hearing impairment. | Dr. Asha Yathiraj. | Ongoing |
| 05 | Mr. P.M. Jijo. | The effect of enhancement of amplitude and durational cues on speech perception in individuals with auditory neuropathy spectrum disorders. | Dr. Asha Yathiraj. | Ongoing |
| 06 | Ms. Roshni Pillai. | Auditory, visual and auditory-visual processing in children with learning disability. | Dr. Asha Yathiraj. | Ongoing |
| 07 | Mr. N. Hemanth. | The Effect of amplification on objective measure at brainstem and cortical level and behavioral measure in individuals with peripheral hearing impairment. | Dr. Manjula P. | Ongoing |
| 08 | Ms. C Geetha.  | Optimization of compression parameters in hearing aids using Aided Audibility Index. | Dr. Manjula P. | Ongoing |
| 09 | Mr. KS Sharath Kumar.  | Effect of noise reduction algorithms (NRA) in hearing aids on acoustic and perceptual measures. | Dr. Manjula P. | Ongoing |
| 10 | Mr. MP Reuben Jebaraj.  | Influence of various hearing aid fitting strategies on speech recognition in individuals with sloping hearing loss.  | Dr. Manjula P. | Ongoing |
| 11 | Mr. Ranganath. | Development of a test tool for assessment of memory (working memory) in children. | Dr. Rajalakshmi K. | Ongoing |
| 12 | Ms. J Delcy Janet.  | 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. | Ongoing |

Table 23: Doctoral Research.

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| --- | --- | --- | --- |
| **Sl.No** | **Title** | **Candidate** | **Guide** |
| 1 | Linguistic variability in Mono lingual and bilingual children with stuttering. | Ms.Sangeetha Mahesh. | Dr.Y.V.Geetha |
| 2 | Some Acoustic and perceptual parameters in Cleft Palate Speech: A Pre-post operative condition. | Mr.Gopi Sankar. | Dr.M.Pushpavathi |
| 3 | A comparative study on content and processes of Semantic memory in Malayalam Speaking persons with Dementia & Aphasia. | Ms.Preethi T. | Dr. S.P. Goswami |
| 4 | Test battery for Phonological Representations in Kannada Speaking Children. | Ms. Priya M.B. | Dr. R.Manjula |
| 5 | Development and Standardization of comprehension test in Hindi Language for Persons with Aphasia. | Mr. Santhosh Kumar. | Dr. S.P. Goswami |
| 6 | Computerized Auditory Visual Integration Training for Communication in persons with Aphasia- In Tamil (CAVICAT). | Mr. Radhakrishnan. | Dr. S.P. Goswami |
| 7 | Variables Influencing Language Outcomes in Children with Cochlear Implants in Indian Context.  | Ms. Mani Bansal. | Dr. S.P. Goswami |
| 8 | Semantic Judgment in Monolingual & Bilingual persons with Broca’s Aphasia: An ERP study.  | Mr. L. Sampath Kumar. | Dr. S.P. Goswami |

Table 45: Doctoral Research.

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| --- | --- | --- | --- | --- |
| **Sl.****No** |  **Student** |  **Title**  |  **Guide**  |  **Status** |
| 1 | Preeja Balan | Mother-child interaction: Communication in children with cerebral palsy using AAC | Dr. R. Manjula | DegreeAwarded |
| 2 | Shilpashri H.N. | Development of Pragmatic Skills in Autism Spectrum Disorders | Dr. K.C. Shyamala | Thesis submitted |
| 3 | VasanthaLakshmi M S  | Limit theorems for sums, extremes and related stochastic processes | Dr. R. Vasudeva | Thesis submitted |
| 4 | Deepa M.S | Discourse in Bilingual individuals with Demantia and Aphasia | Dr. K.C. Shyamala | Ongoing |
| 5 | Ms. Hema. N | Discourse Analysis in Bilingual Aphasic & Non Aphasic TBI | Dr. K.C. Shyamala | Ongoing |
| 6 | Ms.Namrata Rai | Language Assessment In Toddlers and Late Talkers/SLI | Dr. K.C. Shyamala | Ongoing |
| 7 | Ms.Sunitha Sendil | Intervention In Autism Spectrum Disorders | Dr. K.C. Shyamala | Ongoing |
| 8 | Ms. Maria Grace Teresa | Emergence of expressive Morphology in Malayalam speaking children with & without ASD. | Dr. K.C. Shyamala | Ongoing |
| 9 | Mr. Sunil Kumar. R | An even related brain potentials study of language processing of Kannada-English Bilingual Aphasia | Dr. K.C. Shyamala | Ongoing |
| 10 | Mr. Santosh Kumar | Development and standardization of comprehension test in Hindi language for persons with Aphasia | Dr. S.P. Goswami | Ongoing |
| 11 | Mr. Sampath Kumar Lagishetty | Semantic judgment in Monolingual and Bilingual persons with Brocas Aphasia – An ERP Study | Dr. S.P. Goswami | Ongoing |
| 12 | Mr. Gopi Sankar | Some acoustical and perceptual parameters of cleft palate speech : Pre - post surgery | Dr. M.Pushpavathi | Ongoing |
| 13 | Mr. Gopi Kishore. P | Efficacy of Eclectic Voice Program in the treatment of Hyperfunctional Voice Disorders | Dr. M.Pushpavathi | Ongoing |
| 14 | Mr. Gnanavel.K | Speech Characteristics in Velopharyngeal dysfunctions – Pre-Post Surgery | Dr. M.Pushpavathi | Ongoing |
| 15 | Mrs. Mili Mary Mathew  | Development of gesture and speech in typically developing infants | Prof. R. Manjula | Ongoing |
| 16 | Mrs. M.B.Priya | Test Battery for Assessment of Phonological representations in Kannada Speaking Children | Prof. R. Manjula | Ongoing |

**B.Post-doctoral Research**

 One postdoctoral program is going on in the department as given in table 54.

 Table 54: Post Doctoral Research.

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| --- | --- | --- | --- |
| **Candidate**  | **Topic**  | **Guide**  | **Status** |
| Dr. Mahalakshmi Prasad  | Development of spoken Language Lexical corpora in Kannada | Dr. K.S. Prema | Ongoing |

**C.Doctoral Research**

The details of doctoral level research programs carried out in the department are given in **t**able 55.

 Table 55: Doctoral Research.

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| --- | --- | --- | --- | --- |
| **S.No.** | **Candidate**  | **Topic**  | **Guide**  | **Status** |
| 1 | Ms. Powlin Arockia Catherine S. | Effect of temporal and spectral variations on phoneme identification skills in late talking children | Dr. S.R. Savithri | DegreeAwarded |
| 2 | Ms. Yeshoda K. | Importance of some spectral and temporal parameters in speaker identification.  | Dr. M. Jayaram | ThesisSubmitted |
| 3 | Ms. Jayashree Shanbal | Acquisition of biliteracy in children | Dr. K.S. Prema | Viva-Voce conducted |
| 4 | Ms. Anjana. B. Ram | Disfluencies in 2.1-6 year old Kannada speaking children | Dr. S.R. Savithri | Ongoing |
| 5 | Mr. Jayakumar T | Voice characteristics in monozygotic twins | Dr. S.R. Savithri | Ongoing |
| 6 | Mr. Rajasudhakar R. | Voicing periods in daily and weekly speech in primary school teachers: Occupational voice measurements (time dose) | Dr. S.R. Savithri | Ongoing |
| 7 | Ms. Sangeetha Mahesh | Linguistic analysis of bilingual CWS | Dr. Y.V. Geetha | Ongoing |
| 8 | Ms. Sarika Khurana | Development of Emergent literacy in Kannada speaking English Language learners | Dr. K.S. Prema | Ongoing |
| 9 | Mr. Kuppuraj.K | Procedural memory deficit in specific language impairment : An exploratory study | Dr.K.S.Prema | Ongoing |
| 10 | Mr. Abhishek | Lexical semantic processing in persons with bilingual aphasia | Dr. K.S. Prema | Ongoing |
| 11 | Ms. Prarthana. S | Mental lexicon of nouns and verbs in Adult Speakers of Kannada | Dr. K.S. Prema | Ongoing |
| 12 | Ms. Pravesh Arya | Speech and Non Speech Characteristics of recovered and relaxed PWS following treatment | Dr. Y.V. Geetha | Ongoing |

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

**International Conference/Seminar/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 C*oming of Age: Dementia in 21st century.* University of Stirling, London, 19-24 October 2010.
2. Manjula P. *Audiological profile in individuals with cochlear nerve hypoplasia.* 1st International workshop on CI. Maulana Azad Medical College, New Delhi, 3 April 2010.
3. Swapna N & 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.
4. Gopi Kishore P, Remya H Y, Ranjini G.C, & Kanthima V Namboothiri. *Efficacy of voice therapy in sulcus vocalis: A single case study.* Joint International Symposium on Frontiers of Research on Speech and Music and Computer Music Modelling and Retrieval (FRSM/CMMR). Bhuvaneshwar, 9-12 March 2011.
5. 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, 9-12 March 2011.
6. 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, 9-12 March 2011.
7. Rajasudhakar R, Sachin L. C & Somy E Sam. *Measurement of time dose in different professions.* Joint International Symposium on Frontiers of Research on Speech and Music and Computer Music Modelling and Retrieval (FRSM/CMMR). Bhuvaneshwar, 9-12 March 2011.
8. Savithri S.R, Sreedevi N, Aparna V.S & Deepa Anand. *Effect of gender on speech rhythm in 3-4 year old Kannada speaking children.* Joint International Symposium on Frontiers of Research on Speech and Music and Computer Music Modelling and Retrieval (FRSM/CMMR). Bhuvaneshwar, 9-12 March 2011.
9. Savithri, S.R, Sreedevi N, Aparna V.S & Deepa Anand. *Speech rhythm in 11-12 years old Kannada speaking children.* Joint International Symposium on Frontiers of Research on Speech and Music and Computer Music Modelling and Retrieval (FRSM/CMMR). Bhuvaneshwar, 9-12 March 2011.
10. Sreedevi N, Aparna V.S & 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, 9-12 March 2011.
11. Sreedevi N, Reuben T. V & 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, 9-12 March 2011.
12. 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. All India Institute of Speech & Hearing, Mysore, 16-17 December 2010.
3. Animesh Barman. *Vestibular pathways related to VEMP*. National Symposium on Evaluation and Management of Vestibular Problems. All India Institute of Speech & Hearing, Mysore, 29-30 January 2011.
4. Aswathy A.K. *Hearing impairment and agrammatism.* National Seminar on *Language Acquisition or Learning*. 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 *Newborn 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, 22October 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 , 11 January 2011.
8. Chandni Jain. *Hearing assessment in paediatric population using subjective measures*. National Seminar on Paediatric Hearing: Assessment and Rehabilitation. All India Institute of Speech & Hearing, Mysore, 16-17 December 2010.
9. 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.
10. Geetha C. *Paediatric hearing aid fitting : Selection and verification.* National Seminar on Paediatric Hearing: Assessment and Rehabilitation. All India Institute of Speech & Hearing, Mysore, 16-17 December 2010.
11. 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.
12. 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.
13. Hasna Fathima. *Phonological activation during visual word recognition in deaf signers and hearing adults.* National Seminar on *Language Acquisition or Learning*. University of Kerala, Trivandrum, 3-4 February, 2011.
14. 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.
15. 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*. University of Kerala, Trivandrum, 3-4 February 2011.
16. 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.
17. 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.
18. Manjula P. *Cochlear implant programming*. National Seminar on Paediatric Hearing: Assessment and Rehabilitation. All India Institute of Speech & Hearing, Mysore, 16-17 December 2010.
19. Nandeesha, B. *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.
20. Niraj Kumar Singh. *Objective hearing assessment in pediatric population.* National Seminar on Paediatric Hearing: Assessment and Rehabilitation. All India Institute of Speech & Hearing, 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. All India Institute of Speech & Hearing,Mysore, 29-30 January 2011.
22. Prawin Kumar. *Issues on management of children with APD.*National Seminar on Paediatric Hearing: Assessment and Rehabilitation. All India Institute of Speech & Hearing, 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. AII India Institute of Medical Sciences, NewDelhi ,24April,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.* All India Institute of Speech & Hearing, 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. All India Institute of Speech & Hearing, 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, 25-27 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, 4- 6 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 John. Phonological processes in 3-3.6 years typically developing malayalam speaking children. National Seminar on *Language Acquisition or Learning*. 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. All India Institute of Speech & Hearing, Mysore, 16-17 December 2010.
36. Sujeet Kumar Sinha. *Clinical applications of VEMP*. National Symposium on Evaluation and Management of Vestibular Problems. All India Institute of Speech & Hearing, 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 l*earning disability: the continuing challenge.* National Seminar on *Learning Disability; Approaches, Challenges and Provisions.* Lady Doak College, Madurai , 29-30 November 2010.
39. Venkatesan S. *Counselling Issues.* National Seminar on *Multi-disciplinary Approaches to Disability Management.* Ramakrishna Mission Vivekananda University, Kovai, 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. All India Institute of Speech & Hearing, 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**

Faculty members and staff publish their research works in national, international and online journals. Seven articles were published in international, 45 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, V.23 (9).
4. Manjula R & Rupela V. (2010). *Diadochokinetic assessment in persons with Down Syndrome*. Asia pacific Journal of Speech Language and Hearing, V 13 (2).
5. Manjula R, Rupela V & Velleman S.L. (2010). *Phonological processes in Kannada speaking adolescents with Down’s Syndrome.* Clinical Linguistics & Phonetics, V.24(6).
6. Shyamala K.C, Vishnu K.K, Arya Abraham & Sapna Bhat (2010). *Fast mMapping of novel words: A cross-linguistic study.* International Journal of Mind, Brain & Cognition, V.1(1).
7. Venkatesan S. (2010). *Case study on cost benefit analysis for government sponsored pension scheme for persons with mental retardation*. Asian Journal of Developmental Matters, V.4(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 & 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 & 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 & 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 A.K (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 & 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, V.24 (2).
17. Kumari Apeksha & Devi N (2010). *Effect of sensorineural hearing 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 & Siddque S.V (2010). *Long-term vihangam yoga meditation and scores on tests of attention* Perceptual and Motor Skills, V.110(3).
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 & 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 & 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. 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).
35. 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).
36. 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).
37. 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) .
38. Venkatesan S (2010). *Cultural factors in clinical assessment: The Indian perspective*. Indian Journal of Clinical Psychology, 37(1).
39. Venkatesan S (2010). *Indian scales and inventories: revisiting clinimetry through IJP*. Indian Journal of Psychiatry, 52 (Supplement).
40. Venkatesan S & Purusotham P (2010). *Validation of item pool on number competencies in preschool and primary school children*. Disabilities & Impairments, V.24(1).
41. Venkatesan S & Ravindranath A. (2011). *Depression in institutionalized and non-institutionalized elderly*. Journal of Indian Academy of Applied Psychology, V.37(1).
42. Venkatesan S, Pushpavathi M, & Purusotham P. (2010). *Adjustment patterns in voice disorders*. Journal of Indian Association of Speech and Hearing, V.25(1).
43. 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, V. 29(2).
44. 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).
45. 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*. Languages in India. V.10(11).

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

5. Sreedevi N, Rhea M. K. & Prasad J (2010). *Speech and language characteristics of monozygotic twins : A case study*. Languages 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*. Languages 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, 16 books/book chapters were written by the faculty as follows:

1. Basavaraj V, Rangasayee R and others (2010). Chapter titled H*earing Impairment* in the book *Status of Disability in India – 2007* . Published by Rehabilitation Council of India, New Delhi.
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 - A 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 - A 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 - A 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 -A 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 :A 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). *Auditory training and its importance and auditory verbal therapy*. In *Perception through hearing aids, auditory training and evaluation of hearing aids.* Self-Learning material for the course titled *Aural Rehabilitation of Children with Hearing Impairment’*, for M.Ed. (SE-DE) (HI). Published by IGNOU, New Delhi.
12. Yathiraj A (2010). *Perception through auditory modality & basic acoustic properties of speech and its effect on hearing aids*. Self-Learning material for the course titled *Aural Rehabilitation of Children with Hearing Impairment*, for M.Ed. (SE-DE) (HI). Published by IGNOU, New Delhi.
13. Yathiraj A (2010). *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). Published by IGNOU, New Delhi.
14. Yathiraj A (2010). *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). Published by IGNOU, New Delhi.
15. Yathiraj A (2010). *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). Published by IGNOU, New Delhi.
16. Yathiraj A (2010). *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). Published by IGNOU, New Delhi.

**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 in table 7.

Table 7: Editorial/Compilation Work.

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| **Name** | **Journal / book** |
| Dr. Basavaraj, V | Journal of All India Institute of Speech and Hearing |
| Dr. Basavaraj, V | *Student research at AIISH*, *2009-10* |
| Dr. D. Malar | Compiler for Special Education dissertation articles for *Student research at AIISH*, *2009-10* |
| Dr. Manjula P | Journal of All India Institute of Speech and Hearing |
| Dr. 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, 2009-10* |
| 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 |
| Dr. Shyamala K.C | Asia Pacific Journal of Speech, language and Hearing |
| Dr. Shyamala K.C | Journal of Neurolinguistics |
| 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 |
| Dr. N. Swapna | Compiler for Speech – Language Pathology dissertation articles for *Student Research at AIISH, 2009-10* |
| Dr. Yathiraj, A | Journal of All India Institute of Speech and Hearing |
| Dr. Yathiraj, A | Block 1: Hearing and auditory processesBlock 3: Language;Block 4: The speech process and components of speech &Block 5: Speech teaching of Aural rehabilitation of children with hearing impairment. Self learning material published by IGNOU |

**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. 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. Shyamala K.C**

Asia Pacific Journal of Speech Language and Hearing

Journal of Neurolinguistics

Annals of Neurology India

Languages in India

Journal of Indian Speech and Hearing Association

Journal of All India Institute of Speech and Hearing.

**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 Institute 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.

Reviewed the book titled *Portage guide to early childhood education/ Indumathi Rao.* Published by CBR Network (South Asia) in *Journal of All India Institute of Speech and Hearing* V.29 (1), 2010.

**Dr. Yathiraj, A**

Journal of Indian Speech Language and Hearing Association

**IX. Institute Journal Publication**

The institute has been publishing a national journal titled ‘Journal of All India Institute of Speech and Hearing’ (JAIISH) pertaining to the areas of speech, language and hearing. JAIISH is published biannually in both print and electronic formats. Issue no. 1 and 2 of Volume 29 of the journal were published during the reporting year.

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Clinical Services

The institute offers a wide variety of clinical services to persons with communication disorders in the country. Clinical activities of the Institute can be broadly categorized as: (a) General Clinical Services (b) Specialized Clinical Services (c) Clinical Outreach Services (d) Clinical Electronic Services and (e) Clinical Support Services.

**I. General Clinical Services**

The general clinical services in the Institute are provided under the aegis of the department of Clinical Services. Highly skilled clinical practitioners of the departments of Audiology, Clinical Services, Speech - Language Pathology, Speech - Language Sciences along with allied professionals at the departments of Otorhinolaryngology and Clinical Psychology have been delivering quality outpatient services. Apart from them, the Department of Clinical Services also offers specialized clinical care of a range of medical and allied health fields to the patients who are referred by the OPD’s of Audiology and Speech – Language Pathology.

Hundreds of patients visit the institute daily. In the reporting year, a total of 50560 clients registered for availing the clinical services at the institute. This includes 19,607 new and 30953 repeat cases. Figure 2 shows the number of patients registered in the past 3 years. There is an increase in the number of patients registered at the institute in the current year.

Figure 1: Patients Registered in 3 Years.



**Speech and Language Assessment and Rehabilitation:** During the year under review, a total of 6940 registered clients were evaluated at Speech and Language outpatient unit and among them 396 persons were found to have normal speech. The remaining 6544 were diagnosed to have language disorders (4490), voice disorders (688), fluency disorders (650), articulation disorders (489) and multiple disorders (227). The details are given in table 8.

Table 8: Disorders-wise Distribution of Diagnostic Evaluation seen in OPD- Speech/ Language.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Disorders** | **Language****Disorders** | **Voice****Disorders** | **Fluency****Disorders** | **Articulation****Disorders** | **Multiple****Disorders** | **Normal** |  |
| **Months** | **C** | **A** | **G** | **C** | **A** | **G** | **C** | **A** | **G** | **C** | **A** | **G** | **C** | **A** | **C** | **A** | **G** | **Total** |
| April | 505 | 5 | 4 | 25 | 34 | 19 | 69 | 27 | 3 | 69 | 11 | 0 | 19 | 1 | 26 | 25 | 2 | 844 |
| May | 373 | 3 | 2 | 21 | 31 | 16 | 55 | 22 | 2 | 67 | 16 | 4 | 21 | 2 | 21 | 11 | 2 | 669 |
| June | 359 | 3 | 3 | 11 | 36 | 9 | 39 | 18 | 1 | 22 | 5 | 3 | 27 | 4 | 3 | 16 | 2 | 561 |
| July | 429 | 4 | 2 | 19 | 29 | 10 | 33 | 17 | 1 | 21 | 5 | 2 | 27 | 3 | 11 | 19 | 3 | 635 |
| Aug | 272 | 3 | 1 | 18 | 27 | 7 | 23 | 17 | 2 | 24 | 2 | 1 | 14 | 1 | 12 | 8 | 0 | 432 |
| Sep | 300 | 6 | 3 | 7 | 28 | 8 | 22 | 18 | 0 | 19 | 6 | 1 | 19 | 3 | 11 | 12 | 2 | 465 |
| Oct | 356 | 5 | 4 | 8 | 17 | 10 | 56 | 24 | 1 | 39 | 8 | 2 | 22 | 2 | 19 | 11 | 2 | 586 |
| Nov | 334 | 4 | 2 | 31 | 37 | 8 | 29 | 13 | 0 | 19 | 6 | 2 | 19 | 1 | 8 | 15 | 2 | 530 |
| Dec | 403 | 3 | 3 | 20 | 36 | 15 | 31 | 19 | 1 | 32 | 4 | 2 | 20 | 7 | 16 | 25 | 4 | 641 |
| Jan | 343 | 3 | 1 | 16 | 34 | 6 | 23 | 16 | 1 | 20 | 7 | 5 | 9 | 1 | 14 | 23 | 0 | 522 |
| Feb | 388 | 4 | 2 | 13 | 25 | 15 | 10 | 11 | 1 | 16 | 5 | 4 | 3 | 2 | 19 | 11 | 5 | 534 |
| Mar | 353 | 3 | 2 | 5 | 27 | 10 | 21 | 23 | 1 | 29 | 8 | 3 | 0 | 0 | 17 | 16 | 3 | 521 |
| **Total** | **4415** | **46** | **29** | **194** | **361** | **133** | **411** | **225** | **14** | **377** | **83** | **29** | **200** | **27** | **177** | **192** | **27** | **6940** |
| **Disorder wise** | **4490** | **688** | **650** | **489** | **227** | **396** |
| **Overall total 6940** |

C: Child, A: Adult, G: Geriatric

Clients requiring further management were given various speech/language therapies for a number of daily sessions of 45 minutes duration. A total of 48,660 such therapy sessions were conducted for 6286 persons with speech/language disorders. Support and guidance were also given to the family members for home training. In addition, the needy patients were referred to other appropriate therapy units of the Institute. The details of disorder-wise distribution of therapy are given in table 9.

Table 9: Therapeutic Details of Speech and Language Disorders.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Disorders** | **Language Disorders** | **Voice****Disorders** | **Fluency****Disorders** | **Articulation****Disorders** | **Multiple** | **Total** |
| **Months** | **C** | **A** | **G** | **C** | **A** | **G** | **C** | **A** | **G** | **C** | **A** | **G** | **C** | **A** | **G** |  |
| April | 403 | 12 | 2 | 9 | 0 | 0 | 5 | 15 | 0 | 8 | 0 | 0 | 35 | 1 | 0 | **490** |
| May | 474 | 46 | 7 | 10 | 15 | 9 | 2 | 3 | 0 | 3 | 16 | 4 | 20 | 2 | 0 | **611** |
| June | 704 | 55 | 3 | 5 | 1 | 1 | 12 | 0 | 0 | 39 | 3 | 0 | 93 | 6 | 0 | **922** |
| July | 418 | 12 | 1 | 15 | 0 | 0 | 14 | 10 | 0 | 8 | 0 | 0 | 33 | 0 | 0 | **511** |
| Aug | 343 | 80 | 9 | 0 | 17 | 6 | 27 | 16 | 0 | 62 | 9 | 0 | 156 | 36 | 12 | **773** |
| Sep | 288 | 11 | 3 | 0 | 3 | 2 | 6 | 14 | 0 | 7 | 0 | 0 | 70 | 1 | 0 | **405** |
| Oct | 331 | 14 | 4 | 4 | 5 | 1 | 23 | 20 | 0 | 14 | 1 | 0 | 102 | 3 | 0 | **522** |
| Nov | 312 | 14 | 6 | 0 | 6 | 2 | 10 | 6 | 0 | 7 | 2 | 0 | 69 | 2 | 0 | **436** |
| Dec | 246 | 12 | 5 | 2 | 5 | 6 | 4 | 4 | 0 | 10 | 1 | 0 | 70 | 0 | 0 | **365** |
| Jan | 270 | 12 | 4 | 2 | 5 | 5 | 3 | 2 | 1 | 8 | 4 | 1 | 73 | 1 | 0 | **391** |
| Feb | 304 | 11 | 4 | 1 | 6 | 2 | 12 | 11 | 0 | 8 | 2 | 1 | 72 | 2 | 0 | **436** |
| Mar | 294 | 10 | 9 | 1 | 6 | 1 | 11 | 15 | 0 | 9 | 4 | 0 | 62 | 2 | 0 | **424** |
| **Total** | **4387** | **289** | **57** | **49** | **69** | **35** | **129** | **116** | **1** | **183** | **42** | **6** | **855** | **56** | **12** | **6286** |
| **Disorder wise** | **4733** | **153** | **246** | **231** | **923** |
| **Over all** | **6286** |

C: Child, A: Adult, G: Geriatric

**Audiological Assessment and Rehabilitation:** The institute has been serving persons with hearing impairment of all ages across the country. The outpatient unit of Audiology Department provides complete diagnostic and re-habilitative audiological services.

In the current year, totally 17,832 ears of 11063 clients were screened and among them 3459 were found to have normal hearing. The remaining 14373 ears had sensory-neural hearing loss (7507), mixed hearing loss (4270) and conductive hearing loss (2596). Month-wise distribution of hearing evaluation done is given figure 3.



Various audiological tests like pure tone audiometry, speech audiometry, immittance audiometry, ABR, BOA and OAE were conducted for the affected persons using state-of the-art equipments. The details of hearing evaluation and diagnosis are given in table 10.

Table 10: Hearing Evaluation and Diagnosis.

|  |  |
| --- | --- |
| **Category** | **No.** |
| Total no. of clients evaluated/screened for hearing problems | 11063 |
| No. of ears tested | 17832 |
| * Normal hearing
 | 3459 |  |
| * Conductive hearing loss
 | 2596 |  |
| * Mixed hearing loss
 | 4270 |  |
| * Sensori-neural hearing loss
 | 7507 |  |
| No. of clients for whom case history taken | 13157 |
| No. of clients for Pure tone audiometry | 10229 |
| No. of clients for Speech audiometry | 10306 |
| No. of clients for Immittance evaluation | 10536 |
| No. of clients for BOA | 767 |
| No. of clients for ABR | 2631 |
| No. of clients for OAE | 793 |
| No. of clients for VRA | 98 |
| No. of clients for CAPD tests | 39 |
| No. of clients for VEMP | 37 |

The hearing aid trial unit of the institute evaluated 10597 clients diagnosed with hearing problems to determine the appropriate hearing aids and assistive learning devices to them. The unit also determined the candidacy for cochlear implants. The detailed statistics on hearing aid trial and hearing aids prescribed during the report year are given in table 11.

Table 11: Activities of Hearing Aid Trial Unit.

|  |  |
| --- | --- |
| **Category** | **No.** |
| Total no. of clients evaluated for hearing devices | 10597 |
| No. of clients seen for hearing aid trial at AIISH | 8761 |
| No. of clients seen for hearing aid trial at Camps | 751 |
| No. of hearing aid prescribed at camps | 623 |
| No. of clients counseled | 4038 |
| Hearing aids prescribed | 5061 |
| * Body level
 | 3740 |  |
| - ADIP | 3569 |  |  |
| - Purchased | 171 |  |  |
| * Analogue BTE
 | 23 |  |
| * Digital BTE
 | 1195 |  |
| * Trimmer Digital BTE
 | 102 |  |
| * Digital ITC
 | 49 |  |
| * Digital CIC
 | 9 |  |
| No. of clients recommended | 1922 |
| * Auditory training
 | 1127 |  |
| * Speech reading
 | 795 |  |
| No. of hearing aids prescribed on exchange | 274 |
| No. of clients for whom aided ASSR done | 6 |
| No. of unaided/aided audiograms | 609 |
| No. of unaided/aided audiograms for CI | 29 |
| Candidacy for CI | 45 |
| Mapping for CI | 65 |
| Aided VRA | 132 |
| Programming of digital hearing aids | 882 |
| No. of certificates issued for DL/LIC/Financial aid | 258 |
| No. of IGO done | 55 |
| No. of EAC of hearing aids done | 360 |
| No. of clients tested in Hindi | 316 |
| No. of clients recommended for retrial with custom ear mould | 336 |
| No. of clients for whom ALDs tried | 3 |
| No. of clients referred to AIISH | 67 |

Custom ear moulds were made for the clients who were prescribed hearing aids. 5421 ear impressions of 3411 clients were taken. 3247 ear moulds were made free of cost. The details of ear mould statistics are given in table 12.

Table 12: Activities of Ear Moulds Lab.

|  |  |
| --- | --- |
| **Category** | **No.** |
| No. of clients seen | 3411 |
| No. of impressions taken | 5421 |
| No. of ear moulds made free-of-cost | 3247 |
| No. of ear moulds made on 100% payment | 2175 |
| No. of ear moulds completed | 5103 |
| No. of ear moulds issued | 4674 |
| No. of hard regular moulds made | 3210 |
| No. of hard shell moulds made | 160 |
| No. of soft moulds made | 1940 |
| No. of ITC impression made | 45 |
| No. of swimmer plug (soft) | 49 |
| No. of molds with acoustic modifications | 4 |
| No. of ear moulds impression taken at camps | 342 |
| No. CPL impressions received | 314 |
| No. of CPL moulds completed | 311 |
| No. of CPL moulds defective | 3 |

Age-wise statistics of clients seen in hearing evaluation (HE), hearing aid trial (HAT) & counseling and ear mold (EM) sections of the department of Audiology are given in the table 13.

Table 13**:** Age-wise Audiological Assessment**.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Age****group** | **HE** | **HAT** | **HAT C** | **EM** |
| **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** |
| 00-01 | 163 | 108 | 132 | 104 | 48 | 27 | 61 | 58 |
| 02-05 | 644 | 513 | 908 | 683 | 174 | 149 | 344 | 304 |
| 06-10 | 437 | 376 | 516 | 379 | 178 | 117 | 180 | 129 |
| 11-15 | 347 | 273 | 294 | 218 | 117 | 74 | 114 | 97 |
| 16-20 | 396 | 301 | 241 | 161 | 96 | 69 | 101 | 65 |
| 21-25 | 412 | 297 | 215 | 130 | 114 | 66 | 73 | 52 |
| 26-30 | 386 | 306 | 193 | 89 | 94 | 69 | 72 | 47 |
| 31-35 | 351 | 256 | 150 | 128 | 55 | 55 | 49 | 34 |
| 36-40 | 351 | 268 | 166 | 139 | 108 | 85 | 63 | 53 |
| 41-45 | 326 | 236 | 176 | 121 | 81 | 73 | 62 | 50 |
| 46-50 | 311 | 239 | 210 | 120 | 119 | 82 | 76 | 66 |
| 51-55 | 347 | 219 | 244 | 143 | 143 | 88 | 96 | 55 |
| 56-60 | 370 | 262 | 325 | 170 | 168 | 96 | 121 | 64 |
| 61-65 | 416 | 256 | 398 | 165 | 235 | 131 | 153 | 87 |
| 66-70 | 391 | 262 | 415 | 198 | 262 | 128 | 182 | 76 |
| 71-75 | 351 | 186 | 368 | 133 | 225 | 130 | 133 | 52 |
| 76-80 | 227 | 95 | 295 | 96 | 161 | 53 | 107 | 33 |
| 81-85 | 135 | 69 | 169 | 48 | 74 | 56 | 50 | 19 |
| 86-90 | 60 | 27 | 60 | 35 | 38 | 15 | 20 | 8 |
| 91+ | 10 | 6 | 19 | 7 | 7 | 7 | 4 | 2 |
| **Total** | **6431** | **4555** | **5494** | **3267** | **2497** | **1570** | **2061** | **1351** |
| **10986** | **8761** | **4067** | **3412** |
| **Grand Total 27226** |

 M : Male, F: Female ,HE: Hearing Evaluation, HAT: Hearing Aid Trial, HAT C: HAT Counseling, & EM: Ear moulds.

**Psychological Assessment and Rehabilitation:** A number of patients registered with the Institute undergo routine psychometric assessment at the psycho-diagnostic clinic of the Department of Clinical Psychology.

During the reporting year, 4402 new cases and 1175 repeat cases were seen at the clinic. These include patients with mental retardation (1862), expressive language disorders (941), hearing loss (4481), learning disability (457), stuttering (398), misarticulation (75), functional voice disorders (7), voice problem (16), and others (920). Appropriate therapeutic services like behaviour therapy, home-based training instructions, remedial training and parent counseling were provided. The details regarding the nature and type of therapy provided to cases are given in table 14.

Table 14:Psychological Assessment and Rehabilitation.

|  |  |  |
| --- | --- | --- |
| **Particulars** | **Total No. of****Cases** | **Total****No. of****Sessions** |
| Behavior therapy | 617 | 979 |
| Home based training program for MR/SLD | 405 | 1293 |
| Remedial training for SLD cases | 51 | 394 |
| Parent counseling program | 3075 | 3075 |
| Neuropsychological Assessment | 38 | 79 |
| Neuropsychological rehabilitation | 44 | 315 |
| Home based rehabilitation program | 6 | 17 |

**Otorhinolaryngological Assessment and Rehabilitation:** The clinical unit of the ENT department examines and treats ENT diseases related to communication disorders. The unit rendered services to 15560 new and 16063 repeat cases during the year of report. In addition to the services in institute, the ENT department also extended the services to K.R Hospital, Mysore where 6069 new and 6681 repeat cases were examined. The unit conducted 16,754 microscopic examinations, 279 endoscopic examinations and 31 vertigo evaluations.

**II. Specialized Clinical Services**

In addition to the general clinical services, the institute also delivers a number of specialised clinical services through the credentialed professionals working in the Departments of Audiology, Speech - Language Pathology, Speech - Language Sciences, Special Education and ENT.

**Listening Training Unit:** Listening training was provided for the clients who use hearing devices such as hearing aids, cochlear implants and for those with tinnitus and hyperacusis, in the listening training unit.

In the report year, totally 2261 clients underwent listening training comprising of 14493 sessions. Training sessions were handled by student clinicians under the supervision of experienced department staff. The detailed statistics on listening training activities are given in table 15.

Table 15: Activities of Listening Training Unit.

|  |  |
| --- | --- |
| **Category** | **No.** |
| Total no. of clients seen | 2261 |
| Total no. of sessions | 14493 |
| No. of clients for whom demonstration therapy given | 145 |
| No. of new clients | 436 |
| No. of repeat clients | 1827 |
| Parent counselling session (Individual) | 917 |
| No. of clients given training in Hindi | 183 |
| No. of clients with CI | 138 |
| No. of sessions for clients with CI | 906 |
| No. of sessions for tinnitus / hypercusis | 155 |

Professional Voice Care Unit: Forty two M.Sc. (Speech - Language Pathology) students, and 42 interns underwent training for a total duration of 2447 hours, last year at the Professional Voice Care Unit. In addition, five professionals with voice disorders were evaluated and one was given therapy in the unit.

Augmentative and Alternative Communication Unit: This is to support, enhance and provide alternative methods of communication for individuals who are non-verbal. The unit evaluated 18 new and 236 therapy cases, last year. The total number of therapy sessions conducted was 1392. In addition to these, there were 3 home training cases and one demonstration therapy (DT) case.

Autism Spectrum Disorder Unit: This unit provides assessment, treatment and consultation services for clients diagnosed to have Autism spectrum disorders. 234 new cases were evaluated at the unit, last year. In addition to this, 36 D.T cases and 643 therapy cases consisting of 3605 sessions were conducted. The details are given in table 16.

Table 16: Activities of ASD Unit.

|  |  |
| --- | --- |
| **Category** | **No.** |
| Cases evaluated | 234 |
| Assessment sessions | 236 |
| Therapy cases | 643 |
| Therapy sessions | 3605 |
| D.T. cases | 36 |

Structural Craniofacial Anomalies Unit (U-SOFA): U-SOFA is a multi-disciplinary clinic committed to provide comprehensive diagnostic and rehabilitative services to clients with deformalities in the growth of head and facial bones. Totally 256 clients were evaluated at the clinic by the experts in orthodontics, prosthodontics and plastic surgery. Among them 51 were recommended for surgery and 77 for speech therapy. The detailed activities of the unit are given in table 17

Table 17: U-SOFA Activities.

|  |
| --- |
| **Diagnostics** |
|  | **P** | **A** |
| Plastic surgeon | 129 | 22 |
| Prosthodontist | 28 | 9 |
| Orthodontist | 59 | 9 |
| **Rehabilitation Recommended** |
|  | **P** | **A** |
| Orthodontic treatment | 11 | 3 |
| Surgery | 48 | 3 |
| Speech therapy | 71 | 6 |
| Prosthesis | 2 | 2 |
| **Details of Rehabilitation** |
|  | **P** | **A** |
| Session for preparation of prosthesis | 24 | 7 |
| No. of speech prosthesis prepared | 4 | 2 |
| Speech and Language therapy | 125 | 5 |
| Demonstration therapy | 20 | 0 |
| Demonstration therapy sessions | 123 | 0 |
| Speech and Language therapy sessions | 633 | 0 |
| **Manpower Development No.** |
| Undergraduate students trained | 70 |
| Internee trained | 44 |
| Postgraduate students trained | 68 |

 P: Pediatric, A: Adult

**Fluency Unit:** This is a newly launched service in the department of clinical services. The unit caters to the needs of persons with stuttering and other fluency disorders. Last year it provided clinical service to 571 persons with fluency disorders in 3621 sessions. The unit also enables the professionals to conduct research on neuroanatomical, neurophysiological and genetic aspects of fluency disorders.

**Vertigo Unit:** Vertigo refers to the symptoms of giddiness or imbalance. The clinic offers a comprehensive care in evaluation and management of patients with Vertigo. A multidisciplinary team comprising of ENT surgeon, neurologist and audiologist provide the care. Facilities available in this unit include microscopic examination of ear, electro nystagmography, vestibulo spinal tests, neurological evaluation, audiological tests and Vestibular Evoked Myogenic Potential (VEMP) test. Totally 31 patients were evaluated in the clinic last year for both peripheral and central vertigo.

**Pre-school:** Educational-cum-clinical services are being provided to children with communication disorders belonging to various age groups at the pre-school. The major programs conducted at the pre-school are (a) Pre-school training for children with communication disorders (b) parent empowerment programme for parents of children 2½ years and above awaiting pre-school admission. During the year under report, 223 children with communication disorders underwent pre-school training consisting of 25141 sessions. Moreover, 281 children with multiple disorders were grouped according to their disorders and group-wise training was provided. Parent empowerment program was attended by 509 clients. Totally 832 sessions were conducted for the program.

**Medical Specialty Services:** The institute facilitates the services of various allied medical specialities to the needy patients with communication disorders who register in the department of clinical services. The patients can avail the consulting services from Paediatrician, Neurologist, Plastic surgeon, Prosthodontist, Orthodontist, Phonosurgeon, Physiotherapist and Occupational therapist.

1162 patients underwent occupational therapy in 7344 sessions and 1148 patients underwent physiotherapy in 9005 sessions, last year. In addition to these, 539, 348, 149, 71, 67 and 63 patients consulted Neurologist, Paediatrician, Plastic surgeon, Prosthodontist, Phonosurgeon and Orthodontist, respectively. Thus altogether 3547 patients availed the medical speciality services at the institute. The details are given in table 19.

Table 19: Medical Specialty Services.

|  |  |
| --- | --- |
| **Category** | **No.** |
| PT | Cases | 1148 |
| Session | 9005 |
| OT | Cases | 1162 |
| Session | 7344 |
| Neurologist | 539 |
| Pediatrician | 348 |
| Phonosurgeon | 67 |
| Plastic surgeon | 149 |
| Prosthodontist | 71 |
| Orthodontist | 63 |

PT: Physiotherapy, OT: Occupational Therapy

**III. Clinical Outreach Services**

The institute conducts outreach services with the objective of providing diagnostic and therapeutic services to patients in remote areas, suffering from communication disorders and making the public aware of the measures to be taken to prevent communication disorders. These services supplement and support the care people receive within their local healthcare system. The outreach services are carried out mainly through the Department of Prevention of Communication Disorders (POCD) and Centre for Rehabilitation and Education through Distance Mode (CREDM).

**Department of Prevention of Communication Disorders (POCD)** conducts screening programs for speech and hearing disorders in different settings in various localities and provide diagnostic and therapeutic services. These include (i) screening newborn babies and children for communication disorders in hospitals, (ii) clinical services to the rural people at the 4 outreach Service centres of the department, (iii) hearing screening for industrial workers, and (iv) screening programs at camps.

Under the infant Screening Program of the department, 12523 babies were screened for hearing in 12 hospitals,3 immunization centres and 2 primary health centres in and around Mysore and 1485 among them were referred to AIISH for follow-up. Communication disorder related diagnostic and therapeutic services were provided for persons in rural areas around the outreach service centres. Totally 4461 clients ranging from infants to adults underwent screening in the 4 outreach service centres. Among them, 649 individuals were diagnosed to be having otolaryngological, audiological and speech and language related disorders. Hearing aids were issued to 285 persons with hearing loss and ear mould impressions of 218 persons were taken.Also,129 persons were recommended for speech and language therapy.

Under the hearing screening for the industrial workers program of the department, hearing evaluations were conducted for 132 employees working in Karnataka Silk Industries Company, 90% of the workers screened were found to have hearing loss and the employees were counselled regarding the need to use ear protective devices. 13 camps were conducted by the Institute at various places within and around Karnataka with the objective of screening persons for speech, language and hearing disorders. Totally 2846 persons were evaluated in these camps and 600 persons among them were recommended to the institute for follow-up. The cumulative statistics of various clinical services of POCD are given in table 21.

Table 21: POCD Clinical Services.

|  |  |  |
| --- | --- | --- |
| **Activity** | **Clients Evaluated** | **Clients****Referred** |
| Infant Screening | 12523 | 1485 |
| Industrial Screening | 132 | ----- |
| Outreach Centresa)Hearing Aid Issuedb)Ear Mouldsc)Sp.Hg.therapy | 285218---- | -------129 |
| Camps | 2846 | 600 |

**Centre for Rehabilitation and Education through Distance Mode (CREDM)** works with the motto of ’reaching the unreached’. The centre offers many innovative clinical outreach services to persons with communication disorders at distant places through tele-diagnostic and rehabilitation services and e-discussion forums. Tele-intervention and rehabilitations were done on a daily basis throughout the year. Constant home training was given and follow-ups were done for the needy cases. 18 and 202 clients were offered tele-diagnosis and tele-services, respectively. The details of tele-diagnosis and intervention delivered last year are in figures 4 and 5.

Figure 4: Tele-Diagnosis.

Figure :5 Tele- Intervention.

**IV. Clinical Electronic Services**

The clinical electronic services provided under the Department of Electronics include electro- acoustic evaluation, management and issue of hearing aids.

Totally 5438 hearing aids with solar battery chargers were distributed at the institute (4624), camps (692), and clinical outreach centres (122), after electro-acoustic evaluation and testing. These activities were carried out under the ADIP scheme of Ministry of Social Justice and Empowerment, Government of India. In addition to this, 996 hearing aids were distributed at concessional rate under AIISH hearing aid dispensing scheme. The department also repaired 403 body level and 116 BTE hearing aids and freely serviced 446 BTE hearing aids.

**V. Clinical Support Services**

The institute extends a diverse range of support services to patients and their family who approach the institute for services. These include counselling and guidance on various aspects of the disorders, treatment procedures, usage and care of tools like hearing aids, issue of certificates like financial aid, tax exemption, educational scholarship, railway concession, and school admission to the deserving. The clinical support services provided by the institute to the eligible candidates, last year are given in table 22.

Table 22: Clinical Support Services.

|  |
| --- |
| **Dept. of Clinical Services** |
| **Particulars** | **No.** |
| Transfer certificate | 21 |
| Case reports | 528 |
| Attendance certificates | 32 |
| School admission certificate/Language exemption certificate | 109 |
| Correspondence by e-mail/letter/FU | 372 |
| **Department of Audiology** |
| Financial aid | 893 |
| Admission to school for the deaf | 129 |
| Physically handicapped | 212 |
| Tax exemption | 54 |
| Education scholarship | 107 |
| At camp | 4 |
| Others | 120 |
| **Department of Clinical Psychology** |
| MR Certificates  | 1287 |
| Railway concession certificates | 94 |
| Learning disabilities. | 156 |
| Psychological Report for special school admissions | 117 |
| Tax Exemption Certificate  | 30 |
| Medico-legal cases | 3 |
| Court appearance for rendering expert opinion | 3 |

6

Activities of the Central Facilities

The major central facilities of the institute include Library and Information Centre, Public Information Office and Department of Material Development. All these support the objectives of the institute.

**I. Library and Information Centre**

The Library and Information Centre (LIC) continued to be the focal point of scholastic activities of the institute during the reporting year. The teaching, learning, research and clinical activities of the institute have been underpinned by LIC through its outstanding collection, an array of traditional and technology-based tools and services and comfortable and large learning space. The major activities of the LIC during the reporting year are outlined below:

**a) Building Collection:** LIC enhanced the collection development activities during the year and procured different types of resources. It strengthened its e-resource collection by introducing E-books and Online databases and by subscribing more number of E-journals.

(i) **Print Books and Bound Volumes:** During the report year it added 741 books to the collection which is the highest figure in the last 3 years.

(ii) **Print Journals:** The LIC subscribed 64 print journals of which 5 print journals were subscribed newly and the remaining were renewed subscriptions.

(iii) **E-Books:** The LIC introduced E-books in its collection for the first time by procuring 138 titles. All the titles are pertaining to various aspects of communication disorders.

(iv) **E-Journals:** Sixty three E-journals were subscribed during the year under report. Among them, 48 are available in print format also. 7 E-journals were subscribed newly in the year. In addition to the subscribed E-journals, LIC was getting access to more than 2500 biomedical E-journals as an institutional member of ERMED consortium.

**(v) Online databases:** The LIC also introduced Online databases in its collection by subscribing two reputed bibliographic databases in the field of communication disorders published by Proquest Incorporation namely, *ComDisDome and* *Linguistics and Language Behaviour Abstract*.

b) Traditional Information Services: The major traditional information services provided by the LIC during the year under report were reference service, book lending service and reprographic service.

c) Electronic Information Services: LIC provided two categories of electronic information services during the reporting year: Internet service and web portal based services

(i) Internet Service: LIC strengthened the provision of internet service to the member community during the reporting year by adding more number of computers with internet access. By the end of reporting year, totally there were 44 computers with internet access in the LIC.

(ii) Web portal based Information Services: Library and Information Centre provided a variety of information services through its web portal available at www.aiish.ac.in, such as access to the Digital Research Repository and Online Public Access Catalogue, in addition to E-book, E-Journal and online data base services.

d) Digitization of Research Reports: During the reporting year more than 1000 pages of research papers have been digitized and uploaded to the digital research repository. These include PG dissertations and other project works done at the institute.

**II. Material Development Activities**

During the reporting year, the Department of Material Development prepared 1590 materials of different types including posters, certificates, identity cards, prospectus, and CD covers. In addition to this, the department staff provided photo coverage and video coverage of 85 and 9 institute events, respectively. Further the Department received 300 work orders from different departments and carried out colour printing, photocopying and scanning of more than 25, 000 pages.

**III. Public Information Activities**

Public information office of the institute is responsible for taking care of institute publications and maintenance of media relations.

The major activities of the Public Information Office during last year included the following.

i) Issue of more than 25 media releases on major events and significant achievements of the institute.

ii) Publication of *Journal of All India Institute of Speech and Hearing*, Vol.24 Issue 1 & 2.

iii)Publication of *Student Research at AIISH* Volume No. VIII, an in-house publication compiled out of dissertation works of the post graduate students of the institute.

iv)Publication of a number of brochures and posters related to the activities of various departments of the institute.

v) Arranging for 13 camps at various places in Karnataka and Kerala.

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Administrative Matters

The administrative office is responsible for the financial, personnel and other administrative operations of the institute. The office provides assistance and support to the Director in general administration and management of the institute. The major administrative activities of the institute during the year under review are given below.

I) Personnel Management

Staff Strength: The institute had a staff strength of 340 persons by the end of the last fiscal year. This includes 177 regular and 163 contract personnel coming under various categories such as teaching, administrative, project, clinical, technical and other professional staff.

a) New Recruitment: A large number of personnel were appointed newly to various positions in the institute, in the report year. This includes 43 regular staffs under A,B and C classes and various categories of contract staff. Thus the year witnessed the largest number of recruitment in the history of the institute.

b) Promotion: Mr. A. N. Prasad was promoted to the post of Accounts Officer, and Prof. K.C Shyamala to the post of Professor (scale of pay `.37400-67100+GP-8700) under Assessment Promotion Scheme.

c) Retirement/Repatriation/Resignation:

During the reporting year, 4 staff members superannuated, 1 repatriated and 2 resigned from the regular service of the institute. In addition to this, 91 contract staff working under various

capacities were relieved / resigned from the service during the period.

II) Financial Management

The matters related to the financial status of the institute during the last fiscal year are given in Appendix – I.

III) Official Language Implementation

Various programs were arranged during the year to accelerate official language implementation.

Hindi training and examination: The staff who attended Hindi classes in July – November 2010 session were Smt N. Devi, Lecturer in Audiology, Sri. Rajasudhakar, Lecturer in Speech Sciences, Sri C. Chethan, Earmould Technician (all for Prabodh) and Sri S. Ram Kumar, Registrar (Pragya). All of them successfully completed the courses. The staffs nominated for January- May 2011 training session are: Mr. Nidheesh David Kuruvila, Senior Library & Information Assistant (Prabodh) and Ms. N. Devi, Lecturer in Audiology (Praveen).

Material Development: During the year under report, 26 general orders/ memos/ notes/ circulars, 21 training materials/ handouts, 2 Invitation cards and 17 certificates were rendered in Hindi. In addition to these, DHLS course materials were also translated.

Counseling: 5359 Hindi speaking persons with communication disorders who visited the institute for treatment were counseled in Hindi.

Word a day in Hindi: A list of most frequently used words in official settings was displayed in administrative block, academic block, library, therapy clinic and pre-school.

OL Correspondence: Letters to outside organizations, office notes etc. were signed in Hindi in addition to replying to the letters received in Hindi.

Hindi Competitions (External): Employees of the institute were nominated for various competitions in Hindi such as quiz, essay and debate conducted by different central government organizations in Mysore. Mr. Mallikarjunaiah, Security Officer won II prize in the essay competition organized by Central Institute of Hindi, Mysore on 25th August 2010.

Hindi Week: Hindi week was celebrated in the Institute on 13-17 September 2010. Various competitions were held on the occasion and prizes were awarded thus giving impetus for propaganda of official language among the staff and students.

External Hindi Workshops/ Guest Lectures: Dr. H.P Uma Saraswathi, Hindi translator was deputed to attend two-day workshop on 26- 27 August 2010, at Central Institute of Hindi, Mysore.Dr. H.P Uma Saraswathi, Hindi Translator was sponsored to deliver lectures in Hindi workshops organised by BSNL and DFRL, Mysore.

Internal Hindi Workshop: Two-day Hindi workshop was organized on 17- 18 January 2011, which was attended by a total of 17 persons from various departments. Faculty from outside organizations were invited as guest lecturers and certificates were issued to the participants.

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Infrastructure Development and Maintenance Activities

The major infrastructure development and maintenance activities of the institute are being carried out by the maintenance section - engineering and horticulture.

I. Engineering Works

Last year the engineering section undertook 46 items of work in the institute. These include construction of new buildings and renovation and retrofit of existing ones. Of these, except 14, all other works were completed by the end of the year. The total cost of the work was around ` 200 lakhs.

II. Horticulture Activities

The horticulture section is responsible for the garden maintenance and landscape management of the institute. Last year the section maintained, preserved and enhanced natural beauty of the premises by growing trees and ornamental species of plants. 500 ornamental plants and 2000 flower pots were developed. The Horticulture section participated in the *Dasara Horticultural Flower Show-2010* conducted by State Horticultural Department at Mysore and won two 1st prizes, two 2nd prizes and one 3rd prize for well garden maintenance and growing of flowers in pots and beds.

III. Purchase of Equipments

The institute also strengthened its infrasturtcture through the upgradation of existing scientific equipments and procuring a number of new sophisticated tools and instruments. It spent a total amount of ` 4,37,31,531 towards the purchase 134 items of equipments, last year.

9

Extra – Curricular Events

The extracurricular activities in the institute are organised by ’AIISH GYMKHANA’ and the National Service Scheme unit.

I. AIISH GYMKHANA

AIISH Gymkhana is an association of staff and students of the institute. It acts as a platform for recreational, sports, social and cultural activities. The major programs organised by Gymkhana last year are given below.

Annual Day: The institute celebrated its 45th anniversary on 9th August 2010.Prof.Rajasekharan Pillai, Vice-Chancellor, Indira Gandhi National Open University, Prof.Ramanada Shetty, Vice Chancellor, Rajiv Gandhi University of Health Sciences, Bangalore and Prof.Rangappa, Vice-Chancellor, Karnataka State Open University, Mysore were the chief guests. Dr.Lingadevaru Halemani, Director, Rangayana, and Nanda D, Kannada Litterateur were the chief guests for the cultural evening held at the same venue.

Gandhi Jayanthi : AIISH Gymkhana celebrated the Gandhi Jayanthi on 2nd October, 2010. As part of the celebrations, competitions were held for staff and student members of AIISH Gymkhana. The function was special with the gracious presence of Shri Vedanta Hemmige, freedom fighter and Ex-MLA.

Open Day: AIISH Open Day for the year 2010-11 was held on 29th October,2010 . It is being conducted for making awareness and educate the school and college students and the general public on speech production, hearing mechanism, prevention and management of communication disorders and vocal hygiene. The Open Day was inaugurated by Dr. N. Rathna, former Director of AIISH. Dr. Prabha Mandal, Pediatrician was the guest of honor during the program. Various competitions were held including

drawing, painting, pick and speak on various aspects of speech and hearing for school children and college students. Competitions were also held for parents of children with communication disorders on various aspects. School children from rural parts of Hulalli, Gumballi and Akkihebbalu participated in the program.

Kannada Rajyotsava: AIISH Gymkhana celebrated Kannada Rajyotsava on 12th November 2010.As part of the celebrations, competitions were held for staff and student members of AIISH Gymkhana on 9-11 November 2010. The competitions included folk song, poster making in Kannada and picture naming in Kannada. Shri H.K. Ramanath, dramatist and litterateur, Regional Institute of Education, Mysore was the chief guest during the occasion.

Traffic Awareness Program : Student members of AIISH Gymkhana and special children from the institute participated in *Rhythmic Weekly Wellness*, a program organised by Dr.Anil Sangli, consultant Neuro and Spine surgeon and staged a street play on *Traffic Wellness* on 13th February 2011. The street play was centred on the theme *Rash driving- A road to life with handicap.*

Science Day: AIISH Gymkhana celebrated the National Science Day on 28th February 2011 as a mark of respect to the most eminent scientist of India and the World, Sir C. V. Raman. As part of the celebrations, competitions were held for staffs and students of AIISH Gymkhana on 26th February 2011. Dr. Mewa Singh, Professor of Psychology and Dean, Science Faculty, University of Mysore graced the occasion as chief guest.

International Women’s Day: International Women’s Day was celebrated on 8th March 2011 as a mark of respect, appreciation and love towards women. The celebration was graced by Dr. M. Indira, Professor and Honorary Director, Centre for Women’s Studies, University of Mysore. As part of the celebration, panel discussion was held on various issues related to *multifaceted roles of women.* The panel included students and staff members of the AIISH Gymkhana.

Cultural and Sports Competitions: Cultural and sports competitions were conducted for students and staff. The items included dance (group and solo), singing (group and solo), rangoli draw, salad making, antakshri, flower arrangement, poem writing, pick and speak, cricket, volleyball, throw ball, carrom, chess, shuttle badminton, shot-put throw, lemon race and slow cycling. The prizes were distributed on 12th March 2011 during *AIISH Aawaaz 20011*.

AIISH AAWAAZ 2011: The inter-collegiate festival, *AIISH AAWAAZ 2011* was conducted on 11-13 March 2011 at Panchavati Campus of the institute. The inauguration of the event was held on 11th March 2011. Mr. Prem, Kannada cine actor and Vid. Nandini Eshwar, danseuse graced the occasion as chief guest and guest of honour, respectively. The valedictory ceremony was held on 13th March 2011. Dr. N.P Nataraja, Director, J.S.S Institute of Speech and Hearing, Mysore was the chief guest. Students representing more than 20 colleges in and around Mysore participated in the intercollegiate cultural competitions held to mark the event.

Release of News Letter: *Kuhoo Kuhoo*, the news letter of Gymkhana was revived and the first volume released on 11th March 2011 on the inaugural function of *AIISH Aawaaz 2011*.

II. National Service Scheme

The institute has a vibrant National Service Scheme unit with 167 enrolled volunteers. The unit delivered a number of commendable services to the AIISH community and the public last year. The notable among them include the following:

Educational Programs: The unit organised (a) Special coaching program on core subjects of speech and hearing to the needy students of the Institute, (b)

Invited lectures on *tips to prepare for and write in examination,* (c) Public education on *dos and don’ts while celebrating Diwali.*

Shramadan Activities: 14 shramadan activities were conducted in various localities in Mysore city and inside the campus. The activities included (i) cleaning public places and making the citizens aware of hazards of accumulating plastic wastage, (ii) planting tree saplings in public places, (iii) blood donation, (iv) cleaning institute premises, and (v) production of paper bags.

Special Camp: The NSS unit conducted a special camp at Myrada Kaveri Pradeshika Samsthe, Hand post, H.D. Kote, with the motto *healthy youth for healthy India* from 26th February 2011 to 4th March 2011. 50 student volunteers participated in the camp, which was inaugurated by Sri.Druvanarayana, Member of Parliament from Chamarajanagara. The activities performed include door-to-door survey in the nearby 25 villages to identify individuals with communication disorders and rendering of clinical services at the camp to persons identified with communication disorders with the help of 13 speech and hearing practitioners from the institute. The services included ENT evaluation, distribution of medicine, audiological testing, hearing aid trial and fitting, issue of hearing aids, speech-language evaluation and therapy, psychological evaluation, issue of the disability certificates, issue of the ear moulds and counselling. *Vanamahothsava* programme was conducted at Nemmanahalli village in which fruit bearing saplings were planted within the boundaries of houses of interested individuals who assured taking care of the plants. Cultural programmes including street play to create awareness on communication disorders among the villagers were also conducted.

Other Activities: The NSS unit also organised trekking, Inter-group cricket competition, literary, and cultural programs during previous year.

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Other Activities and Events

The other major activities/events taken place during the year under report are the following.

**I. Technological Consultancy Services**

The department of Electronics is equipped with state-of the art equipments and expertise in the area of acoustic noise measurements. During the reporting year, the following consultancy services were carried out by the department.

I) Ambient noise and reverberation time measurements at National Centre of Biological Sciences, Bangalore.

ii) Reverberation time measurement at Kalamandira, Mysore.

iii) Electro acoustic evaluation of 66 hearing aids received from DRC, Chengalpet; State Commissioner for differently-abled, Tamil Nadu; District Project Officer, SSA, Malappuram, Kerala.

**II. Awards and Laurels**

Various awards and laurels received by the staff and students during the report are given below.

i) The following awards were presented to the students at the convocation held at the University of Mysore.

 Ms. S. Priyashri was awarded *P.D. Manohar Gold Medal* for securing highest marks in M.Sc. (Speech-Language Pathology) in June 2010 examinations.

 Mr. Prashanth Prabhu was awarded *Arathi Venkataraman Gold Medal* for securing highest marks in M.Sc. (Audiology) in June 2010 examinations.

 Ms. Vinni Chhabra was awarded *Sri. D.K. Venkatesh Murthy Medal* for securing I rank in B.Sc. (Speech & Hearing) in May 2010 examinations.

 Ms. S. Priyashri was awarded *Smt. Jayalakshamma Medal* and *Friends United* *Organization Endowment Scholarship* for securing highest marks in M.Sc. (SLP) in June 2010 examinations.

 Mr. Prashanth Prabhu was awarded *Abhilasha Award* for best student clinician in Final M.Sc. for the year 2009-10.

ii) Jyothi, Kanchan Kumari, & Sujeet Kumar Sinha. won M Raghunath Memorial Award for best poster presentation in Audiology for the paper titled *Test-retest-reliability of cochlear hydrops analysis masking procedure test at* 43rd Annual Convention of Indian Speech & Hearing Association (ISHACON). Kolkata, 21-23 January 2011.

Iii) Dr. Santosh M, Reader, Department of Speech-Language Sciences, won the best paper in Speech- Language Pathology for the paper titled *Prevalence of voice* *problems in university teachers* at 7th Annual Conference of Association of Phonosurgeons of India (PHONOCON 2011). The Army Hospital (Research & Referral), New Delhi, 25-27 February 2011.

iv) Ms. P. Vijetha, Lecturer in Special Education, was awarded M.Phil (Education) degree from Sri Venkateshwara University, Thirupathi in February 2011.

**IV. Distinguished Visitors**

The institute attracted a large number of distinguished scholars in the field and eminent personalities in public life both from India and abroad, who visited various departments during the year under review.

A few among them are given in table 24.

Table 24: Distinguished Visitors.

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