**Department of Audiology**

**Research projects with extramural funding**

(a) Title : **Issues and strategies for development of human resources for deafness prevention, identification and management**

(b) Objectives : To identify human resources and strategies for development of for prevention, identification and management of hearing impairment.

(c) Department : -

(d) Principal Investigator : Dr. Vijayalakshmi Basavaraj

 Co-Investigator(s) Prof. Manjula P.

(e) Funding Agency : WHO (WHO-APW)

(f) Amount : Rs.2,00,00/-

(g) Status : Completed

(h) Brief of achievement in 2010-11 : -

(a) Title : **Support for the dissemination and use of hearing aids**

(b) Objectives : To empower hearing aid beneficiaries by developing and distributing support

 material/educational material for individuals with hearing impairment regarding hearing aid use and care, tinnitus, prevention of hearing impairment.

(c) Department : -

(d) Principal Investigator : Director, AIISH

 & Co-Investigator(s) Prof. Manjula P

(e) Funding Agency : WHO (WHO-APW)

(f) Amount : Rs.2,17,000/-

(g) Status : Completed

(h) Brief of achievement in 2010-11 : -

a) Title : **Comparative efficacy of BTEs over body level hearing aids in the development of speech and language among the hearing impaired children**

(b) Objectives : To study merits of BTEs and binaural BTEs over body level and monaural hearing aids

(c) Department : -

(d) Principal Investigator : Prof. M Jayaram

 & Co-Investigator(s) Prof. Manjula P

(e) Funding Agency : DRC (S&T)

(f) Amount : Rs.2,17,000/-

(g) Status : Final report submitted to the Director

(h) Brief of achievement in 2010-11 : -

(a) Title : **Cortical auditory evoked potentials as a measure of central auditory development in children with hearing impairment**

(b) Objectives : (1) **To record CAEP in children with normal hearing and children with hearing impairment. (2) To find out the relationship between auditory development and language development using P1 maturation in children with normal hearing and hearing impairment. (3)** To investigate the effect of age of intervention on P1 maturation in children with hearing impairment. (4) To compare the difference in P1 maturation in normal children, children using hearing aids and cochlear implants.

(c) Department : Audiology

(d) Principal Investigator : Dr. Vijayakumar Narne

 & Co-Investigator(s) Dr. Swapna N; Mr. Jayakumar T

(e) Funding Agency : Department of Science and Technology

(f) Amount : Rs.26,00,000/-

(g) Status : Yet to recruit the staff members

(h) Brief of achievement in 2010-11 : -

1. **Projects with ARF Funds**

(a) Title : **Maturation of auditory processes in children aged 6-11 years**

(b) Objectives : To develop age appropriate norms on children for a battery of tests to identify (C)APD in a group of typically developing children at 2 centers.

(c) Department : Audiology

(d) Principal Investigator & : Dr. Asha Yathiraj

 Co-Investigator(s) Dr. Vanaja C.S

(e) Amount : Rs.3,90,000/-

(f) Status : Data collection for children with suspected (C)APD is under progress at Pune.

(g) Summary of work done in 2010-11 : The speech-in-noise test in English and revised auditory memory and sequencing test in English was developed. Data collection has been completed at Mysore center on typicall y developing children.

(a) Title : **Pre-arithmetic school readiness test for children with hearing impairment**

(b) Objectives : To develop a test for assessing the readiness of children with hearing impairment in pre- arithmetic skills and to assess the utility of the developed tests.

(c) Department : Audiology

(d) Principal Investigator & : Dr. Asha Yathiraj

 Co-Investigator(s) Dr. I P. Gowramma, Dr. G.Malar, Ms.Prithi Nair and Ms. P. Vijetha

(e) Amount : Rs.2,20,000/-

(f) Status : Final test is being designed.

(g) Summary of work done in 2010-11 : Test material was developed and data was collected for 25 typically developing children.

(a) Title : **Prediction of speech identification scores using speech intelligibility index**

(b) Objectives : A multi-centric study to evaluate the effectiveness of speech intelligibility index in prediction of SRS in Hindi, Marathi and Tamil languages

(c) Department : Audiology

(d) Principal Investigator & : Dr. Asha Yathiraj & Dr. Manjula P

 Co-Investigator(s) Dr. Vanaja C.S, Mr. Heramba, G

(e) Amount : Rs.2,25,000/-

(f) Status : In progress

(g)Summary of work done in 2010-11: Speech identification test materials have been recorded in the languages considered in the study. 55% of the data have been collected for all four languages. Of this, 83% has been collected in Kannada, 53% in Tamil, 55% in Hindi and 60% in Marathi. The collected data have been tabulated to estimate the Speech Intelligibility Index (SII) and predict speech recognition scores.

(a) Title : **Efficacy of fine-grained auditory training in individuals with auditory dys-synchrony**

(b) Objectives : To determine the efficacy of fine-grained auditory training among individuals with auditory dys-synchrony in the perception of voiced- voiced stop consonants on behavioural and electrophysiological measures.

(c) Department : Audiology

(d) Principal Investigator & : Dr. Asha Yathiraj

 Co-Investigator(s)

(e) Amount : Rs.3,21,000/-

(f) Status : Data collection is in progress

(g) Summary of work done in 2010-11 : Pre and post therapy assessment and fine-grained auditory training has been completed on 75% of the clients with auditory dys-synchrony. The data collected has been tabulated and the draft version of the report is under preparation.

(a) Title : **Servicing and repair of hearing aids: A profile**

(b) Objectives : To explore various problems encountered by the hearing aid users who have obtained the hearing aids through ADIP scheme and HADS scheme and to quantify/list the problems faced by them when their hearing aids are given for repair. To take up steps or strategies for preventing such problems.

(c) Department : Audiology

(d) Principal Investigator & : Dr. Manjula P

 Co-Investigator(s) Ms. Devi N, Dr. Ramadevi K.J, Ms.Kalai Sevi

(e) Amount : Rs.2,22,000/-

(f) Status : The data were collected for 6 months and the tabulation of data is in progress

(g) Summary of work done in 2010-11 : Data were collected, for the hearing aid users from 23.09.10 to 22.03.11 for approximately 450 users in which EAC measurements was carried out for approximately 400 hearing aids, including pre- and post-repair.

(a) Title : **Audiovisual perception and processing in individuals with auditory dyssynchrony**

(b) Objectives : To study audiovisual speech processing and perception in individuals with auditory dys- synchrony.

(c) Department : Audiology

(d) Principal Investigator & : Dr. Sandeep M

 Co-Investigator(s) Ms. Geetha C

(e) Amount : Rs.3,11,000/-

(f) Status : Ongoing

(g) Summary of work done in 2010-11 : Review of literature is complete. Data collection is in progress. 50% of the target data have been collected.

(a) Title : **Cortical potential as measure of auditory temporal processes**

(b) Objectives : To study relation between cortical potentials, gap detection and speech perception in individuals with auditory neuropathy, cochlear hearing loss and normal hearing.

 Study difference in performance between these groups

(c) Department : Audiology

(d) Principal Investigator & : Dr. Vijayakumar Narne

 Co-Investigator(s) Dr. Animesh Barman, Mr. Sujeet Kumar Sinha

(e) Amount : Rs.3,24,000/-

(f) Status : Statistical analysis and report writing is yet to be completed

(g) Summary of work done in 2010-11 : Data analysis has to be completed for the groups with cochlear hearing loss and normal hearing

(a) Title : **Protocol for vestibular assessment and its efficacy in differential diagnosis of balance disorders**

(b) Objectives : To develop a protocol for differential diagnosis of balance disorders.

 To assess the efficacy of the developed protocol in differential diagnosis of the pathologies related to giddiness.

(c) Department : Audiology

(d) Principal Investigator & : Mr. Niraj Kumar Singh

 Co-Investigator(s) Mr. Sujeet Kumar Sinha, Dr. Rajeshwari G

(e) Amount : Rs.3,26,000/-

(f) Status : In progress

(g) Summary of work done in 2010-11 : Data collection is in progress. 2/3 portion of the data collection is

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 **Department of Clinical Services**

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| --- | --- | --- | --- |
| **Sl.No** | **Title** | **Investigator/ Coordinator** | **Funding agency** |
|  | Field testing of manual for adult non-fluent Aphasia – Kannada (MANAT-K) | Dr. S.P. GoswamiMs. Jayashree C. Shanbal  | AIISH Research Fund |
|  | Assessment Battery for Children with Learning Disability (ABCLD) | Ms. Jayashree.C. ShanbalDr. S.P. Goswami | AIISH Research Fund |
|  | Prevalence and nature of Epilepsy in children with communication disorders  | Ms. Sangeetha.M & Dr. Y.V. Geetha & Dr. Somnath Vasudev  | AIISH Research Fund |

**Ongoing Projects**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.No** | **Title** | **Investigator/ Coordinator** | **Funding agency** | **Remarks** |
|  | Screening Test for acquisition of Syntax in Hindi: An Adaption of STASK | Dr. Vijayalaksmi BasavarajDr. S.P. GoswamiMr. Brajesh Priyadarshi | AIISH Research Fund | Ongoing |
|  | Field Testing of Manual of Adult Non- Fluent Therapy-in Kannada | Dr. S.P. GoswamiMs. Jayashree C. Shanbal  | AIISH Research Fund | Ongoing |
|  | Assessment battery for children with Language based Learning Disability (ABC-LLD)- Phase II | Ms. Jayashree C. Shanbal Dr. S.P. Goswami | AIISH Research Fund | Ongoing |
|  | Computerized Screening Test for acquisition of Syntax in Hindi (STAS-H) | Mr. Ajish AbrahimDr. Vijayalaksmi BasavarajDr. S.P. GoswamiMr. Brajesh Priyadarshi | AIISH Research Fund | Ongoing |
|  | Screening Test for acquisition of Syntax in Malayalam (STAS-M) | Ms.Preethi Thomas & Dr.S.P.Goswami  | AIISH Research Fund | Ongoing |
|  | Screening Test for acquisition of Syntax in Telgu (STAS-T) | Mr.Gopi Kishore & Dr.S.P.Goswami  | AIISH Research Fund | Ongoing |
|  | Development of Audio-Video Database for communication disorders | Mr. R. Gopi Sankar, Dr.S.P.Goswami, Ms.Preethi Thomas,  | AIISH Research Fund | Ongoing |
|  | Pattern of recovery in children with stuttering  | Dr.Y.V.Geetha & Ms.Sangeetha Mahesh | AIISH Research Fund | Ongoing |
|  | Treatment efficacy using Response Cost in Children with Stuttering | Dr.Y.V.Geetha & Ms.Sangeetha Mahesh | AIISH Research Fund | Ongoing |
|  | Developmental Pattern of Children with Down’s syndrome: An exploratory study (Kannada) - Phase I | Dr.M.Pushpavathi,Ms.Preethi Thomas Dr. Venkatesh.S, Mr. Siddesh & Mr. Jayakaran | AIISH Research Fund | Ongoing |
|  | Audio Visual Resource Manual on Voice Disorders  | Dr.M.Pushpavathi, Dr. Jayanthi Ray, Mr.R.Gopi Sankar, Dr. H. Sundarraju, Dr. Girish Kulkarni | AIISH Research Fund | Ongoing |
|  | Speech Characteristics in Children with Oral Clefts Pre & Post Surgery: A Longitudinal Study  | Dr.M.Pushpavathi, Dr. H.V. Sathish, Mr.R.Gopi Sankar | AIISH Research Fund | Ongoing |

**DEPARTMENT OF CLINICAL PSYCHOLOGY**

1. **RESEARCH ACTIVITIES**
2. **Research Projects**
3. Project with Extramural Funding

|  |  |
| --- | --- |
| Title of the Project | Sensitizing Teachers on Academic Problems in School children in Karnataka |
| Principal Investigator | Dr. S. Venkatesan |
| Project Staff | P.M.Krupakshari(Project Assistant) Sowmya (Steno) |
| Funding Agency | SSA |
| Fund | Rs.14 Lakhs |
| Status | First Phase Completed |
| **Summary:** AIISH Mysore and SSA Karnataka, joined hands to address academic problem in primary school children, by organising “Sensitivity training” to about 1000 IERTs. A dedicated team of resource persons covered various topics related to academic problem, their assessment and remediation through lectures, case history taking, group discussion, individual case presentation etc. Each 12 day program covered 40 participants, every month through 15 batches completed during 2010-11. The program included a course manual in English/Kannada along with in built schemes to evaluate them, the resource persons, participants and program implementation. It is expected that a 2nd phase of this program will be initiated shortly. |

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| --- | --- |
| Title of the Project | “Impact Evaluation of Training Courses in Rehabilitation and Special Education under Rehabilitation Council of India”. |
| Principal Investigator | Dr. Vijayalakshmi Basavaraj and Dr. S. Venkatesan |
| Project Staff | Vasudha K.G. |
| Funding Agency | RCI, Ministry of Social justice & Empowerment, Government of India. |
| Fund | Rs. 2.22 Lakhs |
| Status | Ongoing |
| **Summary:** This study followed a cross sectional group comparison design where by important parameters were evaluated such as:1. Teacher-Pupil Evaluation
2. Process and Outcome Evaluation
3. Temporal or Time Based Evaluation like Baseline, Mid-term and Terminal Evaluation
4. Content Evaluation and
5. Utility Evaluation

Field visits and data collection is completed and data analysis is ongoing. |

1. **Project with ARF Funds**

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| Title of the Project | “Development and Standardization of Autism Behavior Check list for Disability Estimation” (A2E)  |
| Principal Investigator | Dr. S. Venkatesan |
| Project Staff | Shilpa. P.Augustine |
| Fund | Rs.4.85Lakhs |
| Status | Ongoing |
| **Summary:** It is the aim of this project, to identify a specific set of behavioral features that characterize most of the children diagnosed as autism or related conditions; to develop a comprehensive checklist to enable their diagnosis and certification. Data collection for pilot study, pilot data collected from 26 cases of children with communication disorders by method of observation, interviewing parents, use of checklist is in progress. A departmental presentation and review about project was done. |

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| --- | --- |
| Title of the Project | Process evaluation of DHLS Program conducted through Actual vis-à-vis Virtual Modes |
| Principal Investigators | Dr. Vijayalakshmi Basavaraj and Dr. S. Venkatesan |
| Project staff | Mr.Mohammad Rafi |
| Fund | Rs.8.52 lakhs |
| Status | Ongoing |
| **Summary:** this project is in its 3rd phase of extension during this reporting year. As before, the project continues to attempt a process evaluation of the ongoing DHLS program being conducted through actual vis-à-vis virtual mode of instruction at 11 centers and another 10 regular centers across the country. A new dimension added to this project during this reporting year was gathering feedback on demand analysis, details of infrastructure, job attrition and job evaluation etc. Data collection for the ongoing year is completed and analysis is going on. |

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| Title of the Project | Enabling and empowering siblings of children with communication disorders |
| Principal Investigator | Dr. S. Venkatesan |
| Project Staff | Ms. Nimisha Raveendran |
| Fund | Rs.3.19 Lakhs |
| Status | Ongoing |
| **Summary:** This project aims to study the psychosocial correlates of siblings of children with disabilities by using standardized assessment measures and to carryout community initiatives that can help enlighten, enable, encourage and empower siblings as much as their parents or the actual children with handicaps. In the initial stages of project, data has been collected from the normal siblings of disabled children by using semi-structured interview, open ended questions to find out their knowledge, opinion, attitude etc., towards the affected child. It also helps to explore the physical, emotional, social and financial impact on healthy siblings. Another aim of this project is to organize short term sensitivity training program for identified group of healthy siblings from families caring for a person with disability. |

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| --- | --- |
| Title of the Project | “Impact evaluation of government benefits and concession provided to persons with mental retardation belonging to Mysore district” |
| Principal Investigator | Dr. G. Jayaram  |
| Co-Investigator | Dr. Kalyan Kumar, Mr. Raju Mr. Purushotham, and Mr. Prathap Kumar |
| Fund | 3.20 lakhs |
| Status | Ongoing |
| **Summary:** This project aims to undertake an impact evaluation of Monthly Pension Scheme introduced by Govt. of Karnataka for the individuals with mental retardation belonging to Mysore District and to develop appropriate model to enable such evaluations from time to time for such programs in other districts and across the country where scheme is being implemented. The project also aims to study the attitudes of public and functionaries about the implementation of this program in the society. The following tools are finalized for the project:* Socio-demographic data sheet
* Attitude scale towards the benefits and concessions scheme provided to individuals with mental retardation (ASBCS)
* Impact evaluation scheme/ format- almost finalised

With regard to carrying out the project, a letter to DC-Mysore District seeking the permission to carry out the program has been finalized and address of all the beneficiaries are short listed (being used during the survey). |

**Department of Electronics**

1. **RESEARCH ACTIVITIES**
2. Research Projects
3. Projects with Extramural Funding

 (a) Title : Design and Development of

Speech Enhancer.

 (b) Objectives ; To develop a prototype of Speech

Enhancer and conduct field trials

 (c) Department : Electronics

 (d) Principal Investigator : Sri. Ajish K Abraham

 (e) Funding Agency : Society for Biomedical Technology,

 DRDO, Govt. of India

 (f) Amount : Two lakhs

 (g) Status : Completed

 (h) Brief of achievement in 2010-11 : Prototype developed and clinical

trials going on

1. Projects with ARF Funds

(a) Title : Computerized Screening test for

acquisition of syntax in Hindi (STASH) : An Adaption of STASK.

(b) Objectives : To computerize the screening

test for acquisition of syntax in

Hindi.

(c)Department : Electronics

(d) Principal Investigator : Sri. Ajish K Abraham

 & Co-investigators : Dr. S.P Goswamy, Sri. Brijesh

Priyadarshi.

e) Amount ; 5.8 lakhs

(f) Status : Ongoing

(g) Summary of work done in 2010-11 : Basic modality for computerization has

been finalized, software development in process.

1. Other Research Projects

**Project work of B.Tech. students from Vishweshwaraiah Technological University**

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| --- | --- | --- | --- | --- | --- | --- |
| Title  | Objectives  | Guide & Investigator(s)  | Department | Amt. | Status  | Summary of work done in 2010-11 |
| Hearing screening device | Design & Development | Ajish K Abraham & Ms. Arpitha H, Ms. Pallavi A, Shalini S, Vineetha Menon | Electronics & Communication Department NIE, Mysore | - | Complete | Prototype developed |
| Speech formants analysis | Design & Development | Ajish K Abraham & Pavan Kumar, Santhosh M.A.,Sathish kumar SSravan Kumar M | Electronics & Communication Department SJCE, Mysore | - | Complete | Prototype developed |
| Word counter for Human speech | Design & Development | Ajish K Abraham & Pavan kumar,Bhuvangowda,Nayan Singh,Manjesh H.S. | Electronics & Communication Department SJCE, Mysore | - | Complete | Prototype developed |
| Voice activated switch | Design & Development | Ajish K Abraham & Archana KV,Bhavana S,Deepika B, Shivashankari C | Electronics & Communication Department SJCE, Mysore | - | Complete | Prototype developed |
| Server based curator for museums | Design & Development | Ajish K Abraham & Rahul Salecha,Ravindra Babu, Ritesh MS, Sharan K | Electronics & Communication Department SJCE, Mysore | - | Complete | Prototype developed |

**SLP**

**Research Activities**

1. **Research Projects:**
2. **Projects with Extramural Funding:**

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| --- | --- |
| **Title** |  **Language and Brain organization in Normative Multilingualism** |
| **Objectives** | The aim of the project is to investigate code switching between languages among bilinguals and among multilinguals. Language proficiency and Code switching would be examined separately in bilinguals and in multilinguals |
| **Principal Investigator** | Dr. Shyamala. K.C |
| **Funding Agency** | Department of Science and Technology (DST) |
| **Fund** | 12, 84,000 for 3 years from 2009 |
| **Status** | Ongoing  |
| **Brief Achievement in 2010-11** | Developed language proficiency questionnaire – Data collected for 20-40 years – bilinguals and multilingual – Data collection is going on for 41-69 years bilingual/multilingual. Analysis for 20-40 years age group and writing review of literature is in progress. |

1. **Projects with ARF Funding:**

**Dr. M. Pushpavathi:**

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| --- | --- |
| **Title** | Effect of Palatal Obturator on Speech |
| **Objectives** | The project is aimed to analyse the speech characteristics with respect to acoustical and perceptual aspects before and after providing different types of speech appliances to clients with repaired/unrepaired maxillofacial anamolies |
| **Department** | Dept. of Speech Language Pathology |
| **Principal Investigator & Co-Investigator** | Dr. M. Pushpavathi, Dr. N. Sreedevi, Dr. Dakshayini.M,  |
| **Amount** | Rs. 4,98,000 |
| **Status** | Ongoing – from October 2010 |
| **Summary of work done in 2010-11** | The documentation of three different cases (an adult with unrepaired cleft, an adult sub mucous cleft and a child with repaired cleft) with respect to audio visual recording of prosthesis preparation and speech analysis is completed. |

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

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| --- | --- |
| **Title** | Speech Characterstics in children with oral cleft – Pre and post surgery a Longitudinal study |
| **Objectives** | The project is aimed to analyse the speech characteristics (articulatory, resonatory and speech intelligibility) in different cases with cleft palate before and after surgery |
| **Department** | Dept. of Speech Language Pathology |
| **Principal Investigator & Co-Investigator** | Dr. M. Pushpavathi, Dr. Sathish.H, Mr. Gopi Sankar |
| **Amount** | Rs. 4,98,000 |
| **Status** | Ongoing from Feb. 2011 |
| **Summary of work done in 2010-11** | Public education material on rehabilitation of cleft lip and palate in Kannada is prepared. The assessment checklist for toddlers with cleft palate is compiled. |

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| --- | --- |
| **Title** | Speech Characterstics in children with oral cleft – Pre and post surgery a Longitudinal study in Malayalam |
| **Objectives** | The project is aimed to analyse the speech characteristics (articulatory, resonatory and speech intelligibility) in different cases with cleft palate before and after surgery |
| **Department** | Dept. of Speech Language Pathology |
| **Principal Investigator & Co-Investigator** | Dr. M. Pushpavathi, Dr. Sherry Peters, Dr. Subramni Iyer |
| **Amount** | Rs. 4,98,000 |
| **Status** | Ongoing  |
| **Summary of work done in 2010-11** | Material for nasometer assessment has been compiled and review of articles have been done |

|  |  |
| --- | --- |
| **Title** | Speech Characterstics in children with oral cleft – Pre and post surgery a Longitudinal study in Telugu |
| **Objectives** | The project is aimed to analyse the speech characteristics (articulatory, resonatory and speech intelligibility) in different cases with cleft palate before and after surgery |
| **Department** | Dept. of Speech Language Pathology |
| **Principal Investigator & Co-Investigator** | Dr. M. Pushpavathi, Dr. Srinivas Ghosla Reddy, Dr. Swati Ravindran |
| **Amount** | Rs. 4,98,000 |
| **Status** | Ongoing  |
| **Summary of work done in 2010-11** | Memorandum of understanding between the Hospitals has been signed. Material for nasometer assessment has been compiled and review of articles have been done |

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

**Dr. K.C. Shyamala:**

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| --- | --- |
| **Title** | **Development and Standardization of Boston Naming Test in bilinguals (Kannada - English and Telugu – English)** |
| **Objectives** | To develop the Boston Naming Test in Different Languages |
| **Department** | **Dept. of Speech Language Pathology** |
| **Principal Investigator** | Dr. Shyamala. K.C |
| **Amount** | Rs.4,06,000.00 |
| **Status** | Completed (2010)  |
| **Summary of the work done 2010-11** | Confrontation naming has long been recognized as one of the most sensitive tasks for identifying and quantifying neurogenic language deficits. The Boston Naming Test (BNT) (Kaplan, Goodglass & Weintraub, 1983) is the single most frequently used test of visual confrontation naming in Western countries. The BNT has been used in the evaluation of patients with focal left and right CVAs, with diffuse brain damage resulting from head injury, anoxia or progressive dementia such as Alzheimer’s disease. The BNT published norms include 84 normal adults (ages 18 – 59) with scores grouped according to those with greater or less than 12 years of education, and 82 aphasic adults with performance divided into 6 severity levels. The BNT has been translated and standardized in many languages like Spanish, and has been used with patients with aphasia, dementia, etc.To date, this BNT has not been standardized in any of the Indian languages. Hence a first step toward accurate interpretation of naming performance of Indian clinical populations was to develop BNT in Kannada and Telugu and obtain normative data on healthy adults who are proficient in Kannada and Telugu languages. Both goals were accomplished.  |

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| --- | --- |
| **Title** | **Cognitive Linguistic Deficits in Aphasia** |
| **Objectives** | The aim of the project is to investigate cognitive linguistic deficits in Individuals with aphasia |
| **Department** | **Dept. of Speech Language Pathology** |
| **Principal Investigator** | Dr. Shyamala. K.C |
| **Fund** | 2,62,000.00 |
| **Status** | Completed (2010) |
| **Summary of the work done 2010-11** | . The debate on whether cognition and language are related and whether cognition precedes language or vice versa still continues .It has been observed that there is considerable overlap in the cognitive and language domain. Several studies have been done in the area of cognitive deficits in aphasia on various cognitive domains such as attention, memory, orientation, scanning, visual neglect, reasoning/problem solving and integration. But none of the studies has given in depth information of those deficits on language skills in individuals with aphasia in our context. 20 normal healthy adult individuals and 20 matched right handed individuals with aphasia following left hemisphere damage are assessed for various cognitive domains using Western aphasia Battery (WAB), Addenbrooke’s cognitive Examination-revised (ACE-R) and Cognitive Linguistic Assessment protocol for adults (CLAP) as a part of cognitive linguistic assessment protocol. The subjects were analyzed for various cognitive linguistic deficits present. The results revealed that individuals with Aphasia showed deficits in most of the cognitive domains with decreasing order of affected cognitive skills with decrease in the severity. |

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| **Title** | **Genotyping and a Genetic association study in Autism** |
| **Objectives** | The aim of the project is to investigate the genotyping and genetic association in children with autism as the number and role of genes playing in Autism are still not clear |
| **Department** | **Dept. of Speech Language Pathology** |
| **Principal Investigator** | Dr. Shyamala. K.C |
| **Fund** | 5,72,000.00 |
| **Status** | ongoing  |
| **Summary of the work done 2010-11** | Data collection in progress. Review of literature completed. Blood samples collected for 140 patients including 50 Autistic cases, parents and siblingsDNA extraction is done with 120 samples and stored in 80 CPrimer designed for 5 SNPs which are selected for Genogyping |

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| --- | --- |
| **Title** | **Language performance of Kannada – English (K-E) bilingual individuals with Dementia** |
| **Objectives** | Hence, the primary purpose of the current project is to develop & establish preliminary normative data if Dementia Assessment Battery in Kannada & English and to compare the Language performance on Kannada-English bilingual speakers with dementia |
| **Department** | **Dept. of Speech Language Pathology** |
| **Principal Investigator** | Dr. Shyamala. K.C |
| **Fund** | 5,92,000.00 |
| **Status** | ongoing  |
| **Summary of the work done 2010-11** | Introduction and review completed. Data collection of 4 geriatrics and 29 adults completed |

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| **Title** | **Development and standardization of Noun Verb picture Battery in Kannada and Malayalam** |
| **Objectives** | The objective of the project is to provide a resource for the clinical practice in speech language pathology and also for the research in aphasiology, neuro- and psycholinguistic disciplines. |
| **Department** | **Dept. of Speech Language Pathology** |
| **Principal Investigator & Co-invesigator(s)** | Mr. Gopee Krishnan, Mrs. Shivani Tiwari, Dr. Rajashekar. B, Dr. Shyamala. K.C |
| **Fund** | 5,92,000.00 |
| **Status** | ongoing  |
| **Summary of the work done 2010-11** | Review and data collection completed. Analysis is in progress. |

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| **Title** | **Reading Acquisition in children learning two distinct orthographies Malayalam and English** |
| **Objectives** | the present study aims at investigating reading acquisition in children learning to read two distinct orthographies, Malayalam and English simultaneously |
| **Department** | **Dept. of Speech Language Pathology** |
| **Principal Investigator Co- Investigators** | Mrs. Shivani Tiwari, Dr. Shyamala. K.C, Dr. Rajashekar. B, Mr. Gopee Krishnan |
| **Fund** | 3,16,000.00 |
| **Status** | ongoing  |
| **Summary of the work done 2010-11** | Review & Data collection completed. Analysis is in progress. |

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| **Title** | **Standardization of Western Aphasia Battery (WAB) in Telugu Monolinguals and Telugu –English (T-E) Bilinguals.** |
| **Objectives** |  To standardize WAB in Telugu language |
| **Department** | **Dept. of Speech Language Pathology** |
| **Principal Investigator** | Dr.Shyamala.K.C |
| **Fund** | 3,16,000.00 |
| **Status** | ongoing  |
| **Summary of the work done 2010-11** | Western Aphasia Battery (Kertesz, 1979) is considered as one of the important assessment tools and is most frequentlyused in clinics all over India for the assessment of individuals with aphasia and allied disorders. It is a good test for clinical utility but the results are not valid unless we have our own norms. We are presently following western norms and there are no Indian norms for bilingual population involving languages like Telugu obtained so far. Such a test would help in identifying the aphasic, describing the aphasia and classifying it into various subgroups not only for the purpose of diagnosis but also for planning therapy and estimating prognosis. Such a test would be very useful for speech and language therapists dealing with Telugu aphasic population, since one of the primary concern of speech language pathologists is to assess and improve the communication skills in individuals with aphasia.  |

**Dr. R. Manjula:**

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

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

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| **Title** | A study of motor control in persons with mild and severe stuttering under conditions of motor stress |
| **Objectives** | To analyze and compare the articulatory patterns for bilabial utterances of persons with stuttering and control normal subjects using Articulograph AG 500  |
| **Department** | Dept. of Speech-Language Pathology |
| **Principal Investigator & Co-Investigator** | Dr. R. Manjula &Dr. H. Venkatagiri |
| **Amount** | 6,02,000 lakhs |
| **Status** | Ongoing |
| **Summary of work done in 2010-11** | Data collection and analysis is in progress. |

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

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

**Mr. Brajesh Priyadarshi:**

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| **Title** | Screening Test for acquisition of Syntax in Hindi : An Adaption of STASK |
| **Objectives** | To develop Screening Test for acquisition of Syntax in Hindi |
| **Department** | Speech-Language Pathology, AIISH |
| **Principal Investigator & Co-Investigator** | Dr. Vijayalakshmi Basavaraj (Principal Investigator), Dr. S.P.Goswami, (Co-Investigator), **Brajesh Priyadarshi** (Co-Investigator) |
| **Amount** | 4.57 lakhs. |
| **Status** | Completed |
| **Summary of work done in 2010-11** | Report writing in progress |

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

**Dr. Jayashree.C.Shanbal:**

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| **Title** | Assessment Battery for Children with Learning Disability (ABCLLD)-Phase II |
| **Objectives** | To develop an assessment battery for children with learning disability |
| **Department** | Dept. of Speech Language Pathology |
| **Principal Investigator & Co-Investigator** | Dr. Jayashree. C. Shanbal, PIDr. S.P. Goswami, Co-PI |
| **Amount** | Rs. 5.77 lakhs |
| **Status** | Data collection completed and data analysis is in progress |
| **Summary of work done in 2010-11** | Test material was developed with the help of SLPs. Schools were surveyed for data collection. The material was administered on a pilot data. The final test material was finalized. The test material was administered on participants from different schools in Mysore. Data coding and analysis is in progress. |

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| **Title** | Assessment Battery for Children with Learning Disability (ABCLD)-Phase I |
| **Objectives** | To develop an screening tool for children with learning disability |
| **Department** | Dept. of Speech Language Pathology |
| **Principal Investigator & Co-Investigator** | Dr. Jayashree. C. Shanbal, PIDr. S.P. Goswami, Co-PI |
| **Amount** | Rs. 5.71 lakhs |
| **Status** | Received review report of the submitted project report |
| **Summary of work done in 2010-11** | Test material was developed with the help of SLPs. Schools were surveyed for data collection. The material was administered on a pilot data. The final test material was finalized. The test material was administered on participants from different schools in Mysore. Data coding and analysis was done. Report was prepared on the findings of the study and submitted for reviewing. The report was reviewed with corrections. |

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| **Title** | Field Testing of Manual of Adult Non- Fluent Therapy-in Kannada |
| **Objectives** | To field test Manual of Adult Non- Fluent Therapy-in Kannada |
| **Department** | Clinical Services |
| **Principal Investigator & Co-Investigator** | Dr. S.P. Goswami & Dr. Jayashree C. Shanbal |
| **Amount** | Rs. 5.71 lakhs |
| **Status** | Completed and submitted |
| **Summary of work done in 2010-11** | Manual of Adult Non- Fluent Therapy-in Kannada was field tested on individuals with Aphasia (Broca’s aphasia, TMA and Global aphasia).  |

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| --- | --- |
| **Title** | Field Testing of Manual of Adult Fluent Therapy-in Kannada |
| **Objectives** | To field test Manual of Adult Fluent Therapy-in Kannada |
| **Department** | Clinical Services |
| **Principal Investigator & Co-Investigator** | Dr. S.P. Goswami & Dr. Jayashree C. Shanbal |
| **Amount** | Rs. 5.77 lakhs |
| **Status** | Data collection in progress |
| **Summary of work done in 2010-11** | Manual of Adult Fluent Therapy-in Kannada was field tested on individuals with fluent aphasia.  |

**Dr. N. Swapna:**

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| **Title** | “Digital tutorial for pre-reading skill (A supplement to the intervention module for preschool children with communication disorders)” |
| **Objectives** | 1. To develop a digital tutorial on the activities to enhance pre-reading skill as detailed in the intervention module for preschool children with communication disorders.
2. To evaluate the efficacy of the digital tutorial in training the special educators, speech-language pathologists and parents/caregivers in imparting the pre-reading skill in children with special needs in the age group of 3-6 years.
 |
| **Department** | Dept. of Speech-Language Pathology |
| **Principal Investigator & Co-Investigator** | Dr. Swapna.N -PIDr.K.S. Prema -PIDr. Y.V Geetha - Co PI |
| **Amount** | 5,41,000 |
| **Status** | Ongoing |
| **Summary of work done in 2010-11** | Two project staff (one research officer with MSc (Sp & hg) and one research assistant with MSEd) were appointed from 1st Oct 2010 for the project. Script writing for the pre-reading skill tutorial (phase I and II) consisting of 150 activities has been accomplished and the video recording of these activities is underway |

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| **Title** | “Word and Nonword repetition test for children in Kannada” |
| **Objectives** | To develop a word and a nonword repetition test in Kannada language (along the lines of NRT and PSRep) for children in the age group of 3-6 years.  |
| **Department** | Dept. of Speech Language Pathology |
| **Principal Investigator & Co-Investigator** | Dr. Swapna.N -PI |
| **Amount** | 3,06,000 |
| **Status** | Ongoing |
| **Summary of work done in 2010-11** | One project staff (research officer with MSc (Sp & hg) has been appointed from 13th Sept. 2010. Stimuli (words and nonwords) have been prepared and data collection has been carried out. Analysis of the subject’s responses is underway.  |

**Ms. Vasantha Lakshmi M S**

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| **Title** | Process Evaluation of DHLS program conducted through Actual Vis-à-vis virtual mode |
| **Objectives** | To undertake a process evaluation of DHLS program conducted through virtual mode of instruction at various centers across the country |
| **Department** | Speech-Language Pathology |
| **Principal Investigator,** **Chief Investigator** **& Co-Investigator** | Dr.Vijayalakshmi BasavarajProf. S.VenkatesanMs.Vasantha Lakshmi M S |
| **Amount** | Rs. 1,96,000  |
| **Status** | Ongoing (Commenced in 2007-08 and extended) |
| **Summary of work done in 2010-11** | Report prepared for the year 2009-10 and 2010-11 data collected  |

**Dr. V.P. Vandana:**

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| --- | --- |
| **Title** | Adaptation and standardization of Cognitive Linguistic Quick Test in Kannada (CLQT-K): Comparison between monolinguals (Kannada) and bilinguals(Kannada-English) |
| **Objectives** | To adapt and standardize CLQT into Kannada |
| **Department** | Dept. of Speech Language Pathology |
| **Principal Investigator & Co-Investigator** | Dr.Vandana.V.P (PI) and Prof.Shyamala.K.C (Co-PI) |
| **Amount** | 3.4 lakhs |
| **Status** | Ongoing |
| **Summary of work done in 2010-11** | Data collection completed, statistical analysis in progress, introduction first draft corrected |

**Mr. Gopi Kishore:**

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| --- | --- |
| **Title** | 1. Screening Test for Acquisition of Syntax in Telugu (STAS-T): An Adaption of STASK
 |
| **Objectives** | To develop a valid and standardized test for the assessment of syntax in Telugu language |
| **Department** | Department of Speech Language Pathology |
| **Principal Investigator & Co-Investigator** | Mr.P. Gopi KishoreDr. S.P. GoswamiDr. Vijaya Lakshmi Basavaraj |
| **Amount** | **3,01,000/-** |
| **Status** | Ongoing |
| **Summary of work done in 2010-11** | * Stimulus material was prepared and the same was tested for the content validity
* Conducted pilot study on 40 subjects and minor changes were made to the stimulus
* Reviewed related literature
* Data collection is going on.
 |

**SLS**

**Research Activities**

1. **Research Projects:**
2. **Projects with Extramural Funding:**

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

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| **Title** | Cortical auditory evoked potential as a measure of central auditory development in children with hearing impairment |
| **Objectives** | **1. To record P1 CAEP in normal hearing children and children with hearing impairment.****2. To find the relation between auditory development and language development using P1 maturation in normal and children with hearing impairment.**3. To investigate the effect of age of intervention on P1 maturation in children with hearing impairment. 4. To compare the difference in P1 maturation in normal children, children using hearing aids and Cochlear implants.  |
| **Department** | Audiology |
| **Principal Investigator (PI) &** **Co-Investigator (CI)** | Vijaya kumar Narne (PI) Jayakumar T & Swapna. N  |
| **Funding Agency** | Dept. of Science and Technology, Ministry of Science and Technology, New Delhi |
| **Amount** | Rs. 28,37,200 |
| **Status** | to be initiated |
| **Brief of Achievement in 2010-11** | Project approved |

1. **Projects with ARF Funding: a. Completed**

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| **Title** | Development of Consumer Satisfaction Inventory |
| **Objectives** | The objective of the project was to develop an inventory to assess the satisfaction of clients seeking rehabilitation services at AIISH and to evaluate the same on the clients receiving diagnostic, therapeutic and preschool services |
| **Department** | Dept. of Speech-Language Sciences |
| **Principal Investigator &** **Co-Investigator** |  Dr. Y.V. Geetha Dr. N. Swapna Dr. P. ManjulaDr. N. Sreedevi  |
| **Amount** | 2.00 lakhs |
| **Status** | **Completed** |
| **Summary of work done in 2010-11** | **Submitted the project report** |

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

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

|  |  |
| --- | --- |
| **Title** | Prevalence and nature of epilepsy in children with communication disorders |
| **Objectives** | Objectives of the study:* To determine the prevalence of seizures in different subgroups of children with communication disorders
* To determine the age of onset, causes, type of seizure, frequency of occurrence of seizures
* To identify the pattern of inheritance if any
* To classify the seizure disorders causing communication disorders
* To determine the co-morbidity of seizures and the nature of communication disorder
* To classify the seizure disorders causing communication disorders if possible
 |
| **Department** | Dept. of Clinical Services and Dept. of Speech-Language Sciences  |
| **Principal Investigator &** **Co-Investigator** | Ms. Sangeetha M Dr. Y.V. Geetha  |
| **Amount** | 1.28 lakhs |
| **Status** | **Completed** |
| **Summary of work done in 2010-11** | **Submitted the project report** |
|  **Title** | **Development of Test for Assessment of Bilingual Proficiency through Lexical Priming Task** |
| **Objectives** | 1. **To develop a Language Proficiency test for Kannada -English Bilingual adults on the principle of primed LDT.**
2. **To compare the performance of primed lexical decision in each of the Languages of the Bilinguals (Kannada -English).**
3. **To compare performance of participants on self assessment questionnaire and primed LDT.**
4. **To develop a yardstick for quick and objective online measurement of language proficiency.**
 |
| **Department** | **Dept. of Speech Language Sciences**  |
| **Principal Investigator &** **Co-Investigator** | **Dr. K.S. Prema**  |
| **Amount** | **Rs. 2, 58, 000/-** |
| **Status** | **Completed** |
| **Summary of work done in 2010-11** | **Project report completed. Test is digitized for online accessibility** |
| **Title** | **Phonological Sensitivity Training Kit (PhoST-K) in Kannada** |
| **Objectives** | 1. **To develop a Language Proficiency test for Kannada -English Bilingual adults on the principle of primed LDT.**
2. **To compare the performance of primed lexical decision in each of the Languages of the Bilinguals (Kannada -English).**
3. **To compare performance of participants on self assessment questionnaire and primed LDT.**
4. **To develop a yardstick for quick and objective online measurement of language proficiency**
 |
| **Department** | **Dept. of Speech Language Sciences**  |
| **Principal Investigator &** **Co-Investigator** | **Dr. K.S. Prema (PI)** |
| **Amount** | **Rs. 4, 64, 000/-** |
| **Status** | **Completed** |
| **Summary of work done in 2010-11** | **Project report completed. PhoST Manual, CD and reference values are available for users.** |

1. **Projects with ARF Funding: a. Ongoing**

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| --- | --- |
| **Title** | Patterns of recovery in CWS |
| **Objectives** | The objectives of the project are to determine with reasonable accuracy the proportion of children who persist in stuttering and those who recovery of their own accord (spontaneous recovery) and to determine the treatment related factors contributing to recovery in CWS and isolating factors that govern or influence persistency and remission |
| **Department** | Dept. of Speech-Language Sciences &Dept. of Clinical Services |
| **Principal Investigator &** **Co-Investigator** | Dr. Y.V. GeethaMs. Sangeetha Mahesh |
| **Amount** | 4.71 lakhs |
| **Status** | Ongoing |
| **Summary of work done in 2010-11** | Appointed new project staff and continued data collection, analysis and writing report |

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| --- | --- |
| **Title** | Variables contributing to Relapses in Individuals With Stuttering |
| **Objectives** | The main objectives of the study include:* To identify the proportion of children and adult PWS who exhibit relapses
* To identify the nature of such relapses such as whether it is complete or partial, probable duration after which relapses occur
* To identify the factors contributing to relapses in the management of PWS such as severity, chronicity of the problem, family history, gender, rate of speech etc.
 |
| **Department** | Speech-Language Sciences & Dept. of Clinical Services |
| **Principal Investigator &** **Co-Investigator** | Dr. Y.V. Geetha Ms. Sangeetha Mahesh Mr. Sachin L.C.  |
| **Amount** | 4.71 lakhs |
| **Status** | Ongoing |
| **Summary of work done in 2010-11** | Appointed new project staff and continued data collection, analysis and writing report |

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| --- | --- |
| **Title** | Treatment efficacy with Response Cost for CWS |
| **Objectives** | The objectives were:To determine the effectiveness of response cost method and its long term effects in subgroups of children with stuttering.To determine the possible client related variables influencing stuttering therapy outcome. |
| **Department** | Dept. of Clinical Services and Speech-Language Sciences  |
| **Principal Investigator &** **Co-Investigator** | Ms. Sangeetha Mahesh Dr. Y.V. Geetha  |
| **Amount** | 4.44 lakhs |
| **Status** | Ongoing |
| **Summary of work done in 2010-11** | Appointed new project staff and continued data collection, analysis and writing report |

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| --- | --- |
| **Title** | Development & Evaluation of curriculum for speech-language transcription |
| **Objectives** | 1. To develop a Language Proficiency test for Kannada -English Bilingual adults on the principle of primed LDT.
2. To compare the performance of primed lexical decision in each of the Languages of the Bilinguals (Kannada -English).
3. To compare performance of participants on self assessment questionnaire and primed LDT.
4. To develop a yardstick for quick and objective online measurement of language proficiency.
 |
| **Department** | Dept. of Speech Language Sciences  |
| **Principal Investigator &** **Co-Investigator** | Dr. K.S. Prema Dr. Peribhaskar Rao University of Tokyo, Japan |
| **Amount** | Rs. 3, 94, 000/- |
| **Status** | Project work completed |
| **Summary of work done in 2010-11** | Project report completed. But, study manuals are edited. Training program with the proposed curriculum to be initiated. |
| **Title** | Digital tutorial for pre reading skill training. (A supplement to the intervention module for preschool children with communication disorders.) |
| **Objectives** | * To develop a video tutorial as a supplement to the manual to enhance pre-reading skills.
* To evaluate the efficacy of the digital tutorial in training the special educators, SLP‘s and Parents/Caregivers in pre reading skills for children with special needs.
 |
| **Department** | Department of Speech Language Pathology |
| **Principal Investigator &** **Co-Investigator** | Dr. N.Swapna & Prof. K.S. Prema Prof. Y.V.Geetha  |
| **Amount** | Rs. 5,41,000 /- |
| **Status** | Ongoing |
| **Summary of work done in 2010-11** | Reviewed literature on Script writing and making of educational videos and prepared the script for 150 activities in the manual. Agency was Identified and finalized the formalities for video recording and 50% of the video recording of the activities has been completed. |

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| --- | --- |
| **Title** | Development of a test for Assessment of Bilingual Proficiency through Lexical Priming task (for Hindi - English Bilingual adults) |
| **Objectives** | 1. To develop a Language Proficiency test for Hindi-English Bilingual adults on the principle of primed LDT.
2. To compare the performance of primed lexical decision in each of the Languages of the Bilinguals (Hindi-English).
3. To assess if the nature of words (concrete vs. abstract) plays a role in defining proficiency, if they are employed in LDT.
4. To compare performance of SLP and Non SLP’s on LDT task.
5. To develop a yardstick for quick and objective measurement of language proficiency.
 |
| **Department** | Dept. of Speech Language Sciences  |
| **Principal Investigator &** **Co-Investigator** | Dr. K.S. Prema  |
| **Amount** | Rs. 5, 94, 000/- |
| **Status** | On going |
| **Summary of work done in 2010-11** | Collection of abstract and concrete words in Hindi, English and Kannada to develop prime and target stimuli for the study. All the words were subjected to verification by experts for familiarity, abstractness and concreteness. The words were programmed using DMDX software. Pilot study was done on 6 adults after which data was collected on 42 participants. Partial analysis of the data was done. In addition, prepared a revised version of Language History Questionnaire (LHQ) suitable for Indian population. Related review of literature was also collected through Journal articles, online resources and Dissertations. |

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

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| **Title** | Computerized Analysis of phonological processes in Malayalam (CAPP-M) |
| **Objectives** | To develop an indigenous computer based software to assess the phonological processes in native Malayalam speaking children |
| **Department** | Speech –Language sciences |
| **Principal Investigator &** **Co-Investigator** | Dr. N Sreedevi  |
| **Amount** | Rs. 4,81,000/- |
| **Status** | On going |
| **Summary of work done in 2010-11** | Data collection and Data Transcription was completed. Data analysis and Review in progress |

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| **Title** | The phonetic characteristics of babbling in Kannada |
| **Objectives** | To study the development of babbling longitudinally in infants  |
| **Department** | Speech –Language sciences |
| **Principal Investigator &** **Co-Investigator** | Dr. N Sreedevi  |
| **Amount** | Rs. 3,80,000/- |
| **Status** | On going |
| **Summary of work done in 2010-11** | Data collection and review ongoing. Editing and analysis of 4 infants completed. |

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| **Title** | Efficacy of multidisciplinary preparatory services of AIISH in mainstreaming children with communication disorders |
| **Objectives** | To survey the impact of multidisciplinary early intervention services offered at AIISH  |
| **Department** | Dept of Special Education |
| **Principal Investigator &** **Co-Investigator** | Dr. Vijayalakshmi Basavaraj Dr. N Sreedevi & Mr. C. B. Suresh  |
| **Amount** | Rs. 3,32,000/- |
| **Status** | On going |
| **Summary of work done in 2010-11** | Data collection completed. Data entry and Review in progress |

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| **Title** | Effect of palatal obturator on speech |
| **Objectives** | To understand the acoustic and perceptual effects of palatal obturator in cleft palate individuals |
| **Department** | Dept of Speech language Pathology & Dept of Speech language Sciences |
| **Principal Investigator &** **Co-Investigator** | Dr. M. Pushpavathi Dr. N Sreedevi  |
| **Amount** | Rs. 4,98,000/- |
| **Status** | On going |
| **Summary of work done in 2010-11** | Data collection completed. Data analysis and review in progress |

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| **Title** | Measurements of vocal doses using ambulatory phonation monitor (APM) in primary school teachers |
| **Objectives** | The aim of the project is to measure and document the three vocal doses. The objectives of the project are to measure (a) time dose, (b) cycle dose and (c) distance dose for daily and weekly vocalization of primary school teachers |
| **Department** | Department of Speech-Language Sciences |
| **Principal Investigator &** **Co-Investigator** | Mr. R. Rajasudhakar Mr. L. C. Sachin  |
| **Amount** | Rs. 3, 23, 000 |
| **Status** | On-going |
| **Summary of work done in 2010-11** | Permission was taken from teachers and school authorities for data collection. Primary school teachers were contacted and described about the objectives of the project, data collection procedures and useful outcome of the project. A pilot study was conducted by recording the speech sample in the field settings of lecturers, and special educators on a work day to comprehend the utility of the device (APM) and problems encountered. Consent letter was prepared for the project. A scientific research article was prepared titled ‘Measurement of time dose in different professions’ and presented in International Symposium on Frontiers of Research on Speech and Music (FRSM-2011) at Bhubaneswar, Orissa. Review of literature and data collection is in progress.  |

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| **Title** | Neuro-physiology correlates of voice onset time in Kannada and Tamil speaking individual using N1 evoked potential |
| **Objectives** | (a) the behavioral response for VOT continuum in native Kannada and Tamil speakers, (b) The neuro-physiological changes for VOT continuum in native Kannada and Tamil speakers, (c) the existence and the reliability of double peak (morphological change in N1) with the change in stimulus property, (d) the behavioral and neuro-physiological response differences in two Dravidian languages (Kannada\* and Tamil$), and (e) the neuro-physiological changes for non-speech stimuli that mimic the speech stimuli.  |
| **Department** | Dept. of Speech language Sciences |
| **Principal Investigator &** **Co-Investigator** | Mr. Jayakumar T Dr. Vijaya Kumar Narne  |
| **Amount** | Rs 3,23,000 |
| **Status** | ongoing |
| **Summary of work done in 2010-11** | Review work and data collection is in progress |

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| **Title** | Auditory processing in person with stuttering: using non-linguistic and linguistic stimulus |
| **Objectives** | To investigate the degree of auditory processing ability in AWS with complex non-linguistic speech like stimulus and simple speech stimulus |
| **Department** | Dept. of Speech language sciences & Dept. of Audiology |
| **Principal Investigator &** **Co-Investigator** | Jayakumar T Dr. Geetha Y V & Dr. Vijaya Kumar Narne  |
| **Amount** | Rs 3,23,000 |
| **Status** | ongoing |
| **Summary of work done in 2010-11** | Review work and data collection is in progress |

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| **Title** | Voice Characteristics of Partial Laryngectomy |
| **Objectives** | To find the acoustic characteristics, perceptual ratings and differences in EGG of Partial Laryngectomy Patients |
| **Department** | Dept. of Speech-Language Sciences |
| **Principal Investigator &** **Co-Investigator** | Mr. Sachin. L. C Mr. Rajasudhakar. R  |
| **Amount** | 3,18,000/- |
| **Status** | Project not started due to unavailability of Speech Language Pathologist Grade 1 |
| **Summary of work done in 2010-11** | **Nil** |

1. **Other Research Projects: Non funded department projects: 4 projects ongoing**

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| Title of the Project | Duration | Principal Investigator  | Work progress |
| Establishment of speech and language database  | Ongoing project | Prema K.S & clinical linguist |  Work being carried out with archive of speech language database for digitization, transcription and tagging.  |
| Development of multilingual lexical corpora | Ongoing project | Prema K.S. & post-doc fellow | Work in progress in Indian and non-Indian languages |
| Establishment of norms on Cognispeed software | Ongoing project | Prema K.S & clinical linguist | Ongoing |
| Survey on ‘SLP’s sensitivity towards language sciences’ | Ongoing project | Prema K.S  | Data on 250 SLPs compiled Report preparation in progress  |

**Department of Special Education**

**Research Activities**

1. **Research Projects:**
2. **Projects with Extramural Funding: NIL**
3. **Projects with ARF Funding:**

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| **Title** | Efficacy of Multidisciplinary Preparatory Services of AIISH in Mainstreaming Children with Communication Disorders |
| **Objectives** | Survey the impact of multidisciplinary early intervention services offered at AIISH on the current school performance of children with different kinds of communication disorders.Analyse the influence of factors like1. Onset, nature and severity of disability
2. Early identification
3. Multidisciplinary nature of early intervention services
4. Intensity/duration of early intervention services
5. Support services during schooling
6. Nature and intensity of parental guidance and empowerment services
7. Nature of family background
8. Nature of school setup &
9. Nature of training of school teachers – on current level of communication skills and school performance of children with communication disorders

Survey the perceptions of mainstream primary school teachers on the difficulties faced by them in managing special needs in regular classrooms/schools and their felt needs for supports. |
| **Department** | Department of Special Education |
| **Principal Investigator & Co-Investigator** | Dr. Vijayalakshmi Basavaraj Dr. G. Malar, Dr. N. Sreedevi & Mr. C.B. Suresh |
| **Amount** | Rs. 3.32 lakhs |
| **Status** | Ongoing |
| **Summary of work done in 2010-11** | The project commenced with appointment of 2 research staff in the month of February 2010. In the ensuing 2 months tools were developed. In the one year between April 2010 and March 2011 maximum possible former clients and mainstream teachers were covered, details of which are as follows:1. Children with communication Disorders = 200 children
2. Karnataka – 81
3. Kerala – 118
4. Others – 1
5. Mainstream educators = 235 educators
6. Kerala – 117
7. Karnataka – 118
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| **Title** | Special Educators Knowledge, Attitude and Practice with Regard to Early Intervention |
| **Objectives** | To assess the knowledge of special educators about the early intervention strategies for children with hearing impairment.To assess the attitude of special educators towards early intervention programmes for children with hearing impairment.To assess the skills possessed by the special educators in handling young children with hearing impairment |
| **Department** | Department of Special Education |
| **Principal Investigator & Co-Investigator** | Ms. Prithi Nair & Dr. I.P. Gowramma |
| **Amount** | Rs. 2.20 lakhs |
| **Status** | Ongoing |
| **Summary of work done in 2010-11** | The project aimed at assessing the knowledge, attitude and skills of special educators with regards to early intervention of children with hearing impairment. Tools like knowledge test, attitude scale and skill observation schedule was developed. Data was collected from 29 special educators teaching young children with hearing impairment. Data collection has been completed using the developed tool. Analysis was done on the basis of qualifications and experience of the teachers. Finalization of the project report is under progress. |

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| **Title** | Attitude of Preservice Educators towards Inclusive Education |
| **Objectives** | To develop an attitude scale for assessing the attitude of pre-service educators and teacher educators towards inclusive education.To administer the attitude scale on pre-service educators and the teacher educators (Pre-data).To develop resource materials to educate pre-service educators and teacher educators on Inclusive Education with the purpose of refining their attitude.To administer the attitude scale on pre-service educators and their teacher educators (Post-data). |
| **Department** | Department of Special Education |
| **Principal Investigator & Co-Investigator** | Ms. Palnaty Vijetha &Ms. Prithi Nair |
| **Amount** | Rs. 2.50 lakhs |
| **Status** | Ongoing |
| **Summary of work done in 2010-11** | The primary aim of the project is to assess the attitudes of pre service educators and their teacher educators towards inclusive education. Pre-data have been collected from 968 teacher trainees in 13 B.Ed colleges in and around Mysore. In order to educate the teacher trainees and their teacher educators, resource materials in the form of brochures and orientation programme have also been prepared and distributed. Post-data have been collected from 291 teacher trainees in 05 B.Ed colleges only which were selected randomly. Analysis of the same has been completed. The project report is being finalized to be submitted. |

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| **Title** | School Readiness Test in Mathematics |
| **Objectives** | To develop a test for assessing the readiness of children with Hearing Impairment in Pre-Arithmetic SkillsTo administer the developed test on typically developing children and develop normsTo administer the test on Pre-school children with hearing impairment to assess the utility of developed test |
| **Department** | Department of Special Education |
| **Principal Investigator & Co-Investigator** | Prof. Asha YathirajDr. I.P. Gowramma, Ms. Prithi Nair, Ms. Palnaty Vijetha & Dr. G. Malar |
| **Amount** | Rs. 2.20 lakhs |
| **Status** | Ongoing |
| **Summary of work done in 2010-11** | The project aims at developing a test for assessing the readiness of children with hearing impairment in pre-arithmetic skills and also to assess the utility of the developed test. Test material has been developed based on the syllabus adopted in preschools. The compiled test material was administered on 25 typically developing children ranging in the age from 4.5-5 years. Based on the findings of the initial pilot study, the final test was designed. Data collection has been completed with the final test being administered on 37 children with hearing impairment and 100 typically developing children ranging in the age from 4.5-6 years. Finalization of the project report is under progress. |

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| **Title** | Effectiveness of FM System in Preschool Groups of Children with Hearing Impairment |
| **Objectives** | To evaluate the effectiveness of FM system in preschool groups of children with Hearing Impairment |
| **Department** | Department of Special Education |
| **Principal Investigator & Co-Investigator** | Director, AIISHMs. Anagha. D |
| **Amount** | Rs. 2.40 lakhs |
| **Status** | Ongoing |
| **Summary of work done in 2010-11** | The project aims at evaluating the effectiveness of FM system in preschool groups of children with Hearing Impairment. Language evaluation was carried out for children with Hearing Impairment during the two semesters based on Computerized Linguistic Protocol for screening (CLiPS). Data has been compiled and report is under progress.  |

1. **Other Research Projects: (Non-funded)**

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| **Title** | Preschool Curriculum for Children with Special Needs: A Proposed Framework |
| **Objectives** | To formulate a curriculum for Children with Special Needs in Preschool |
| **Department** | Department of Special Education |
| **Principal Investigator & Co-Investigator** | Principal Investigator- Prof. K. S. Prema, HOD-Special EducationCo-investigators – Dept. Faculty |
| **Funding Agency** |  Non-funded project |
| **Amount** | --- |
| **Status** | Ongoing  |
| **Summary of work done in 2010-11** | The project aims at formulating a curriculum for Children with Special Needs (CWSN). A framework was proposed to be incorporated in the preschool considering the fact that it shows promising results with improvement in skills like communication in CWSN during their preschool years. A team of professionals was involved and various evaluations like language, cognition and academics was carried out for two semesters. Data is being compiled for the same.  |

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| **Title** | Efficacy of Team approach in Special Educational Services |
| **Objectives** | To evaluate the efficacy of team approach in the special educational services |
| **Department** | Department of Special Education |
| **Principal Investigator & Co-Investigator** | Principal Investigator- Prof. K. S. Prema, HOD-Special EducationCo-investigators-Faculty of the department |
| **Funding Agency** |  Non-funded project |
| **Amount** | --- |
| **Status** | Ongoing  |
| **Summary of work done in 2010-11** | The project aims at evaluating the efficacy of team approach in the special educational services. The team constituted of Speech Language Pathologist, Audiologist, Special Educator, Psychologist and ENT Doctor. Collaboration of these disciplines would help in providing quality interventions to more children with special needs. Children attending preschool were periodically evaluated on Language, academic and cognitive skills. Data has been compiled for the same.  |