**ALL INDIA INSTITUTE OF SPEECH AND HEARING: MYSORE**

**DEPARTMENT OF AUDIOLOGY**

**ANNUAL REPORT 2010-11**

1. **ACADEMIC ACTIVITIES**
2. Long Term Academic Programs / Courses (include all the Programs: UG/PG/Diploma / PhD)
3. Ongoing Programs
4. Name of the Program (UG/PG/Diploma/PhD)

The faculty members are involved in the UG/PG/PG Diploma/Diploma/PhD programs

1. BASLP (I year) – 62 candidates
2. BSc (Speech & Hearing) - II Year – 62 candidates

- III Year – 44 candidates

- Internees – 38 candidates\*

\*AIISH interns (Students of final year bachelors degree) were posted in different set-ups, including the DHLS study centers/NPPCD/other centers, located in Chikmagalur, Gulbarga, Kolar, Pondicherry, Vellore, Shimla, Imphal, Cuttack, Ajmer, Guwahati, Lucknow and Jabalpur. This was done in order provide speech and hearing services in these outreach centers as well as to enrich the experience of the interns. In addition, interns from other training institutions also underwent clinical training in different sections of the department.

1. B.S.Ed. (HI) -3 candidates
2. Masters in Audiology – I M.Sc (Audiology) - 36 candidates

II M.Sc (Audiology) – 36 candidates

1. M.S.Ed. (HI) - 3 candidates
2. PG Diploma in Neuro-Audiology - 8 candidates
3. Diploma in Hearing Aid Repair & Earmold Technology – 4 candidates
4. Diploma in Hearing Language and Speech – 188 candidates

(6 candidates at AIISH)

1. Ph.D in Audiology - Total 12 candidates

(Current year: 3 candidates; Previous years: 9 candidates)

1. Certificate Course for Caregivers of Children with Developmental Disabilities – 11 candidates

The department is also involved in providing theoretical and practical training for the students enrolled in Certificate Course for Caregivers of Children with Developmental Disabilities (C4D2 program).

1. No. of Seats available: NA
2. No. of Intake for each course during the Reporting Year (Gender wise and State wise): NA
3. No. of Students Currently Studying for each course (Semester/Year wise): NA
4. No. of Part-Time Scholars currently working (in case of PhD)

Five faculty/staff members are pursuing their Ph.D. under the guidance of the faculty members of the department. The details are given below in Table 1.

Table 1: *Ph.D. program under progress (inservice)*

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No.** | **Name** | **Topic** | **Guide** |
| 01 | Ms. Devi N  Lecturer | Auditory evoked potential correlation of speech and music in musicians and non-musicians | Dr. Vijayalakshmi Basavaraj  (Till 18.03.11) |
| 02 | Mr. Sujeet Kumar Sinha  Lecturer | Brainstem encoding of speech sounds in the aging auditory system - An electrophysiological study | Dr. Vijayalakshmi Basavaraj  (Till 18.03.11) |
| 03 | Mr. Prawin Kumar  Lecturer | Computer-assisted listening training program for individuals with hearing impairment | Dr. Asha Yathiraj |
| 04 | Ms. Geetha C  Lecturer | Optimization of compression parameters in hearing aids using Aided Audibility Index | Dr. Manjula P |
| 05 | Mr. Sharath Kumar K.S  Clinical Assistant | Effect of noise reduction algorithms (NRA) in hearing aids on acoustic and perceptual measures | Dr. Manjula P |

1. No. of Full-Time Scholars currently working (In case of PhD)

Five full time scholars are currently working for their Ph.D research work. Details are provided in Table 2.

Table 2: *Ph.D. program under progress (Full-time)*

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No.** | **Name** | **Topic** | **Guide** |
| 01 | Mr. M.K. Ganapathy, JRF | Effect of age and noise on acoustic change complex – An electrophysiological study | Dr. Vijayalakshmi Basavaraj  (Till 18 03.11) |
| 02 | Mr. P. M. Jijo, JRF | The effect of enhancement of amplitude and durational cues on speech perception in individuals with auditory neuropathy spectrum disorders | Dr. Asha Yathiraj |
| 03 | Ms. Roshni Pillai,  JRF | Auditory, visual and auditory-visual processing in children with learning disability | Dr. Asha Yathiraj |
| 04 | Mr. N. Hemanth, JRF | The Effect of amplification on objective measure at brainstem and cortical level and behavioural measure in individuals with peripheral hearing impairment | Dr. Manjula P |
| 05 | Mr. M.P. Reuben Jebaraj, JRF | Influence of various hearing aid fitting strategies on speech recognition in individuals with sloping hearing loss | Dr. Manjula P |

1. No. of Students Awarded Degree (Course- wise) & Grade Secured: NA
2. New Academic Programs: This program was launched during the academic year 2010-11. The details are given below in Table 3:

Table 3: *Details of the program launched*

|  |  |  |
| --- | --- | --- |
| **Name of the Program** | **Objectives of the Program** | **No. of Intake during the Reporting Year** |
| Post Graduate Diploma in Neuro-Audiology | 1. To provide specialized training focused on assessment of auditory neural processing and its dysfunctions. 2. To promote interdisciplinary research activities in the area of neuro-audiology | 8 candidates were enrolled |

1. Stipend/Fellowship: NA
2. Name of the Course (b) No. of students received stipend (c) Amount
3. Other Financial Assistance: NA
4. Name of the Course
5. No. of students received financial assistance
6. Purpose of financial assistance
7. Source
8. Amount
9. Short-term Training Programs

The following short-term training programs were offered, as shown in Table 4:

Table 4 : *Details of short-term programs*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Topic / Name of the program** | **Objectives** | **Targeted Audience** | **Number of participants** | **Date** |
| Observed clinical activities of the Department | To sensitize the target population on prevention and identification of hearing impairment | Presentation Secondary School Miltown, County & Kertty, Ireland | 1 candidate | 07.06.10 |
| Observed clinical activities of the Department | C4D2, AIISH, Mysore | 11 candidates | May, June & July 2010 |
| Audiological diagnosis & management | To provide clinical knowledge in evaluation and management of hearing impairment | Univ. of Applied Science, Utrecht, Dutch | 3 internship students (Clinical) | 12-28.07.10 |
| Audiological diagnosis & management | KIMS Hubli | 2 PG students | 18-19.10.10 |
| Audiological diagnosis & management | KIMS Hubli | ENT PG student | 16-21.12.10 |
| Audiological diagnosis & management | MMC&RI, Mysore | ENT PG students | 15-16.12.10 |
| Audiological diagnosis & management | MMC&RI, Mysore | 1 ENT PG student | 04-05.01.11 |
| Audiological diagnosis & management | Medical College, Kolar | 2 ENT PG students | 04-05.01.11 |
| Audiological diagnosis & management | Medical College, Kolar | 2 ENT PG students | 17-18.01.11 |

1. In-house Training Programs

Details of lectures delivered during in-house training program are given in Table 5.

Table 5: *Details of the in-house training program*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Coordinator** | **Theme** | **Objectives** | **Target Audience** | **No. of partici-pants** | **Date** |
| Dr. Vijayakumar Narne | Staff enrichment program on Introduc-tion and application of MATLAB | To orient regarding the Application of MATLAB for stimulus generation, stimulus analysis, editing, EEG analysis and Statistics. | JRF, and staff from the department of Audiology | 15 | 15.08.10 |
| Dr Manjula P & Ms Megha | Workshop on Cochlear Implant | To orient on rehabilitation, speech coding strategies, fitting parameters of Maestro 4.0 software, candidacy of middle ear input and Auditory brainstem implant | I MSc. (Aud), II MSc. (Aud), JRFs, Staff of the Department | 57 | 05.03.11 |

1. Seminars/Conferences/Workshops Conducted

The following workshops/seminars/programs were conducted by the department:

Table 6: *Details of Seminars/Conferences/Workshops conducted*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Coordinator** | **Theme** | **Objectives** | **Target Audience** | **No. of partici-pants** | **Date** |
| Dr. K.J. Ramadevi, & Mr. Darga Baba Fakruddin | Fine-tuning of digital hearing aids: For individuals with hearing impairment | To provide information on care, use, trouble shooting of digital hearing aids & recent advances in hearing aid technology | Hearing aid users | 12 | 02.09.10 |
| Dr. P. Manjula, & Ms. Geetha, C | National Seminar on Paediatric Hearing Assessment and Rehabilitation | To provide information regarding identification, assessment, & rehabilitation of children with hearing loss. | Audiologists | 34 | 16.12.10 & 17.12.10 |
| Dr. Animesh Barman, &Mr. Sujeet Kumar Sinha | National Symposium on Evaluation and Management of Vestibular Problems | This symposium was being organized to understand the role of the vestibular system, the causes, assessment and management of these vestibular disorders. | Practicing Audiologists, ENT Specialists and students | 129 | 29.01.11& 30.01.11 |

**E. Seminars/Conferences/Workshops attended by faculty organized by the other agencies**

The details of workshop/seminars attended by the staff members of the department are provided in Table 7.

Table 7: *Details of conference/workshop/seminar organized/attended*

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Name of the workshop** | **Person/s who attended** | **Date/s** |
| 01 | 1st International workshop on CI organized by Dept. of ENT, Maulana Azad Medical College, New Delhi | Dr. Asha Yathiraj  Dr. Manjula P | 02&03.04.10 |
| 02 | Staff enrichment program on applications of MATLAB organized by the department of Electronics, AIISH | Prof. Manjula P  Dr. Sandeep M  Mr. Prawin Kumar  Mr. Sujeet Kumar Sinha  Dr. Vijayakumar Narne  Mr. Darba Baba Fakruddin, Mr. Prashanth Prabhu P  Mr. Mohan Kumar, K  Mr. Jijo, P.M | 15.08.10 |
| 03 | Workshop for earmold/shell making conducted by Electro NICS, Chennai | Mr. Subramanya M.N | 22.09.10 |
| 04 | Meet regarding framing of regulations and syllabus for the course on auditory verbal training at AYJNIHH, Mumbai | Ms. Revathi K.R | 24.09.10 |
| 05 | Workshop on ‘Pedagogy and Evaluation Methods’ organized by the Academic section on 17th November 2010 | Dr. Asha Yathiraj  Dr. Manjula P  Dr. Animesh Barman  Ms. Devi N  Ms. Mamatha N.M  Dr. Sandeep M  Ms. Geetha C  Mr. Sreeraj, K  Mr. Prawin Kumar  Dr. Vijayakumar Narne  Mr. Sujeet Kumar Sinha Mr. Niraj Kumar Singh  Ms. Chandni Jain | 17.11.10 |
| 06 | In-house training on tests of reading organized by Speech-Language Pathology | Ms. Geetha C | 18.11.10 |
| 07 | Symposium on Education on the Global Front – International Education Week 15-19 November organized by Department of Special Education | Dr. Vijayakumar Narne  Ms. K.R. Revathi | 19.11.10 |
| 08 | In-house training program on ‘Phonological Abilities Test & Test of Word Knowledge’ organized by Department of Clinical Services | Ms. Devi N  Dr. Ramadevi K.J | 03.12.10 |
| 09 | Seminar on ‘Clinical Research Methods in Communication Disorders’ organized by Department of Speech-Language Pathology | Mr. Sharath Kumar K.S | 07.12.10 |
| 10 | National Workshop on ‘Professional Voice: Assessment and Management’ organized by Dept. of Speech Language Sciences | Mr. Sreeraj K | 09-10.12.10 |
| 11 | Hindi Workshop at AIISH | Mr. Prawin Kumar  Mr. Niraj Kumar Singh | 17-18.01.11 |
| 12 | Pre-conference of ISHACON43 regarding Continuation Education Program titled: New Horizons in Audiology held at Kolkata | Mr. Prawin Kumar | 20.01.11 |
| 13 | ISHACON43 held at Koltaka | Dr. Asha Yathiraj  Dr. Animesh Barman  Mr. Prawin Kumar  Mr. Sujeet Kumar Sinha | 21-23.01.11 |
| 14 | Introductory workshop on MATLAB organized by Dept. of Electronics | Mr. Prawin Kumar  Mr. Sujeet Kumar Sinha  Mr. Darga Baba Fakruddin  Mr. Jawaharlal Antony P  Ms. Megha  Mr. Kishore Tanniru  Mr. Sharath Kumar K.S.  Ms. Sreela P.K | 27-28.03.11 |

1. Academic Programs and Meetings Attended by Faculty and Staff (Other than Seminars and Conferences)
2. **Prof. Asha Yathiraj**
3. Panelist in the Open House for public on cochlear implantation during 1st International workshop on Cochlear Implants at Maulana Azad Medical College, New Delhi on 02.04.10
4. Moderator for the panel on Habilitation of Children with Cochlear Implantation held on 03.04.10
5. Panelist for the panel discussion on Challenges on Solutions in Cochlear Implantation held on 03.04.10
6. RCI Sub-Committee meeting held on 05.04.10 & 06.04.10
7. Selection committee meeting for selection of staff in Group A, B, & C held on 09.04.10; 27.04.10 & 28.04.10
8. Member, Modification of RR rules held in May 2011
9. Chairperson, B.Sc (S&H) Entrance Examination held in May 2011
10. BOS member, Calicut University held in June 2011
11. Chief Superintendent, B.Sc (S&H), Entrance examination at AIISH, Mysore held on 05.06.10
12. Faculty meeting reg. faculty evaluation, distribution of works, JC,CC and guiding of dissertations, no. of papers to be presented in conference etc. held on 09.06.10
13. Member, Selection of ARF projects held on 06.07.10
14. Member, Selection Committee meeting regarding selection of candidates for doing Ph.D held on 26.07.10
15. Member, Review of ARF projects held on 26.07.10
16. Examiner, Mysore University held in July 2010
17. Board of Examiners (Special Education), AIISH, Mysore held on 13.10.10
18. Administrative issues, AIISH, Mysore held on 13.10.10an & 19.10.10
19. Reviewer in the meeting on project review group by ICMR, New Delhi held on 29.10.10
20. Served as a member, setting/scrutinizing the question papers for PG courses on 02.12.10, 06.12.10 & 07.12.10.
21. Meeting regarding 2nd Alumni meeting 02nd July 2011held on 07.01.11
22. DPC meeting held on 17&18.01.11
23. Selection Committee meeting at Nirman Bhavan, New Delhi held on 27.01.11
24. Attended BOAE (PG) meeting at Crawford Hall, UOM, Mysore held on 03.02.11
25. Attended meeting on CBCS rules, regulations and syllabus on 03.02.11.
26. Attended meeting regarding collaborative Indo-Norwegian collaborative research held at AIISH, Mysore held on 09.02.11
27. Attended Core Committee Coordinators meeting at Dr. M.V. Shetty College of Speech and Hearing, Mangalore held on 16.02.11
28. Attended meeting of Expert Committee of Rehabilitation Council of India on Development of Training Program held at Dr. M.V. Shetty College of Speech and Hearing, Mangalore held on 17-18.02.11
29. Attended a meeting at Bangalore held on 24.02.11
30. Attended BOAE (PG) meeting at Crawford Hall, UOM, Mysore held on 03.03.11
31. Attended BOAE meeting at UOM, Mysore held on 18.03.11
32. **Prof. P. Manjula**
33. Panelist in the Open House for public on cochlear implantation during 1st International workshop on Cochlear Implants at Maulana Azad Medical College, New Delhi on 02.04.10
34. Moderator for the panel on Habilitation of Children with Cochlear Implantation held on 03.04.10
35. Panelist for the panel discussion on Challenges on Solutions in Cochlear Implantation held on 03.04.10
36. Board of Examiners UG & PG (S&H), Mysore held on 20.04.10
37. Selection Committee meeting for selection for posts of Audiologist Gr.I, Earmould Technician & Prostho-dental mechanic held on 27.04.10 & 28.04.10
38. External Examiner at Dr.SRC Institute of Speech & Hearing, Bangalore held on 04.05.10
39. Internal Examiner for II M.Sc (Audiology) viva-voce held on 26.05.10
40. Examiner for University of Mysore June 2010 & July 2010
41. Meeting on switching over of M.Sc programs to Choice Based Credit System (CBCS) on 03.11.10.
42. Faculty meeting reg. faculty evaluation, distribution of works, JC,CC and guiding of dissertations, no. of papers to be presented in conference etc held on 09.06.10
43. Meeting on selection of ARF projects held on 06.07.10
44. Member, Selection Committee meeting regarding selection of candidates for doing Ph.D held on 26.07.10
45. Review of ARF projects held on 26.07.10
46. Compiled the information given by different departments for renewal of registration for availing customs duty and central excise duty exemption held in July 2010
47. BOE (PG), University of Bangalore held on 09.10.10
48. Meeting with Neurologist regarding the PGDNA course in the month of Nov. 2010.
49. Served as a member, setting/scrutinizing the question papers for PG courses on 02.12.10, 06.12.10 & 07.12.10.
50. Valuator of B.Sc (S&H), M.Sc (Audiology) & M.Sc (S&H) papers, Mysore University.
51. Meeting regarding 2nd Alumni meeting on 02nd July 2011 held on 07.01.11
52. Meeting organized at BIS, New Delhi to discuss the changes required in the draft of the IS document titled ‘Specifications for Behind-the-Ear (BTE) Hearing Aids – Digital held at Manak Bhawan New Delhi on 06.01.11
53. DPC meeting held on 13.01.11
54. Attended BOAE (PG) meeting at Crawford Hall, UOM, Mysore held on 03.03.11
55. Attended meeting with CPWD engineer at AIISH held on 04.03.11
56. Attended coordinators meeting reg. issue of scholarship for SC/ST at UOM, Mysore held on 24.03.11
57. **Dr. K. Rajalakshmi K**
58. Examiner for University of Mysore held in June 2011
59. DHLS Coordinators meeting reg. scrutinized the applications for DHLS Imphal Center held on 12.08.10
60. Reviewer -valuation of BSc speech & hearing papers
61. Switching over of M.Sc programs to choice based credit system (CBCS) on 03.11.10.
62. **Dr. Animesh Barman**
63. Selection Committee meeting for selection of Audiologist Gr. II Post held on 29.04.10
64. Internal Examiner for I M.Sc (Audiology) viva-voce held on 28.05.10.
65. Examiner for University of Mysore held in June 2011
66. Room Superintendent for B.Sc Examination held on 31.05.10
67. Faculty meeting reg. faculty evaluation, distribution of works, JC,CC and guiding of dissertations, no. of papers to be presented in conference etc held on 09.06.10
68. External examiner for University of Bangalore held on 17.07.10
69. Examiner, Mysore University held in July 2010
70. DHLS Coordinators meeting reg. scrutinized the applications for two DHLS centres (1) Ranchi (2) Cuttack held on 12.08.10
71. Served as a member, setting/scrutinizing the question papers for PG courses on 02.12.10,03.12.10, 06.12.10 & 07.12.10.
72. Valuator for BSc Exams during November/December exams
73. Attended BOE at Manipal University on 22.12.10
74. Attended meeting with CPWD engineer at AIISH held on 04.03.11
75. **Ms. Devi N**
76. Invigilator for BSc (S&H) & B.S.Ed Exams on 09.12.10
77. Invigilator for PG Exams on 31.01.11
78. **Ms. Mamatha N.M**
79. Internal Examiner for practical examination for DTYHI students at AIISH on 23.04.10
80. Invigilator for II B.Sc ((S&H) May 2011
81. Invigilator for B.Sc (S&H) Entrance examination on 05.06.10
82. Faculty meeting reg. faculty evaluation, distribution of works, JC,CC and guiding of dissertations, no. of papers to be presented in conference etc. on 09.06.10
83. Invigilator for BSc (S&H) on 02.12.10
84. Invigilator for PG Exams on 04.02.11
85. **Dr. Sandeep M**
86. Deputy Chief Superintendent for B.Sc (S&H) Entrance Examination on 05.06.10, Delhi Center
87. Room Superintendent for B.Sc (S&H) Entrance examination on 31.05.10
88. Faculty meeting reg. faculty evaluation, distribution of works, CC, JC and guiding of dissertations, no. of papers to be presented in conference etc. on 09.06.10
89. Served as a member, setting/scrutinizing the question papers for PG courses on 02.12.10 & 03.12.10 .
90. Invigilator for BSc (S&H) on 03.12.10
91. Invigilator for PG Exams on 01.02.11
92. **Ms. Geetha C**
93. Invigilator for B.Sc (S&H) Entrance examination on 05.06.10
94. Faculty meeting reg. faculty evaluation, distribution of works, CC, JC and guiding of dissertations, no. of papers to be presented in conference etc. on 09.06.10
95. Invigilator for BSc (S&H) on 29.11.10 & 10.12.10
96. Invigilator for PG Exams on 24.01.11
97. **Mr. Prawin Kumar**
98. Invigilator for B.Sc (S&H) Entrance examination on 05.06.10
99. Faculty meeting reg. faculty evaluation, distribution of works, CC, JC and guiding of dissertations, no. of papers to be presented in conference etc. on 09.06.10
100. Invigilator for BSc (S&H) on 13.12.10
101. Invigilator for PG Exams on 29.01.11
102. **Mr. Sreeraj K**
103. Invigilator for B.Sc (S&H) 07.06.10
104. Faculty meeting reg. faculty evaluation, distribution of works, JC,CC and guiding of dissertations, no. of papers to be presented in conference etc. on 09.06.10
105. Invigilator for BSc (S & H) on 01.12.10 &14.12.10
106. Invigilator for PG Exams on 28.01.11
107. **Mr. Sujeet Kumar Sinha**
108. Invigilator for B.Sc (S&H) Entrance Examination on 05.06.10
109. Faculty meeting reg. faculty evaluation, distribution of works, CC, JC and guiding of dissertations, no. of papers to be presented in conference etc. on 09.06.10
110. Invigilator for BSc (S&H) on 29.11.10 & 14.12.10
111. Invigilator for PG Exams on 02.02.11
112. **Dr. Vijayakumar Narne**
113. Invigilator for B.Sc (S&H) 05.06.10
114. Faculty meeting reg. faculty evaluation, distribution of works, CC, JC and guiding of dissertations, no. of papers to be presented in conference etc. on 09.06.10
115. Invigilator for BSc (S&H) on 29.11.10 & 01.12.10.
116. Served as a member, setting/scrutinizing the question papers for PG courses on 02.12.10 & 03.12.10.
117. Invigilator for PG Exams on 05.02.11.
118. **Mr. Niraj Kumar Singh**
119. Faculty meeting reg. faculty evaluation, distribution of works, CC, JC and guiding of dissertations, no. of papers to be presented in conference etc. on 09.06.10
120. Invigilator for BSc (S&H) on 29.11.10 & 02.12.10.
121. **Ms. Chandni Jain**
122. Faculty meeting reg. faculty evaluation, distribution of works, CC, JC and guiding of dissertations, no. of papers to be presented in conference etc. on 09.06.10
123. Served as a member, setting/scrutinizing the question papers for PG courses on 02.12.10 & 03.12.10.
124. Invigilator for BSc (S&H) on 29.11.10
125. Invigilator for PG Exams on 27.01.11
126. Served as internal examiner for PGDNA on 31.12.10.
127. **Dr. Ramadevi K.J**
     * 1. Internal examiner for practical examination for Diploma in HAET students at AIISH on 23.04.10.
       2. Invigilator for B.Sc (S&H) 05.06.10
128. **Ms. Dhanalakshmi T**
129. Invigilator for B.Sc (S&H) 05.06.10
130. Visits abroad: Nil
131. Details of Guest Faculty visited the Institute and Lecture Delivered

Table 8: *Details of the guest lectures during seminars/symposia*

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| --- | --- | --- |
| **Name** | **Topic of Lecture** | **Date** |
| Dr. M D. Ravi  Prof. of Paediatrics & Vice Principal Clinical, JSS Medical College | Key note address on ‘Development of the auditory system’ | 16.12.10 |
| Dr. T. K. Parthasarathy Prof. & Chair, Dept of Special education, Southern Illinois University | Issues in Assessment of Auditory Processing Disorders in Children | 16.12.10 |
| Mr. Apurv Kumar Clinical Specialist, Cochlear, Bangalore | Cochlear Implant Candidacy Issues and Challenges | 17.12.10 |
| Dr. M.V. Kirtane  Prof. Emeritus, ENT Consultant at Hinduja Hospital, Mumbai | 1. Evaluation of vestibular dysfunction: techniques and interpretation 2. Management of vestibular disorders: An overview | 29-30.01.11 |
| Dr. Pranesha Rao  Senior Speech Language  Pathologist and Audiologist, Bangalore | Alternate management techniques of vestibular disorders | 30.01.11 |

H) Details of Lectures Delivered by Faculty and Staff of the Department.

The staff and Junior Research Fellows of the department also delivered various lectures during seminars, workshops and symposiums.

Table 9: *Shows the details of the lectures given by the staff*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **Date** | **Topic** | **Venue** | **Delivered by** |
| 01 | 03.04.10 | Audiological profile in individuals with cochlear nerve hypoplasia | 1st International workshop on CI organized by Dept. of ENT Maulana Azad Medical College, New Delhi | Dr. Manjula P |
| 02 | 02.06.10  14.07.10 | Basics of audiology – structure, function and assessment of auditory systems relevant to children with learning problems | Sensitivity training on academic problems in school children enrolled under SSA in Karnataka, Mysore | Ms. Mamatha N.M |
| 03 | 14.07.10 | Academic problems: Auditory aspects | Sensitivity training on academic problems in school children enrolled under SSA in Karnataka, Mysore | Dr. Sandeep M |
| 04 | 19.11.10 | International Experience in research and teaching. | AIISH, Mysore, Symposium on Education on the global front – International Education Week 15-19 November organized by Special Education Department | Dr. Vijayakumar Narne |
| 05 | 16-17.12.10 | Cochlear implant programming | AIISH, Mysore National seminar on Paediatric Hearing Assessment and Rehabilitation organized by Department of Audiology | Dr. Manjula P |
| 06 | 16-17.12.10 | Screening and identification of hearing loss in children. | Dr. M. Sandeep |
| 07 | 16-17.12.10 | Hearing assessment in paediatric population using subjective measures. | Ms. Chandni Jain |
| 08 | 16-17.12.10 | Objective hearing assessment in pediatric population | Mr. Niraj Kumar Singh |
| 09 | 16-17.12.10 | Hearing assessment in children with special needs | Dr. Animesh Barman |
| 10 | 16-17.12.10 | Listening training in paediatric population with hearing impairment | Dr. Asha Yathiraj |
| 11 | 16-17.12.10 | Paediatric hearing aid fitting – selection and verification | Ms. Geetha C |
| 12 | 16-17.12.10 | Issues on management of children with APD | Mr. Prawin Kumar |
| 13 | 16-17.12.10 | Use of assistive listening devices in paediatric population with hearing impairment | Mr. Sreeraj K |
| 14 | 16-17.12.10 | Video demo of hearing assessment in paediatric population | Mr. Niraj Kumar Singh &  Ms. Megha |
| 15 | 16-17.12.10 | Video demo of hearing aid fitting & CI programming | Dr. Ramadevi K.J & Mr. Prashanth Prabhu P |
| 16 | 16-17.12.10 | Video demonstration of listening training | Ms. Devi N  Ms. Manasa  Madappa |
| 17 | 09.01.11 | Assessment and Management of CAPD | National Conference on ENT held at Chennai | Dr. Asha Yathiraj |
| 18 | 22-23.01.11 | Multi-disciplinary services and research in the area of cochlear implant. | ISHACON43, Kolkata | Dr. Asha Yathiraj |
| 19 | 29-30.01.11 | Vestibular pathways related to VEMP | AIISH, Mysore National symposium on Evaluation and Management of Vestibular Problems organized by Audiology | Dr. Animesh Barman |
| 20 | 29-30.01.11 | VEMP recording techniques. factors affecting and interpretation of VEMP | Mr. Niraj Kumar Singh |
| 21 | 29-30.01.11 | Video demonstration on assessment of vestibular system | Dr. G. Rajeshwari  Mr. Sujeet Kumar Sinha |
| 22 | 29-30.01.11 | Clinical applications of VEMP | Mr. Sujeet Kumar Sinha |
| 23 | 19.02.11 | Listening training | Wellcare Institute of Speech & Hearing, Calicut | Mr. Sreeraj K |

I) **Additional Academic Responsibilities of the Faculty and Staff**

**Prof. Asha Yathiraj**

Served as

* Academic Coordinator
* Chairperson, Anti-ragging squad
* Chairperson, BOE (Speech and Hearing) wef 07.02.11
* Chairperson, BOE (Special Education) wef 07.02.11
* Chairperson, LTU
* Meeting regarding M.Sc CBCS scheme along with HOD-SLS and CS.
* Reviewed of regulations and syllabus on PGAAC on 12.11.10
* BOE (Special Education), University of Mysore on 18.11.10
* Member – Core Committee to plan quasi distance mode post-graduate program in speech language and hearing.
* Member – Constituted for establishment of digital speech, language and hearing encyclopedia.
* Chairperson, Condemnation of equipment committee.
* Member, Core committee to plan quasi distance mode post-graduate program in speech language and hearing.

**Dr. P. Manjula**

Served as

* HOD – Audiology
* Chairperson – Internship Committee, AIISH
* In-charge of Hearing Aid Dispensing Unit
* Member, Constituted for establishment of digital speech, language and hearing encyclopedia.
* Member, Condemnation of equipment committee
* Resource person for a phone-in-program ‘Navilugari’ conducted by AIR, Mysore at 9 am on 04.01.11

**Dr. K. Rajalakshmi**

Served as

* HOD – Department of Material Development.
* DHLS Coordinator, Jabalpur Center
* Member, Constituted for establishment of digital speech, language and hearing encyclopedia.

**Dr. Animesh Barman**

Served as

* DHLS Coordinator, Cuttack Center
* EC member, AIISH Gymkhana
* Member, Constituted for establishment of digital speech, language and hearing encyclopedia.
* Inspector to provide a status report of the centre for the new born screening program at Cuttack DHLS centre on 24.01.11.

**Ms. Devi N**

Served as

* Member for committee for neonatal screening at DHLS centre.
* ‘Monitor’ to supervise the activities of DHLS centers for the newborn screening program at DHLS r center, Ajmer.
* Inspector to provide a status report of the centre for the new born screening program at Cuttack DHLS center on 24.01.11.

**Dr. Sandeep M.**

Served

* DHLS Coordinator, Lucknow
* NSS Officer
* Member, Library Committee
* Member, Canteen Committee
* EC member, AIISH Gymkhana

**Ms. Geetha C**

Served

* Member, Internship Coordination Committee
* Member in the committee for finalization and acceptance of TV spots.

**Dr. Vijayakumar Narne**

Served

* Member – Core committee to plan quasi distance mode post-graduate program in speech language and hearing
* Inspector to inspect the infrastructure for infant hearing screening and ear mould lab at DHLS centre, Shimla on 15.12.10 & 16.12.10.

**Mr. Sujeet Kumar Sinha**

Served

* Member, Public Grievances Cell
* Incharge – International Guest House, AIISH
* Asst. Warden for boys hostel till 26.10.10
* Member Secretary, Vertigo Clinic, AIISH
* Co-chairperson for the poster presentation on 21.01.11 during the ISHACON43 at Kolkata

**Mr. Niraj Kumar Singh**

Served

* Member, Vertigo Clinic, AIISH

**Ms. Chandni Jain**

Served

* Member, Issue of clinical services on first & last Friday on every month.
* Member, Committee of Listening Training Unit.
* Member, Learning Disability Unit

**Mr. Jawahar Antony P**

Served

* Member, Internship Coordination Committee

**Ms. Revathi K.R**

Served

* ‘Monitor’ to supervise the activities of DHLS centers for the newborn screening program at DHLS center, Ajmer.
* Inspector to provide a status report of the centre for the new born screening program at r DHLS center, Ajmer on 31.01.11.
* Member, Issue of clinical services on first & last Friday on every month.
* Member Secretary, Committee of Listening Training Unit.

**Dissertations: (i) Submitted**

* 32 II M.Sc (Audiology) students submitted their research work as part fulfillment of Masters Degree under the guidance of faculty of the department. Details of masters dissertations submitted are provided in Table 10.

Table 10: *Details of the Dissertations completed*

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.**  **No.** | **Name** | **Title** | **Guide** |
| 01 | Anuprasad | WARP processing vs. conventional processing. A comparative study in individuals with sensorineural hearing loss | Ms. Mamatha NM |
| 02 | Archana | Test battery for music perception in individuals using hearing devices | Prof. Manjula P |
| 03 | Badariya M | Effect of age on fatiguing characteristics of efferent inhibition | Dr. Sandeep M |
| 04 | Bhavya Rani M.S | Evaluation of speech evoked ABR for selection of hearing aids | Dr. V. Basavaraj |
| 05 | Chayakant Patro | Lexical neighbourhood test: an Indian-English version for children | Prof. Asha Yathiraj |
| 06 | Darshan S | Temporal fine structure (TFS) sensitivity in individuals with normal hearing and sensorineural hearing loss | Ms. Mamatha NM |
| 07 | Dhanya M | OAE profile in individuals with tinnitus | Dr. Animesh Barman |
| 08 | Divya Joseph | Conventional BTE vs.RIC (Receiver-in-the-canal) BTE hearing aids: A comparative study on perceptual and acoustic analysis of speech and music | Dr. Sandeep M |
| 09 | Giridhar G Krishnan | Dichotic rhyme test in Malayalam: A normative data on adults | Dr. K. Rajalakshmi |
| 10 | Hasna Fathima | Effect of prescriptive formulas on music perception in hearing aid users | Dr. V. Basavaraj |
| 11 | Kamala Sarathy | Effect of syllabic and dual compression on speech identification score across different degrees of hearing loss | Ms. Devi N |
| 12 | Kumari Apeksha | Effect of sensorineural hearing loss and digital hearing aid on speech evoked auditory later latency response | Ms. Devi N |
| 13 | Love Deep | Development and standardization of spondee work list in Rajasthani language | Dr. K. Rajalakshmi |
| 14 | Mohan | Maturation of the cortical evoked potential. | Dr. Animesh Barman |
| 15 | Nayana S | Development of the profile for evaluating hearing aid benefit in children. | Ms. Devi N |
| 16 | Neeraja Singh | Findings of Cochlear Hydrops Analysis Masking Procedure (CHAMP) in subjects with suspected and confirmed Meniere’s disease | Dr. V. Basavaraj |
| 17 | Prashanth Prabhu P | Development of auditory comprehension test for children in Kannada | Prof. Manjula P |
| 18 | Prashasti | Compressive non-linearity in sensorineural hearing loss – validates through electrophysiological test | Dr. Rajalakshmi K |
| 19 | Prathibha K K | Efficacy of ASSR as a tool for estimating loudness growth in children. | Dr. Rajalakshmi K |
| 20 | Priyanka M | Neurophysiological correlates of auditory training – brainstem and cortical structures | Dr. Sandeep M |
| 21 | Ramya | Ear mould modifications and its effect on different subjective and objective measures | Prof. Manjula P |
| 22 | Rathnakar | High frequency speech identification test in Telugu | Ms. Mamatha NM |
| 23 | Reesha OA | Music perception in audio and audio-visual impaired. | Ms. Devi N |
| 24 | Rohith H | Auditory evoked cortical responses in children using speech and non-speech stimuli | Dr. Animesh Barman |
| 25 | Sarooj Sahoo | Evaluation of performance with open fit and occluded RIC hearing aid | Prof. Manjula P |
| 26 | Sreela P.K | Effect of reverberation on speech identification scores of digital hearing aid users | Ms. Devi N |
| 27 | Swagathika | Effect of hormonal influence during menstrual cycle on immittance findings | Ms. Mamatha NM |
| 28 | Udit Saxena | Effect of background noise on temporal processing in children and young adults | Dr. Rajalakshmi K |
| 29 | Usha Shastri | Comparison of performance with BAHA and air conduction hearing aids in individuals with conductive hearing loss and mixed hearing loss | Prof. Manjula P |
| 30 | Vijayakumar | Effect of fine grain auditory training in the perception of voicing of stops in individuals with auditory dys-synchrony. | Prof. Asha Yathiraj |
| 31 | Vinu Francis | VEMP in individuals with otitis media | Dr. Animesh Barman |
| 32 | Vivek Mandal | Effect of aging on VEMP | Dr. Animesh Barman |

1. **Under progress:**  36 II M.Sc (Audiology) students are doing their research work under the guidance of faculty of the department.

Table 11: *Details of the Dissertations under progress*

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.**  **No.** | **Name of the researcher** | **Dissertation topic** | **Name of the guide** |
| 01 | Achaiah M.A | Comparison of preferred and prescribed gain in experienced hearing aid users | Dr. Vijayakumar Narne |
| 02 | Akash Juneja | Acoustic change complex in developing children (7-15 years of age) | Ms. Devi N |
| 03 | Akshay Raj Maggu | Effect of temporal pattern training on specific central auditory processes | Dr. Asha Yathiraj |
| 04 | Anisha A.B. | Immittance findings in infants using different probe tone frequencies | Ms. Mamatha N.M |
| 05 | Anjana Beninja Jacob | Effect of non-linear frequency compression in children with limited benefit from high frequency amplification | Ms. Geetha C |
| 06 | Anoop B.J. | Test retest reliability of VEMP parameters | Mr. Niraj Kumar Singh |
| 07 | Anoop O. Thomas | Effect of musical training on temporal resolution and speech perception in noise | Dr. Rajalakshmi K |
| 08 | Ashwini Rao P.N. | Electrically evoked stapedial reflex thresholds: Relationship with behavioral ‘T’ and ‘C’ levels in cochlear implant users | Dr. Asha Yathiraj |
| 09 | Bhamini Sharma | Relationship between DPOAE fine structure and hearing sensitivity across different age groups and gender | Dr. VB / Mr. Sujit Kumar Sinha |
| 10 | Bharath Bhushan K.R. | Physiological correlates of masking level difference | Dr. Animesh Barman |
| 11 | Chaitra V. | Effect of filtering and compression on right ear advsntage | Mr. Niraj Kumar Singh |
| 12 | Dhatri S. Devaraju | Developmental changes in co-modulation masking release for puretones: A cross sectional study | Ms. Mamatha N.M |
| 13 | Divyashree M.S. | Central auditory maturation and language development in children with hearing impairment | Ms. Mamatha N.M |
| 14 | Hanan Mohammed N.T. | Effect of context on brainstem encoding of speech | Dr. Sandeep M |
| 15 | Jyoti | Effect of number of channels of hearing aids on speech perception in varying degrees of sloping hearing loss | Mr. Niraj Kumar Singh |
| 16 | Mukesh Kumar | Dichotic word test for native Hindi speaking children | Ms. Chandni Jain |
| 17 | Navdeep Kanwer | Hearing aid benefit questionnaire for adults | Ms. Devi N. |
| 18 | Nike Gnanateja G. | Relation between consonant perception and psychoacoustic measures in auditory dys-synchrony | Dr. Animesh Barman |
| 19 | Nimisha Saxena | Temporal resolution in listeners with unilateral deafness | Dr. VB /  Dr. Vijaykumar Narne |
| 20 | Pallavi | Correlation of electrocochleograph (ECochG) and cochlear hydrops analysis masking procedure (CHAMP) in Meniere’s Disease | Mr. Prawin Kumar |
| 21 | Pavan M. | Correlation of Ripple noise discrimination with perception of amplitude compressed speech by individuals with cochlear hearing loss | Dr. Rajalakshmi K |
| 22 | Prabhash Kumar | Effects of hearing aid processed speech on brain stem response | Dr. Sandeep M |
| 23 | Pragati Rao M.V. | Hearing aid usage: Relationship between auditory plasticity and audiological measures | Dr. Manjula P |
| 24 | Prajna Nayak | Evaluation of hearing aid parameters for optimal music perception in individuals with hearing impairment | Dr. Manjula P |
| 25 | Praveen H.R. | Optimizing and evaluating the performance of hearing aid in the ear contra-lateral to the ear with cochlear implant in children | Dr. Manjula P |
| 26 | Priyanjali Harit | Vocal emotion recognition by normal-hearing listeners, individuals with hearing impairment and by auditory neuropathy/auditory dyssynchrony patients | Ms. Devi N |
| 27 | Ranjeet Ranjan | Effect of stimulus rate on sub-cortical auditory processing in children | Dr. Animesh Barman |
| 28 | Sharanya R. | Effect of hearing impairment and noise on the processing of simultaneous sentences | Dr. Rajalakshmi K |
| 29 | Shruti D. Gulvadi | Role of auditory working memory in prescribing hearing aid and type of compression in geriatrics | Ms. Geetha C |
| 30 | Sindhushree H.S. | Perception of emotions in cochlear implant users, hearing aid users and normal hearing children | Dr. Asha Yathiraj |
| 31 | Sonitha Kumar | Binaural interaction component of auditory brainstem response in children using click and speech stimuli | Mr. Sujit Kumar Sinha |
| 32 | Srikar V. | Acoustic change within a syllable in auditory neuropathy | Dr. Vijayakumar Narne |
| 33 | Suma Chatni | Acoustic change complex in native and non-native speakers of a tonal language | Dr. Sandeep M |
| 34 | Swathi V.M. | Effect of dance training on vestibular evoked myogenic potentials | Mr. Sujit Kumar Sinha |
| 35 | Tanvi G.N. | Management of tinnitus: A comparative study | Ms. Geetha C |
| 36 | Vivek S. | A comparison between outcomes using preferred gain and prescribed gain formulae in children | Dr. Vijayakumar Narne |

1. **RESEARCH ACTIVITIES**
2. Research Projects
3. **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 over.

1. **Other Research Projects** : Nil
2. Research Papers Presented at National/International Conference/Seminar/Scientific Forums

Table 12: *Details of Research Papers Presented*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Name** | **Co-author** | **Title of the paper** | **Name of the Conference** |
| 01 | Jyothi &  Kanchan | **Sujeet Kumar Sinha**, Lecturer | Test-retest-reliability of cochlear hydrops analysis masking procedure test. | ISHACON43 at Kolkata held on 21-23.01.11 |
| 02 | Dhananjay R | **Sujeet Kumar Sinha**, Lecturer | Brain-stem correlates of temporal processing in middle aged individuals: A preliminary study | ISHACON43 at Kolkata held on 21-23.01.11 |
| 03 | Vivek Mandal | **Animesh Barman**, Reader | On vestibular evoked myogenic potentials. | ISHACON43 at Kolkata held on 21-23.01.11 |

1. Research Papers Published
2. Papers Published in National /International Journals ***CORRECTIONS***
3. National Journals
4. Garvita Mehta & Sandeep, M (2011). Neurophysiological representation of Hearing Aid Processed Speech, Journal of Speech Language Hearing Association, Vol.25(1), 49-58.

========Student Research at AIISH====

1. Anuprasad, S & Mamatha, N.M (2009-10). Warp processing vs. conventional processing in digital hearing aids: a comparative study. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.1-5.
2. Archana & Manjula P. (2009-10). Music (Indian Music) perception pest battery for individuals using hearing devices. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.6-17.
3. Badariya, M. & Sandeep M. (2009-10). Effect of age on fatiguing characteristics of efferent inhibition. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.18-25.
4. Bhavya Rani & Vijayalakshmi Basavaraj. (2009-10). Speech-evoked auditory brainstem responses on hearing aid selection. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.26-36.
5. Chayakant Patro & Asha Yathiraj. (2009-10). The lexical neighbourhood test: An Indian-English version for children. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.37-43.
6. Darshan, S. & Mamatha N.M. (2009-10). Determining temporal fine structure (tfs) sensitivity in individuals with normal hearing and cochlear hearing loss through frequency discrimination of complex tones. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.44-52.
7. Dhanya, M., & Animesh Barman. (2009-10). OAE profile in individuals with tinnitus having normal hearing sensitivity. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.53-63.
8. Divya S. Joseph & Sandeep, M. (2009-10). Conventional BTE vs RIC (receiver in the canal) BTE: a comparative study on perceptual and acoustic analysis of speech and music. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.64-72.
9. Giridhar G. Krishnan & Rajalakshmi, K. (2009-10). Dichotic rhyme test in Mayalalam: A normative study. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.73-80.
10. Hasna Fathima & Vijayalakshmi Basavaraj. (2009-10). Effect of prescriptive formulae on the perception of music in hearing aid users. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.81-90.
11. Kamala Sarathy & Devi, N. (2009-10). Effect of syllabic and dual compression on speech identification scores across different degrees of hearing loss. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.91-98.
12. Kumari Apeksha & Devi, N. (2009-10). Effect of sensorineural hearing loss and digital hearing aids on speech evoked auditory late latency response. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.99-107.

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1. **Kumari Apeksha &Devi N (2010). Effect of Sensorineural Hering Loss on Speech Evoked Aided Auditory Late Latency Response. Journal of All India Institute of Speech and Hearing, Vol.29(2), pp.241-247. {[[The only JAIISH Publication}}**

========Student Research at AIISH====

1. Lovedeep Kholia & Rajalakshmi, K. (2009-10). Development and standardization of speech material in Rajasthani language. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.108-114.
2. Mohan Kumar, K., & Animesh Barman. (2009-10). Maturation of speech evoked cortical auditory evoked potential. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.115-124.
3. Nayana, S., & Devi, N. (2009-10). Development of questionnaire for evaluating hearing aid benefit in children. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.125-137.
4. Niraja Singh & Vijayalakshmi Basavaraj. (2009-10). Findings of cochlear hydrops analysis masking procedure (CHAMP) in subjects with suspected and confirmed Meniere’s disease. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.138-146.
5. Prashanth Prabhu P, & Manjula P. (2009-10). Development of test of auditory comprehension in Kannada (TAC-K). Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.147-155.
6. Prashasti & Rajalakshmi, K. (2009-10). Compressive non-linearity of basilar membrane-evaluation through elecrophysiological test. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.156-161.
7. Prathibha, K.K., & Rajalakshmi, K. (2009-10). Elecrophysiological correlates of loudness using auditory steady state responses. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.162-174.
8. Priyanka Madhok & Sandeep, M. (2009-10). Neurophysiological consequence of auditory training: subcortical and cortical structures. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.175-183.
9. Ramya, V., & Manjula, P. (2009-10). Ear mould venting and its effects on different subjective and objective measures. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.184-190.
10. Ratnakar Y.V., & Mamatha, N.M. (2009-10). High frequency speech identification test in Telugu. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.284-290.
11. Reesha Hussain & Devi, N. (2009-10). Music perception in individuals with audio and audio-visual impairment. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.191-198.
12. Rohith, H., & Animesh Barman. (2009-10). Cortical evoked potentials in children using speech and non-speech stimuli. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.199-209.
13. Saroj Kumar Sahoo & Manjula, P. (2009-10). Evaluation of performance with occluded and open-fit receiver-in-canal (RIC) hearing aids. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.210-220.
14. Sreela, P.K., & Devi, N. (2009-10). Effect of reverberation on speech identification using digital hearing aids. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.221-230.

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1. **Sujeet Kumar Sinha & Vijayalakshmi Basavaraj (2010). Auditory Brainstem Responses to Forward and Reversed Speech in Normal Hearing Individuals. Journal of All India Institute of Speech and Hearing, Vol.29(2), pp.232-240.**
2. **Sujeet Kumar Sinha & Vijayalakshmi Basavaraj (2010). Lateral Asymmetry in Speech Processing at the Brainstem: Evidence from Speech Evoked ABR. Journal of All India Institute of Speech and Hearing, Vol.29(2), pp.101-109.**

========Student Research at AIISH====

1. Swagathika Nayak & Mamatha, N.M. (2009-10). Effect of hormonal influence during menstrual cycle on immittance findings. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.231-236.
2. Udit Saxena and Rajalakshmi, K. (2009-10). Effect of background noise on temporal processing in children and young-adults. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.237-242.
3. Usha Shastri & Manjula, P. (2009-10). Comparison of performance between air conduction hearing aid and bone anchored hearing aid attached to the headband. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.243-256.

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JAIISH

1. 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, Vol.29(2), pp.110-114.

========Student Research at AIISH====

1. Vijay Kumar Yadav Avilala & Asha Yathiraj (2009-10). Effect of listening training in perception of voicing of stops in individuals with auditory dys-synchrony. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.266-275.

JAIISH

1. Vijay Kumar Yadav Avilala, Prashanth Prabhu P, & Animesh Barman (2010). The Effect of Filtered Speech on Speech Identification Scores of Young Normal Hearing Adults. Journal of All India Institute of Speech and Hearing, Vol.29(2), pp.115-119.

========Student Research at AIISH====

1. Vinu Francis & Animesh Barman (2009-10). VEMP findings in individuals with otitis media. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.257-265.
2. Vivek Mandal & Animesh Barman (2009-10). Effect of ageing on vestibular evoked myogenic potential. Journal of All India Institute of Speech and Hearing, Vol.VIII, pp.276-283.

(ii) 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, Vol.35, No.1, pp.56-63.
2. Sujeet Kumar Sinha & Vijayalakshmi Basavaraj (2010). Speech Evoked Auditory Brainstem Responses: A New Tool to Study Brainstem Encoding of Speech Sounds. Indian Journal of Otolaryngology and Head & Neck Surgery, Vol.62(4), 395-399.
3. Papers Published in National/International Conference/Seminar Proceedings:

Draft version of the proceedings of the seminar on Evaluation and Management of Paediatric Population. The same was released during the inaugural function of the above seminar.

1. Books/Book Chapters Published :
   * + - 1. Yathiraj, A, (2010-11). Unit 2: Auditory training and its importance and auditory verbal therapy (AVT)In Perception through hearing aids, auditory training and evaluation of hearing aids (Block 2). Publication of IGNOU for programme Aural Rehabilitation of Children with Hearing Impairment.

1. Books/ Conference Proceedings Edited:

Dr. Asha Yathiraj

* Editor for Journal of All India Institute of Speech and Hearing, Vol.29, No.1, 2010.
* Editor for Journal of All India Institute of Speech and Hearing, Vol.29, No.2, 2010.
* Editor for 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.

Dr. Manjula P

* Editor for Journal of All India Institute of Speech and Hearing, Vol.29, No.1, 2010.
* Editor for Journal of All India Institute of Speech and Hearing, Vol.29, No.2, 2010.

F) Peer-review for Journals:

Dr. Asha Yathiraj

* Reviewer for Journal of Indian Speech Language and Hearing Association Vol.25, No.1, 2011.

Dr. Manjula P

* Reviewer for Journal of Indian Speech Language and Hearing Association Vol.24, No.2, 2010.
* Reviewer for Journal of Indian Speech Language and Hearing Association Vol.25, No.1, 2011.

Dr. Animesh Barman

* Reviewer for Journal of Indian Speech Language and Hearing Association Vol.24, No.2, 2010.

Dr. Sandeep M

* Compiler for Audiology dissertation articles for Student research at AIISH Mysore publication 2009-10.

G) Doctoral Program

1. Degree Awarded : Nil
2. Thesis Submitted: Nil
3. Under Progress

Five faculty/staff, five junior research fellows (JRF) and two external candidates are pursuing their Ph.D under the guidance of the Director and the faculty of the department. Details of the Ph.D program under progress in the department are provided in Table 13.

Table 13: *Ph.D. program under progress*

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

1. **CLINICAL SERVICES**

**Hearing Evaluation**

A battery of tests is administered with the state-of-the-art equipment on clients, complaining of problem in hearing, who visit the institute from all over the country and abroad. Physiological and electrophysiological tests play an important role in detecting the clients with functional hearing loss, whose number has shot up to avail the increased financial aid.



Photo1: Immittance evaluation

Table 14 gives the details of clients seen for hearing evaluation and of certificates issued for eligible clients to avail welfare measures. Figure 1 provides details of status of hearing in clients evaluated and the audiological tests carried out.

Table 14**:**  *Clients seen in hearing evaluation section*

|  |  |  |
| --- | --- | --- |
| 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 audiogram copies issued | | 6403 |
| No. of clients tested in Hindi | | 413 |
| No. of certificates issued | | 1515 |
| * Financial aid | 893 |  |
| * Admission to school for the deaf | 129 |  |
| * Physically handicapped | 212 |  |
| * Tax exemption | 54 |  |
| * Education scholarship | 107 |  |
| * At camp | 4 |  |
| * Others | 120 |  |
| 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 |

**Fig.1 :** No. of clients tested in hearing evaluation section

**Fig**.2 No. of ears tested with normal hearing & with different types of hearing loss

**Fig: 3** No. of certificates issued in various categories

**Hearing Aid Trial**

For those clients who require hearing devices, evaluation is done to select appropriate hearing devices such as hearing aids and assistive listening devices. Evaluation is also done to decide cochlear implant candidacy. Programming of the cochlear implants is also being carried out for clients. The clients are also counseled on the hearing aid use and care. They are distributed with printed education material on the use of hearing aids.

Table 15 and Figure 4 give the details of hearing aid evaluation carried out at AIISH and at camps.

Table 15**:** *Clients seen in hearing aid trial unit*

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

**Fig 4 :** Activities at HAT Unit

**Counseling and Guidance**

Counseling and demonstration on hearing aid use were carried out for 4038 clients who have been issued hearing aids. Individuals with poor speech identification ability were advised to use communication strategies and speech reading.

**Fig 5 :** No. of clients seen for different activities at HAT Unit

**Ear Moulds**

Custom ear moulds were made for clients who were prescribed and issued hearing aids. Ear moulds were also made with acoustic modification for research purposes. The central prosthetic lab had received ear impressions to be processed as ear moulds.

Table 19 and Figure 6 give the details of activities carried out in the ear mould lab at AIISH and at camps.

Table 16**:** *No. of clients seen in ear moulds lab*

|  |  |
| --- | --- |
| 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 50% payment | 0 |
| 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 |

**Fig. 6:**  No. of clients seen and no. of ear impression taken

**Fig.7 :** Types of earmolds made at the ear mould Lab

**AIISH Hearing Aid Dispensing Scheme:**

For clients who are not eligible to avail a hearing aid under the ADIP scheme and for those clients who can afford to purchase the hearing aids, the hearing aids are dispensed at discounted rates through this scheme. The details of hearing aids prescribed for purchase under hearing aid dispensing scheme (HADS) are given in Table 17 & figure 8.

Table 17**:** *Hearing aids dispensed under HAD scheme*

|  |  |  |
| --- | --- | --- |
| Total number of hearing aids dispensed | | 967 |
| * Body level | 36 |  |
| * BTE Analogue | 5 |  |
| * BTE Digital | 53 |  |
| * BTE Trimmer Digital | 848 |  |
| * ITC Digital | 24 |  |
| * CIC Digital | 2 |  |
| * ITE Digital | 1 |  |

**Fig.8** : No. of hearing aids dispensed every month at AIISH

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 is given in the Table 18 and Figure 8.

Table 18**:** *Age-wise statistics*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Age**  **group** | **Hearing**  **Evaluation** | | **Hearing Aid**  **Trial** | | **HAT**  **Counseling** | | **Ear moulds** | |
| **Male** | **Female** | **Male** | **Female** | **Male** | **Female** | **Male** | **Female** |
| 00-01 | 163 | 108 | 132 | 104 | 48 | 27 | 61 | 58 |
| 02-05 | 644 | 513 | 908 | 683 | 174 | 149 | 344 | 304 |
| 06-10 | 437 | 376 | 516 | 379 | 178 | 117 | 180 | 129 |
| 11-15 | 347 | 273 | 294 | 218 | 117 | 74 | 114 | 97 |
| 16-20 | 396 | 301 | 241 | 161 | 96 | 69 | 101 | 65 |
| 21-25 | 412 | 297 | 215 | 130 | 114 | 66 | 73 | 52 |
| 26-30 | 386 | 306 | 193 | 89 | 94 | 69 | 72 | 47 |
| 31-35 | 351 | 256 | 150 | 128 | 55 | 55 | 49 | 34 |
| 36-40 | 351 | 268 | 166 | 139 | 108 | 85 | 63 | 53 |
| 41-45 | 326 | 236 | 176 | 121 | 81 | 73 | 62 | 50 |
| 46-50 | 311 | 239 | 210 | 120 | 119 | 82 | 76 | 66 |
| 51-55 | 347 | 219 | 244 | 143 | 143 | 88 | 96 | 55 |
| 56-60 | 370 | 262 | 325 | 170 | 168 | 96 | 121 | 64 |
| 61-65 | 416 | 256 | 398 | 165 | 235 | 131 | 153 | 87 |
| 66-70 | 391 | 262 | 415 | 198 | 262 | 128 | 182 | 76 |
| 71-75 | 351 | 186 | 368 | 133 | 225 | 130 | 133 | 52 |
| 76-80 | 227 | 95 | 295 | 96 | 161 | 53 | 107 | 33 |
| 81-85 | 135 | 69 | 169 | 48 | 74 | 56 | 50 | 19 |
| 86-90 | 60 | 27 | 60 | 35 | 38 | 15 | 20 | 8 |
| 91+ | 10 | 6 | 19 | 7 | 7 | 7 | 4 | 2 |
| **Total** | 6431 | 4555 | 5494 | 3267 | 2497 | 1570 | 2061 | 1351 |
| **10,986** | | **8,761** | | **4,067** | | **3,412** | |
| **Grand Total – 27,226** | | | | | | | | |

**Fig.9:** No. of clients **(**gender-wise) evaluated at HE, HAT, counselling and EM sections

Specialized Clinical Services

**Listening Training Unit**

Listening training is provided for clients who use hearing devices such as hearing aids, cochlear implants and for clients with tinnitus & hyperacusis. Training is provided mainly by student clinicians under the supervision of the staff. Training is given for some of the cochlear implantees by the staff of the department. Table 19 and figure 10 provide the details of the clients who have undergone listening training.

Table 19: *Activities in listening training unit*

|  |  |
| --- | --- |
| 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 |
| No. of clients discharged | 68 |
| No. of clients discontinued | 105 |
| Parent counseling session (Individual) | 917 |
| No. of clients given training in Hindi | 183 |
| No. of clients with CI | 138 |
| No. of sessions for clients with CI | 906 |
| No. of sessions for tinnitus/hypercusis | 155 |
| Total no. of students posted | 1083 |

**Fig.10:** Details of Listening Training Unit

1. Augmentative and Alternative Communication Unit (AAC): NA
2. Fluency Unit: NA
3. Craniofacial Unit: NA
4. Autism Spectrum Disorder Unit ( ASD Unit): NA
5. Professional Voice Care Unit: NA
6. Pre-School Training and Special education: NA
7. Pre-School Parent Empowerment Program: NA
8. **TECHNOLOGICAL CONSULTANCY SERVICES :**
9. Acoustic Measurements

The department is well equipped with real time analyzers, which enable the audiologist to carry out measurement of electro-acoustic characteristics of hearing aids. The measurement helps in the certification of new trial hearing aids. This provides information on whether a hearing aid procured or received meets standard specifications or not. Electro-acoustic characteristics of 360 trial hearing aids were carried out.

1. Hearing Aid Repairs: NA
2. **EXTENSION ACTIVITIES**
3. Rehabilitation & Education through Distance Mode: NA
4. Prevention of Communication Disorders : NA
5. Publicity and Information:

Dr. Manjula P

* Participated in a Navilugari phone-in-program of the AIR in connection with the noise and hearing conservation on 04.01.11.

Dr. K. Rajalakshmi

* Participated in a phone-in-program of the AIR in connection with the noise from fire crackers during Deepavali on 05.11.10.

1. Camps

As a part of the extension activity many speech and hearing camps were conducted by the institute. The staffs of the department have participated in various camps and have carried out hearing evaluation to the clients. Hearing aid evaluation was also done and suitable hearing aids were prescribed. Ear impressions were taken to make custom ear moulds for the clients who have been issued free hearing aids at the camp site. Counseling was provided and pamphlets were also distributed among the clients.

Table 20: *Details of the staff participated in various camps*

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No.** | **Place** | **Date** | **Staff name** |
| 01 | Tarikere, Chikmagalur | 23.04.10 | Mr. Prawin Kumar  Mr. S. Md. Ismail  Mr. Subramanya M.N. |
| 02 | Sultan Bathery | 29.07.10 | Mr. Darga Baba Fakruddin  Mr. Jithin Raj B |
| 03 | Panamaram | 30.07.10 | Mr. Darga Baba Fakruddin  Mr. Jithin Raj B |
| 04 | T. Narasipura | 29.09.10 | Ms. Dhanalakshmi T  Ms. Megha  Mr. Chetan C |
| 05 | Periyapatna | 07.12.10 | Ms. Manasa Madappa |
| 06 | Mekedatu | 11.12.10 | Mr. Arunraj K  Mr. Jayaram M.T  Mr. Vivek A |
| 07 | Labland Biotech, KRS Road, Mysore | 22.12.10 | Mr. Jawahar Anthony P |
| 08 | T. Narasipura | 20.02.11 | Ms. Dhanalakshmi T  Mr. Subramanya M.N. |
| 09 | Hosapete, Bellary | 24.02.11 | Mr. Arunraj K  Mr. Chetan C |
| 10 | Handpost, H.D. Kote | 02-03.03.11 | Dr. Sandeep M  Mr. Sharath Kumar K.S  Mr. Sudarshan B |
| 11 | Tarikere, Chikamagalur | 17.03.11 | Ms. Niraja Singh  Mr. Vivek A |
| 12 | Devanur, Nanjangud Taluk | 27.03.11 | Mr. Prashantha Prabhu P  Mr. Chethan C |

1. Orientation Programs
   1. The staff members of the department attended orientation lecture delivered by Dr. G. Rangamani, Full-Bright Scholar, titled ‘Assessment of students’ on 27.01.11.
   2. Dr. Animesh Barmandelivered an orientation lecture to the students of PGDNA program on credit based choice system (CBCS) in the month of Sept. 2010.
   3. The faculty of the department attended orientation lectures on Choice Based Credit System at the University/AIISH.
2. Public Lecture Series

Table 21: *Details of the public lectures series of AIISH*

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Resource person** | **Topic** | **Date** |
| 01 | Ms. C Geetha | Early identification and early intervention of hearing impairment | 31.07.10 |
| 02 | Dr. K Rajalakshmi | Hearing aid - its acceptance, care and maintenance | 25.09.10 |
| 03 | Mr. K.S Sharath Kumar | Influence of high risk factors on hearing | 26.03.11 |

1. **CENTRAL FACILITIES**
2. Library and Information Services: NA
3. Material Development
4. *The following pamphlets translated to Indian languages*:
5. Hindi (from English)
6. Ms. Rajalakshmi R & Mr. Niraj Kumar Singh: Getting to know your hearing aid (body level)
7. Ms. Rajalakshmi R, Niraj Kumar Singh, & Ms. Chandni Jain: Caring of your hearing aids: Do and Don’ts
8. Ms. Rajalakshmi R, & Mr. Niraj Kumar Singh: Form-1: Application for obtaining disability certificate by persons with disabilities
9. Kannada (from English)
10. Ms. Rajalakshmi R, Dr. Ramadevi, K.J, Ms. Mamatha, N.M: Care, use and maintenance of earmolds
11. Ms. Rajalakshmi, R., Dr. Ramadevi, K.J., & Ganeshaiah, G.V: Form-1: Application for obtaining disability certificate by persons with disabilities
12. Tamil (from English)
13. Mr. Arunraj, KI., & Ms. Devi, N: Form-1: Application for obtaining disability certificate by persons with disabilities

(d) The following pamphlets were printed in multiple copies:

1. Beware of noise 2000 copies
2. Body level hearing aid care 2000 copies
3. Child with hearing impairment in the class 2000 copies
4. Facts about hearing loss and hearing aids 3000 copies
5. Getting to know digital hearing aid 2000 copies
6. Getting to know your hearing aid 2000 copies
7. For the person using hearing aid 3000 copies
8. Correcting simple problems of body level hearing aid 2000 copies
9. Prevention of hearing impairment 3000 copies
10. Adjusting to amplification 3000 copies
11. Tinnitus – ringing in the ears 1000 copies
12. Caring for your hearing aid: Do’s & Dont’s 3000 copies
13. Tips for better communication 2000 copies
14. Some tips for families with person using hearing aid 2000 copies
15. Correcting simple problem of BTE hearing aid 2000 copies
16. Assistive listening devices 1000 copies
17. Use and care of BTE hearing aid 2000 copies
18. **AWARDS AND HONORS RECEIVED BY FACULTY AND STAFF**

Table 22: Details of the honors received for best scientific papers

|  |  |  |  |
| --- | --- | --- | --- |
| 01 | Jyothi,  Kanchan, &  **Sujeet Kumar Sinha** | Test-retest-reliability of cochlear hydrops analysis masking procedure test.  Won M Raghunath Memorial Award for best poster presentation in Audiology | ISHACON43 at Kolkata held on 21-23.01.11 |

1. **EXTRA CURRICULAR ACTIVITIES:** NA
2. NSS
3. AIISH GYMKHANA
4. Others
5. **ADMINISTRATIVE ACTIVITIES**
6. Official Language Implementation

Ms. Devi, N and Mr. C. Chethan passed Probodh Hindi Examination.

1. *Translation of PEPs into Hindi language*

*Table 23: Details of staff involved in the material development*

|  |  |  |
| --- | --- | --- |
| **Sl.No.** | **Staff involved** | **Name of the topic** |
| 01 | Ms. Rajalakshmi R  Mr. Niraj Kumar Singh | Getting to know your hearing aid (Body level) |
| 02 | Ms. Rajalakshmi R  Mr. Niraj Kumar Singh | Form-1: Application for obtaining disability certificate by persons with disabilities |
| 03 | Ms. Rajalakshmi R  Mr. Niraj Kumar Singh  Ms. Chandni Jain | Caring of your hearing aid: Do and Don’ts  . |

1. *U*
2. *Under printing*

The following pamphlet was submitted for printing

1. Getting to know your hearing aid (Body level) – Hindi) - 2000 copies
2. Information on Personnel
3. Appointments
4. Regular

Table 24: *Details of regular appointment*

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No,** | **Name** | **Designation** | **Date of Appointment** |
| 01 | Mr. Darga Baba Fakruddin | Audiologist Gr.I | 30.04.10 |
| 02 | Mr. Chethan C | Earmold Technician | 30.04.10 |
| 03 | Ms. Megha | Clinical Assistant | 05.05.10 |
| 04 | Mr. Sharath Kumar K.S | Research Assistant | 05.05.10 |
| 05 | Ms. Manasa Madappa | Research Assistant | 05.05.10 |
| 06 | Mr. Arunraj K | Cli. Assistant | 05.05.10 |
| 07 | Mr. Chethan C | Earmold Technician | 05.05.10 |
| 08 | Ms. Geetha, C | Lecturer | 07.05.10 |
| 09 | Mr. Vivek A | Prostho-Dental Mechanic | 10.05.10 |
| 10 | Mr. Prawin Kumar | Lecturer | 11.05.10 |
| 11 | Mr. Sreeraj K | Lecturer | 11.05.10 |
| 12 | Mr. Jawahar Anthony P | Audiologist Gr. II | 11.05.10 |
| 13 | Mr. Sujeet Kumar Sinha | Lecturer | 13.05.10 |
| 14 | Dr. Vijayakumar Narne | Lecturer | 13.05.10 |
| 15 | Mr. Jitin Raj B | Audiologist Gr.II | 17.05.10 |
| 16 | Mr. Niraj Kumar Singh | Lecturer | 31.05.10 |
| 17 | Ms. Chandni Jain | Lecturer | 07.06.10 |

1. Contract

Table 25: *Details of contract appointment*

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No,** | **Name** | **Designation** | **Date of Appointment** |
| 01 | Mr. Rajesh | Earmold Technician | 14.06.10 |
| 02 | Mr. Jayaram, M.T (DHAET) | Earmold Technician | 08.10.10 |
| 03 | Mr. Shoukathali, K.K (DHLS) | Earmold Technician | 11.10.10 |
| 04 | Mr. Kishore Tanniru | Lecturer | 14.02.11 |

1. Deputation: NA
2. Project staff

Table 26: *Details of project staff appointment*

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No,** | **Name** | **Designation** | **Date of Appointment** |
| 01 | Ms. Ramya V | Research Officer | 16.8.2010 |
| 02 | Mr. Vijay Kumar Yadav A | Research Officer | 12.8.2010 |
| 03 | Ms. Reesha Hussein | Research Officer | 19.8.2010 |
| 04 | Ms. M Dhanya | Research Officer | 23.8.2010 |
| 05 | Mr. Mohan Kumar | Research Officer | 12.8.2010 |
| 06 | Ms. Kumari Apeksha | Research Officer | 17.8.2010 |

1. Promotion

Table 27: *Details of staff promoted*

|  |  |  |
| --- | --- | --- |
| Dr. Ramadevi KJ | Audiologist Gr.I | 29.01.10 |
| Mr. Darga Baba Fakruddin | Audiologist Gr.II | 30.04.10 |

1. Resignation/Retirement

Table 28: *Details of staff resigned*

|  |  |  |
| --- | --- | --- |
| **Name** | **Resigned** | **With effect from** |
| Ms. Megha | Audiologist | 30.04.10 |
| Mr. Darga Baba Fakruddin | Clinical Supervisor | 30.04.10 |
| Mr. Chethan C | Earmold Technician | 30.04.10 |
| Ms. Manasa Madappa | Audiologist Gr. II | 07.01.11 |
| Mr. Pradeep P | Audiologist Gr. II | 07.05.10 |

1. Obituary : NA
2. MACP

Table 29: *Details of staff obtained MACP*

|  |  |  |  |
| --- | --- | --- | --- |
| 01 | Dr. Ramadevi KJ | Audiologist Gr.I | II MACP |
| 02 | Ms. Revathi K. R. | Clinical Supervisor | II MACP |
| 03 | Ms. Rajalakshmi R | Steno Gr.II | II MACP |

1. Major Constructions :

Extension of Audiology block started on 26.11.2010. Work is under progress.

1. Particulars of Equipment/spares/furniture Purchased

Table 30: *Details of equipment/spares/furniture purchased*

|  |  |  |
| --- | --- | --- |
| **No.** | **Particulars** | **Qnty/no** |
| 01 | 1.5 TR split high wall AC blue star | 1 no. |
| 02 | 3 seater patient chair | 30 nos. |
| 03 | 4 KVA AC voltage stabilizer | 1 no. |
| 04 | 700 VA UPS blazer pro-700 with inbuilt battery | 3 nos. |
| 05 | Baby furniture for paediatric unit |  |
| 06 | Blue star candle split a/c 3 TR cordless remote | 4 nos. |
| 07 | Bluetooth NOAH Link | 2 nos. |
| 08 | Bone vibrator B71 with cable and headband | 10 pieces |
| 09 | Cable for BC vibrator | 20 pieces |
| 10 | CDRx (copy right CDs) | 48 nos. |
| 11 | Computer chairs (revolving with arm support of Maroon in colour) | 20 nos. |
| 12 | Computer tables | 20 nos. |
| 13 | Dell Monitor 17” TFT (LCD 17” square Model No.E1705, S.N M875N) |  |
| 14 | Diagnostic Immittance meter GSI-Tymps for version 2 (226 Hz, 668 Hz & 1000 Hz) | 1 no. |
| 15 | Executive Chairs | 5 nos. |
| 16 | Executive Chairs – Maroon colour | 12 nos. |
| 17 | Executive tables with wooden top and 2 side drawers | 4 nos. |
| 18 | HiPro | 2 nos. |
| 19 | IHS AEP VEMP | 2 nos. |
| 20 | MA53 audiometer 2 channel | 2 nos. |
| 21 | Neuroscan stimkey (as a free replacement of the lost stimkey) | 1 no. |
| 22 | NOAH link Sl.No.327911 & 327908–2 nos. along with charger, Bluetooth disk, USB cable, rechargeable cell, users manual and NOAH link CD |  |
| 23 | Peacock chairs | 25 nos. |
| 24 | Plastic waste bin | 15 nos. |
| 25 | Revolving chairs with wheel base | 5 nos. |
| 26 | Scandisk (8 GB) | 6 nos. |
| 27 | Soft ear mould tubes |  |
| 28 | Spares for Madsen Capella OAE system |  |
| 29 | Spares for Madsen OB 922 |  |
| 30 | Spike buster (4 sockets) | 9 nos. |
| 31 | Spike buster (6 sockets) | 12 nos. |
| 32 | Steel almirah | 15 nos. |
| 33 | TDH 39 headphone with ear cushion with cable | 10 pieces |
| 34 | UPS | 3 nos. |
| 35 | Biological Navigator along with accessories (Sl.no.10C05804M) | 1 no. |
| 36 | Biologic navigator pro with biomark  Sl.no.10C05826M  Sl. No.10C05828M | 1 no.  2 nos. |
| 37 | EP-15 preamplifier with interface | 1 no. |
| 38 | Vertical 4 draw filing cabinet | 14 nos. |
| 39 | IHS and MA 53 spares and accessories |  |
| 40 | GSI tympstar, IHS-AEP equipment | 2 nos. |
| 41 | Soft ear mould material |  |
| 42 | NOAH Link –from Starkey | 2 nos. |
| 43 | Electro-Plaster dispenser | 1 no. |
| 44 | Hydraulic Press | 2 nos. |
| 45 | LED display board | 2 nos. |
| 46 | Custom made wooden diwan | 2 nos. |
| 47 | Custom made wooden cabinet with door | 3 nos. |
| 48 | Reclining chairs | 12 nos. |
| 49 | HP laser jet P2055 dn | 3 no. |
| 50 | Moulding flask | 50 nos. |
| 51 | Fixture for moulding - clamps | 25 nos. |
| 52 | Fonix 7000 | 1 no. |
| 53 | Desktop computer | 18 nos. |
| 54 | IHS AEP with facilities of 4 channels, VEMP | 1 no. |
| 55 | 3 in 1: printer / copier / scanner | 1 no. |
| 56 | Halo ear muffin acoustic tip with red/blue tubing gray (pair) for insert phone of biologic AEP system | 10 pairs |
| 57 | Nu-prep (Model-Nuprep, skin prepping gel 40z (114 gm) tube (10-30) | 50 nos. |
| 58 | GSI immittance tips; Universal cleaning kit (2000-9610) SI tympstar immittance probe tubing; GSI tympstar ver.2 EEPROM chip; pressure pump assembly for SI tympstar (2000-322) |  |
| 59 | ABR pediatric foam tips | 20 pks |

1. Financial Statements: NA
2. Others: NA
3. **EMINENT VISITORS**

Table 31 List of eminent visitors for the department:

Table 31:*Eminent persons/visitors for the department*

|  |  |  |  |
| --- | --- | --- | --- |
| 01 | DHLS students | Delhi Center | 30.04.10 |
| 02 | Prof. R. Rangasayee and Prof. Roopa Nagarajan | RCI Inspectors | 03.05.10 |
| 03 | RCI inspectors | RCI Inspectors from various centers (during DHAET inspection) | 15.04.10 |
| 04 | Mr. Neeraj Magotra | Dept. Chair, Electrical & Computer Engg, Western New England College, MA | 23.06.10 |
| 05 | Mr. Sameet Mudbidri | CMO, Quadio, Pune | 23.06.10 |
| 06 | Dr. Dipankar Das | ADDG, Min. of H&FW, New Delhi | 02.07.10 |
| 07 | Mr. Ramesh | Coordinator, DHLS, Jabalpur | 02.07.10 |
| 08 | Dr. H. Raju | Nodal Officer, NPPCD, Mandya | 02.07.10 |
| 09 | A team of engineers | CPWD Engineers | 07.07.10 |
| 10 | Prof. V.N. Rajashekaran Pillai | Vice Chancellor, Indira Gandhi National Open University (IGNOU) | 09.08.10 |
| 11 | Prof. K.S. Rangappa | Vice Chancellor, Karnataka State Open University, Mysore. | 09.08.10 |
| 12 | Sri Keshav Desiraju, IAS | Addnl. Secretary (H), Min. of H&FW, GOI. | 17.09.10 |
| 13 | Ms. Shalini Prasad, IAS | Jt. Secretary (H), Min. of H&FW, GOI. | 17.09.10 |
| 14 | Dr. EV. Ramana Reddy, IAS | Secretary (H), Min. of H&FW, GOI. | 17.09.10 |
| 15 | ENT Surgeon from Bangladesh | From Bangladesh | 04.10.10 |
| 16 | Mr. Desiraju, IAS | Additional Secretary (H), Ministry of H&FW, New Delhi | 08.10.10 |
| 17 | Ms. Indira Kameshwaran | Director, MERF, Chennai | 22.10.10 |
| 18 | Dr. Anirban Biswas | Otoneurologist, New Delhi | 22.10.10 |
| 19 | Dr. Alok Takker | Prof. of ENT, AIIMS, New Delhi | 22.10.10 |
| 20 | Sri Dinesh Trivedi | Hon’ble Minister of State for Health & Family Welfare, GOI | 29.12.10 |
| 21 | Sri Harsh Gupta | Deputy Commissioner of Mysore, Mysore | 07.01.11 |
| 22 | Nursing students | Mission Hospital, Mysore | 11.01.11 |
| 23 | Nursing students | Mother Teresa Nursing College, Mysore | 11.01.11 |
| 24 | Dr. Milind Kirtane | Prof. Emeritus, SGS Medical College, Mumbai | 30.01.11 |
| 25 | Prof. Orien  Prof. Svendsen  Dr. S.N. Vinay | Dean of faculty  Prof. in Information Technology  Research Scientist  From Norwegian University of Science and Technology (NTNU), Trondheim, Norway. | 09.02.11 |

1. **ANY OTHER**

**Other Administrative Services**

1. **Dr. Asha Yathiraj**
   * + - 1. Member, Reception Committee, 45th Annual day celebration held on 09.08.10
2. **Dr. Manjula P**

Member, Reception Committee, 45th Annual day celebration held on 09.08.10

1. **Dr. K. Rajalakshmi**

1) Chairperson, Catering Committee, 45th Annual day celebration held on 09.08.10

1. **Dr. Animesh Barman**
2. Chairperson, Sports Committee, Open day of the institute on 29.10.10
3. Member, Transportation Committee, 45th Annual day celebration held on 09.08.10
4. **Ms. Devi N**
5. Member Secretary, School Children’s Competitions Committee, Open day of the institute on 29.10.10.
6. Member, Sports Committee, Open day of the institute on 29.10.10
7. Prepared poster regarding National Symposium on ‘Exploring Areas of Research in Cognitive Science’. This was sent for display in AIISH stall during ISHACON43 held at Kolkata on 22-24.01.11.
8. **Ms. Mamatha N.M**
9. Chairperson, Sports Committee, Open day of the institute on 29.10.10
10. Member, Accommodation/Hospitality Committee, 45th Annual day celebration held on 09.08.10
11. Member, Catering Committee, open day of the institute on 29.10.10.
12. **Dr. Sandeep M**
13. Member, Sports Committee, Open day of the institute on 29.10.10
14. **Geetha C**
15. Member, Invitation, Publicity and Information Committee, 45th Annual day celebration held on 09.08.10
16. **Mr. Prawin Kumar**
17. Member, Transportation Committee, 45th Annual day celebration on 09.08.10
18. Member, Catering Committee, Open day of the institute on 29.10.10
19. **Mr. Sreeraj K**
20. Member-Secretary, Special Events Committee, Open day of the institute on 29.10.10
21. **Mr. Sujeet Kumar Sinha**
22. Member, Exhibition Committee, 45th Annual day celebration on 09.08.10
23. Member, Cultural Committee, 45th Annual day celebration on 09.08.10
24. Member, Catering Committee, Open day of the institute on 29.10.10
25. **Dr. Vijayakumar Narne**
26. Member, Finance Committee, 45th Annual day celebration on 09.08.10.
27. Member, Special Events Committee, Open day of the institute on 29.10.10
28. **Ms. Chandni Jain**
29. Member, Cultural Committee, 45th Annual day celebration on 09.08.10.
30. Member, Exhibition Committee, Open day of the institute on 29.10.10.
31. Member, School Children’s Competitions Committee, Open day of the institute on 29.10.10
32. **Dr. Ramadevi K.J**
33. Member, Special Events Committee, Open day of the institute on 29.10.10
34. **Mr. Darga Baba Fakruddin**
35. Member, Accommodation/Hospitality Committee, 45th Annual day celebration on 09.08.10.
36. Member, School Children’s Competitions Committee, Open day of the institute on 29.10.10
37. **Ms. Revathi K.R**
38. Member, Cultural Committee, 45th Annual day celebration on 09.08.10.
39. Member, Special Events Committee, Open day of the institute on 29.10.10
40. **Ms. Dhanalakshmi T**
41. Member, Special Events Committee, Open day of the institute on 29.10.10
42. **Ms. Megha**
43. Member, Decoration Committee, 45th Annual day celebration on 09.08.10.
44. Member, School Children’s Competitions Committee, Open day of the institute on 29.10.10
45. **Mr. Sharath Kumar K.S**
46. Member, Transportation Committee, Open day of the institute on 29.10.10
47. **Ms. Manasa Madappa**
48. Member, School Children’s Competitions Committee, Open day of the institute on 29.10.10
49. **Mr. Jithin B Raj**
50. Member, Transportation Committee, Open day of the institute on 29.10.10
51. **Ms. Rajalakshmi R**
52. Member, Special Events Committee, Open day of the institute on 29.10.10
53. Member, Publicity and Information Committee, Open day of the institute on 29.10.10
54. **Ms. Dakshayini K**
55. Member, Catering Committee, Open day of the institute on 29.10.10

HOD – Audiology

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**DEPARTMENT OF AUDIOLOGY**

SH/Aud/AR/2010-11 25th April 2011

Submitted to the Director:

Sub: Draft material for annual report for the year 2010-11 – reg.

Ref: SH/LIB/AR/2010-11 dated 11.04.11

With reference to the above, herewith enclosed is a copy of the material for annual report for the year 2010-11, as required by you.

HOD – Audiology

Encl: a/a