

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 Institute, namely Audiology, 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.

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.



Dr. S. R. Savithri
Director

AIISH

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 hearing screening 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 Otolaryngologists 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 30th 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.

AIISH

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 classes were conducted through video conferencing. Table 1 shows the details of the programs.

New Academic Program: A new program titled 'Post-Graduate Diploma in Neuro-audiology' 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

Table 1: Academic Programs Offered.

Sl.No.	Name of the program	Duration	No. of seats available
1.	Diploma (HA & ET)	1 year	25
2.	DTY(DHH)	1 year	20
3.	DHLS	1 year	300*
4.	B.Sc. (Sp. & Hg.)	4 years	62
5.	B.S.Ed. (Hearing Impairment)	1 year	20
6.	PGDFSST	1 year	10
7.	PGDCLSLP	1 year	10
8.	PGDNA	1 year	10
9.	M.Sc. (Speech-Language Pathology)	2 years	36
10.	M.Sc. (Audiology)	2 years	36
11.	M.S.Ed. (Hearing Impairment)	1 year	20
12.	Ph.D. (Audiology)	3 years	4
13.	Ph.D. (Speech-Language Pathology)	3 years	4
			(backlog-3)
14.	Post Doctoral Program	2 years	2
Total			562

*25 each in 12 centres

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.

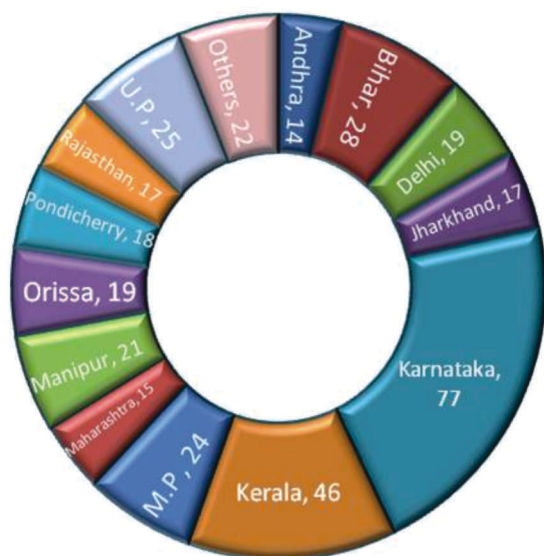


Table 2: Student Intake.

Sl. No	Name of the program	No. of intake
1.	Diploma (HA & ET)	4
2.	DTY(DHH)	8
3.	DHLS	
	AIISH, Mysore	6
	JIPMER, Puducherry	18
	RIMS, Imphal	17
	AIIPMR, Mumbai	14
	RML, New Delhi	14
	IGMC, Shimla	4
	RIMS, Ranchi	14
	SRBMC, Cuttack	18
	JNMC&H, Ajmer	13
	CSMMC, Lucknow	21
	NSBC, Jabalpur	23
	JNMC&H, Bhagalpur	25
4.	B.Sc. (Sp. & Hg.)	61
5.	B.S.Ed. (Hearing Impairment)	3
6.	PGDFSST	4
7.	PGDCLSLP	3
8.	PGDNA	8
9.	M.Sc. (Speech-Language Pathology)	36
10.	M.Sc. (Audiology)	36
11.	M.S.Ed. (Hearing Impairment)	3
12.	Ph.D. (Audiology)	2
13.	Ph.D. (Speech-Language Pathology)	7
14.	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 Program	No. of Students
1.	DHLS	187*
2.	DHA&ET	4
3.	DTY(DHH)	8
4.	First Year B.Sc. (Sp. & Hg.)	61
5.	Second Year B.Sc. (Sp. & Hg.)	62
6.	Third Year B.Sc. (Sp. & Hg.)	46
7.	Interns	36
8.	First Year M.Sc. (Audiology)	36
9.	Second Year M.Sc. (Audiology)	36
10.	First Year M.Sc. (SLP)	36
11.	Second Year M.Sc. (SLP)	35
12.	B.S.Ed	3
13.	M.S.Ed	3
14.	PGDCLSLP	3
15.	PGDFSST	4
16.	PGDNA	8
17.	JRF	17
18.	Post Doctoral Fellowship	1
Total		586

*Total number of students in 12 centres.

III. Academic Awards

The institute achieved spectacular results in the final examinations conducted last year with 100 percent pass in DHA & ET, DTY(DHH), 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.

Sl. No	Name of the Program	No of Students appeared	Overall pass	Percentage
1	DHA & ET	4	4	100
2	DTY(DHH)	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-SLP	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 Program	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. (1 st and 2 nd year)	14000.00 + HRA
10	Ph. D. (3 rd 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 areas 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 organizations 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
1.	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
2.	Ms. Rajashree Sreerangarajan, Speech Language Pathologist, Palo Alto, California, USA.	Pragmatic intervention : Application in autism spectrum disorders.	12-08-10
3.	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
4.	Dr. D.S. Guru, Associate Professor, Dept. of Computer Science, University of Mysore, Mysore.	Choice based credit scheme (CBCS)	20-10-10
5.	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
6.	Dr. M D. Ravi, Professor of Paediatrics & Vice - Principal (Clinical), JSS Medical College, Mysore.	Development of the auditory system.	16-12-10
7.	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
8.	Mr. Apurv Kumar, Clinical Specialist, Cochlear, Bangalore.	Cochlear implant candidacy: Issues and challenges	17-12-10
9.	Mr. Milind Sonawane, Speech - Language Therapist, Ireland.	Assessment and intervention of autism spectrum disorders for caregivers.	30-12-10
10.	Dr.G.N. Rangamani, Professor, St. Cloud State University, U.S.A.	Student assessment procedures	27-01-11
11.	Dr. M.V. Kirtane, Professor Emeritus and ENT Consultant, Hinduja Hospital, Mumbai.	Evaluation of vestibular dysfunction: techniques and interpretation.	29-01-11
12.	Dr. Pranasha Rao, Senior Speech Language Pathologist and Audiologist, Bangalore.	Alternate management techniques of vestibular disorders	30-01-11
13.	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.

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.

X. Workshops/Seminars/Conferences

In addition to the in-house training 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.

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.

- i) Extramurally Funded Research
- ii) Intramurally Funded Research

Extramurally funded research projects are 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:

- a) *Issues and strategies for development of human resources for deafness prevention, identification and management.* ₹ 2,00,000 project work under the supervision of Dr. Vijayalakshmi Basavaraj, Ex - Director and Dr. Manjula P, Professor in Audiology, sponsored by World Health Organisation.
- b) *Design and development of speech enhancer.* ₹ 2,00,000 project work under the supervision of Sri Ajish K. Abraham, Reader in Electronics, sponsored by the Society for Biomedical Technology.
- c) *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.
- d) *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:

- a) *Impact evaluation of training courses in rehabilitation and special education.* ₹ 2,20,000 project work under the supervision of Dr. Vijayalakshmi Basavaraj, Ex-Director and Dr. S. Venkatesan, Professor in Clinical Psychology sponsored by the Rehabilitation Council of India, Ministry of Social Justice & Empowerment, Government of India.
- b) *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.
- c) *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.
- d) *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:

- a) *Development of consumer satisfaction inventory.* ₹ 2,00,000 project work under the supervision of Dr. Y.V.Geetha, Professor in Speech-Language Sciences.
- b) *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:

- a) *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.
- b) *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.

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 reports for evaluation and 29 others were pursuing their Ph.D. Also, one student was pursuing post-doctoral research.

Postgraduate Research

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

In addition to the postgraduate research conducted by the students of the institute, facilities and guidance are being provided for carrying out dissertation works to the students 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 Presentation

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 *Coming 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.* Joint International 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.* Joint International 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*. Joint International 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*. Joint International 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.
6. Basavaraj V. *Role of newborn hearing screening*. 6th South Zone and 28th Karnataka State ENT Conference. Mysore, 22 October 2010.
7. Basavaraj V. (2011). *Developing communication skills in persons with communication disorders*. National Conference on *IT for persons with disabilities*. Department of IT, BT and S&T, Government of Karnataka, Bangalore, 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.

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.
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. Nandeesh, 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 *Pediatric Hearing: Assessment and Rehabilitation*. All India Institute of Speech & Hearing, Mysore, 16-17 December 2010.
23. Pushpavathi M & Gopisankar. *Nasalance value for rainbow and zoo passage of non native English speakers*. 9th Annual Conference of Indian Society of Cleft Lip, Palate and Craniofacial Anomalies. All India Institute of Medical Sciences, New Delhi, 24 April 2010.
24. Pushpavathi M & Indu Thammaiah. *Early intervention module for children with cleft palate*. 10th Annual Conference of Indian Society of Cleft Lip, Palate and Craniofacial Anomalies. Chennai, 28-30 January 2011.
25. Pushpavathi M *Prevention of voice problems and maintenance of healthy voice*. National Workshop on *Voice Assessment and Management*. 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 learning 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 staffs 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, V4. (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, V.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 on 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 *Hearing 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 Neuropsychological 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.

Name	Journal / book
Dr. Basavaraj V	(i) Journal of All India Institute of Speech and Hearing.
	(ii) Student research at AIISH, 2009-10.
Dr. Malar D	(i) Compiler for Special Education dissertation articles for Student research at AIISH, 2009-10.
Dr. Manjula P	(i) Journal of All India Institute of Speech and Hearing.
Dr. Prema K. S	(i) Sensitivity training on academic problems in primary school children enrolled under SSA in Karnataka-Instructor Manual.
Dr. Sandeep M	(i) Compiler for Audiology dissertation articles for Student research at AIISH, 2009-10.

- Dr. Savithri S. R
- (i) Proceedings of the National Workshop on Professional Voice: Assessment and Management. AIISH, Mysore, 2010.
 - (ii) Journal of the Acoustical Society of India.
 - (iii) Journal of All India Institute of Speech and Hearing.
 - (iv) Train your child – Level 1.
- Dr. Shyamala K.C
- (i) Asia Pacific Journal of Speech, language and Hearing.
 - (ii) Journal of Neurolinguistics.
 - (iii) Journal of All India Institute of Speech and Hearing.
 - (iv) Journal of Indian Speech Language and Hearing Association.
- Dr. Swapna N
- (i) Compiler for Speech – Language Pathology dissertation articles for Student Research at AIISH, 2009-10.
- Dr. Yathiraj A
- (i) Journal of All India Institute of Speech and Hearing.
 - (ii) Block 1: Hearing and auditory processes.
Block 3: Language.
Block 4: The speech process and components of speech &
Block 5: Speech teaching of Aural rehabilitation of children with hearing impairment. Self learning material published by IGNOU.
- 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.
 - Project 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.

VIII. Peer-Reviewing

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

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.

- Research proposal titled *Assessment of auditory working memory in normal hearing and hearing impaired children*. Submitted by Mr. 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 by Ms. 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. Written by 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.

Clinical Services

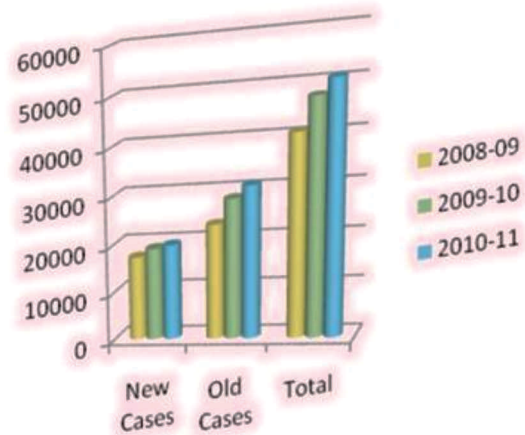
The institute offers a wide variety of clinical services to persons with communication disorders in the country. Clinical activities of the Institute can be broadly categorized as: (a) General Clinical Services (b) Specialized Clinical Services (c) Clinical Outreach Services (d) Clinical Electronic Services 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 2: 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: Disorder-wise Distribution of Diagnostic Evaluation in OPD- Speech/ Language.

Disorders	Language Disorders			Voice Disorders			Fluency Disorders			Articulation Disorders			Multiple Disorders			Normal			Total
	C	A	G	C	A	G	C	A	G	C	A	G	C	A	G	C	A	G	
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

Table 9: Therapeutic Details of Speech and Language Disorders.

Disorders	Language Disorders			Voice Disorders			Fluency Disorders			Articulation Disorders			Multiple			Total
	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	
Disorder wise	4733			153			246			231			923			6286
Over all	6286															

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.

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.

Figure 3: Month-wise Hearing Evaluation.

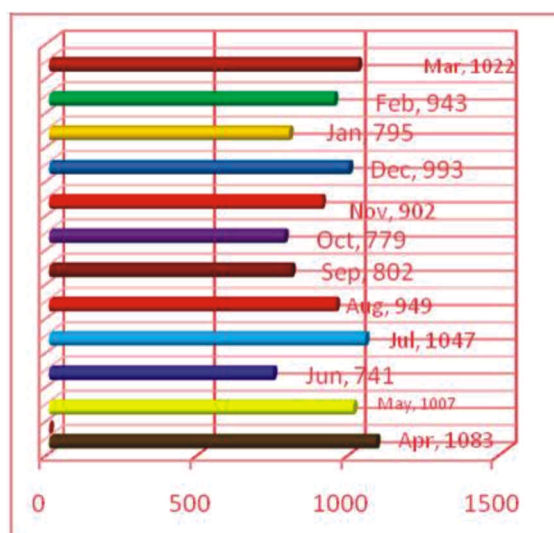


Table 10: Hearing Evaluation and Diagnosis.

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
<input type="checkbox"/> Body level	3740
- ADIP	3569
- Purchased	171
<input type="checkbox"/> Analogue BTE	23
<input type="checkbox"/> Digital BTE	1195
<input type="checkbox"/> Trimmer Digital BTE	102
<input type="checkbox"/> Digital ITC	49
<input type="checkbox"/> Digital CIC	9
No. of clients recommended	1922
<input type="checkbox"/> Auditory training	1127
<input type="checkbox"/> 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
	6431	4555	5494	3267	2497	1570	2061	1351
Total	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.

Category	No. of Cases	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 / hypercucis	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: Paediatric, 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. The detailed statistics of educational-cum-clinical services provided to the children with communication disorders, are in table 18.

Table 18: Preschool Services.

Nature of Service	Groups	Clients	Sessions
Parent Infant Programme	-	35	131
Preschool Parent Empowerment Programme			
	Kannada (MR & Autism)	120	182
	Kannada (HL)	128	187
	Malayalam (MR & Autism)	115	122
	Malayalam (HL)	96	123
	English HL & MR	26	109
	Hindi HL & MR	24	109
	Total	509	832
Preschool Training for Children with Communication Disorders			
	Autism	28	2869
	MR	76	8222
	HL	119	14050
	Total	223	25141
Children with Multiple Special Needs			
	HL with Autism	38	
	HL with CP	16	
	HL with MR	29	
	MR with Autism	88	
	MR with CP	109	
	MR with VI	01	
Curricular Support Services (CSS)			
	Kannada	104	847
	Malayalam	16	
	Hindi	20	
	English	24	
	Telugu	15	
Individualized Education Plan (IEP)			
		19	73
Counselling & Guidance			
	Guidance for home training	13	42
	All Services	33	105
Co-Curricular Sessions			
	All Services		200

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
Paediatrician		348
Phonosurgeon		67
Plastic surgeon		149
Prosthodontist		71
Orthodontist		63

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 details of camps conducted in various places are given in table 20.

Table 20: Camp Details.

Month	Place	Date	Clients screened/evaluated	Clients referred to AIISH for follow
Apr	Tarikere, Chikkamagalur district	23/4/2010	351	88
July	Nanjangud, Mysore Dist.	11/7/2010	57	25
	Sulthan Battery	29/7/2010	277	73
	Panamaram	30/7/2010	429	171
Sept	T.Narsipura, Mysore taluk.	29/9/2010	96	30
Dec.	Piriyapatna, Mysore	7/12/2010	67	8
	Meke Daatu, Kanakapura	12/12/2010	94	16
	Hebbal, Mysore	16/12/2010	90	13
Feb	T.Narasipura, Mysore	20/2/2011	84	5
	Hosapet, Bellary	23/2/2011 to 25/2/2011	244	7
Mar	H.D Mysore Kote, &	02/02/2011 & 03/03/2011	582	136
	Tarikere, Chckmagalur district	17/03/2011	316	19
	Devanuru, Chamarajanagar district	27/03/2011	159	9
Total			2846	600

The cumulative statistics of various clinical services of POCD are given in table 21.

Table 21: POCD Clinical Services.

Category	Clients Evaluated	Clients Referred
Infant Screening	12523	1485
Industrial Screening	132	----
Outreach Centres		
a)Hearing Aid Issued	285	----
b)Ear Moulds	218	---
c)Sp.Hg.therapy	----	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.

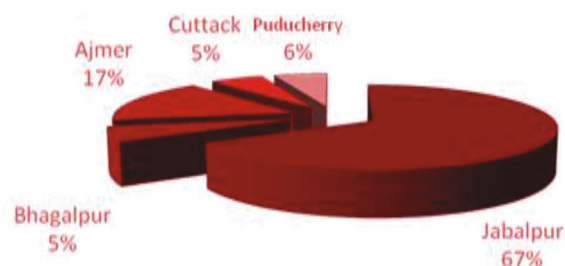
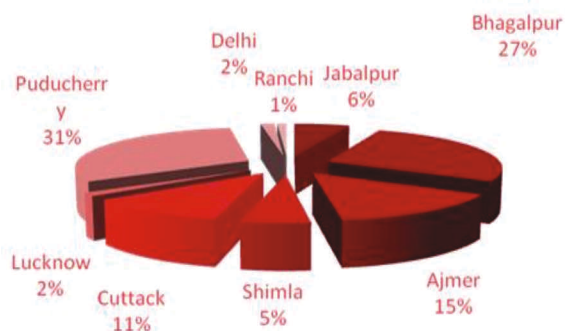


Figure 5 : Tele- Intervention.



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

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.

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 Rs.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.

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 infrastructure 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.

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 *AIISHAawaaz 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 *AIISHAawaaz 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. *Vanamahotsava* 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.

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. Public Lecture Series

The institute continued to deliver its 'monthly public lecture series' program, the objective of which is to create awareness among the public regarding various aspects of communication disorders. During the program, experts in the field delivered one-hour lecture. The details of the lectures delivered last year are given in table 23.

Table 23: Public Lecture Series.

Sl. No.	Date	Topic	Resource person
1.	24.04.10	Identification of hearing loss in school going children	Dr. Sandeep M Lecturer in Audiology Department of Audiology, AIISH.
2.	29.05.10	Physiotherapeutic aspects in communication disorders	Mr. Siddesh N.S Physiotherapist Department of Clinical Services, AIISH.
3.	26.06.10	Inclusive education for children with hearing impairment	Dr. Malar G Reader in Special Education Department of Special Education, AIISH.
4.	31.07.10	Early identification and intervention of hearing impairment	Ms. Geetha C Lecturer in Audiology Department of Audiology, AIISH.
5.	28.08.10	Stuttering in children	Dr. Y.V. Geetha Prof. & Head Department of Speech - Language Sciences, AIISH.
6.	25.09.10	Hearing aids: Care & maintenance	Mr. Ajish Abraham Reader & Head, Department of Electronics and Dr. K. Rajalakshmi, Reader in Audiology & Head Department of Material Development, AIISH.

7.	30.10.10	Augmentative and alternative communication (AAC)	Dr. R Manjula Professor in Speech Pathology and Head, POCD, AIISH.
8.	27.11.10	Effect of cleft lip and cleft palate on speech and language	Dr. M Pushpavathi Reader & Head, Department of Speech - Language PATHology, AIISH.
9.	25.12.10	Communication disorders in psychiatric conditions	Mr. Sunil Kumar Junior Research Fellow Department of Speech Language Pathology, AIISH.
10.	29.01.11	Voice and voice care	Mr. Jayakumar T Lecturer in Speech Sciences Department of Speech Language Sciences, AIISH.
11.	26.02.11	Management of voice in throat cancer patients	Dr. Santosh M Reader in Speech Sciences Department of Speech Language Sciences, AIISH.
12.	26.03.11	Influence of high risk factors on hearing	Mr. Sharath Kumar K.S Research Assistant Department of Audiology, AIISH.

III. 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

Name	Designation	Date of Visit
Dr. Sivaratnamma L. Vaya	Director, Institute of Behavior Sciences and Directorate of Forensic Sciences, Gandhi Nagar, Gujarat.	19.05.2010
Mr. A.K. Sinha	Finance Officer, Ministry of Health & Family Welfare, Government of India.	15.06.2010
Prof. Subba Rao	Director, JIPMER, Pondicherry.	02.07.2010
Ms. Jyothi Murthy	Speech-Language Pathologist and Coordinator, Speech Language Services, TIEE, California, USA.	12.08.2010
Dr. E. V Ramana Reddy	Secretary, Department of Health & Family Welfare, Government of Karnataka.	17.09.2010
Mr. Keshav Desiraju	Additional Secretary, Ministry of Health & Family Welfare, Government of India.	17.09.2010
Dr. Anirban Biswas, M.S	Neurotologist & President, Association of Otolaryngologists of India.	22.10.2010
Dr. Geetha Avadhani	Professor & Head, Department of General Surgery and Medical Superintendent, K.R. Hospital, Mysore.	22.10.2010
Mr. Ahmad Shareef	Manager, Community Based Rehabilitation Center, South Province, Thinadhoo, Republic of Maldives.	19.11.2010
Dr. Giri Hegde	Professor Emeritus, Speech Language Pathology, California State University, Fresno, USA.	11.12.2010
Dr. M. D. Ravi	Professor of Paediatrics & Vice Principal (Clinical), JSS Medical College, Mysore	16.12.2010
Dr. T. K. Parthasarathy	Professor & Chairman, Department of Special education, Southern Illinois University, USA.	16.12.2010
Mr. Apurv Kumar	Clinical Specialist, Cochlear, Bangalore.	17.12.2010
Mr. Dinesh Trivedi	Minister of State for Health & Family Welfare, Government of India.	29.12.2010
Mr. Harsh Gupta	District Commissioner, Mysore.	07.01.2011
Dr. M.V. Kirtane	Professor Emeritus & ENT Consultant, Hinduja Hospital, Mumbai.	30.01.2011
Dr. Suma Bhat	Post-doctoral Researcher, University of Illinois, USA.	28.02.2011
Dr. G.N. Rangamani	Professor, St. Cloud State University, USA.	15.03.2011