**DEPARTMENT OF ELECTRONICS, AIISH**

**Monthly Meeting Presentation – November 2018**

**Academic Activities**

1. No. of seminars/conferences/workshops/ training programmes conducted: 01.
2. No. of orientation/short term training programmes conducted (*for outsiders*): Nil.
3. No. of guest lecturers organized : Nil.

**Research Activities**

1. Research Paper Publications
2. No. of international journal articles – Nil.
3. No. of national journal articles – Nil.
4. No. of in-house journal articles - Nil
5. Research Paper Presentations

1. No. of international conference papers - 02 Nos
   * + 1. Project titled “Typical Spectral characteristics of Plosives in Speech of children with Hearing Impairment” presented at 13th Western Pacific Acoustics conference held at CSIR – NPL New Delhi from 11th -15th, November 2018.
       2. Paper titled “Efficacy of a Wiener Filter Based Technique for Speech Enhancement in Hearing Aids” Presented at 20th International conference of world Academy of Science Engineering & Technology held at Kyoto, Japan from 15th to 16th, November 2018.
2. No. of national conference papers - Nil
3. Others *(in numbers*)
4. Research Projects- Extramural (*in numbers*) – 2 nos.
5. Ongoing - 2 nos.
   * + 1. Titled “NASOSPEECH: Development of Diagnostic system for Severity Assessment of the Disordered Speech”, Under “DBT’s Twinning programme for the NE”

Duration: 3 years, Amount Rs. 59.69 lakhs

Principal Investigator: Dr. Ajish K Abraham

Co-Investigator: Dr. Pushpavathi

* + - 1. Titled “ARTICULATE+ : A system for automated assessment and rehabilitation of persons with articulation disorders”, Under IMPRINT

Duration: 3 years, Amount Rs. 137.498 lakhs

Principal Investigator: Dr. Ajish K Abraham

Co-Investigator: Dr. Pushpavathi / Dr. N Sreedevi

1. Completed
2. Initiated
3. Research Projects- Intramural (*in numbers*) – 3 nos.
4. Ongoing - 1. ARF Project

Titled “Development and Evaluation of Indigenous curriculum oriented computer based tutor for concept learning in preschool children with special needs.

Principal Investigator: Ms. P.V. Ramanakumari

Co-Investigator: Dr. Ajish K Abraham / Ms. P.V. Manjula

2. ARF Project

Titled “Automation of Malayalam Articulation test using automatic speech recognition”

Principal Investigator: Prof. Ajish K Abraham

Co-Investigator: Prof. N Sreedevi

1. Ongoing - 1. ARF Project

Titled “Development and Validation of a Mobile application tool for arithmetic concept teaching for Preschoolers”.

Principal Investigator 1: Smt. Renuka. C

Principal Investigator 2: Dr. Swapna N

Co-Investigator: Ms. Lakshmi Prabha J K

1. Books/Book Chapters/ Other Resource Materials prepared :

1. Reviewed procedures for Audiometric testing rooms as per Indian Standards

2. Reviewed to build up AIISH Database for different disorders

3. Reviewed papers for Ornamentations features

1. Type of the resource
2. Numbers

**Clinical Support Services**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Name of service** | **Description** | **Quantity** |
| 1 | Hearing aid repair | Body level  BTE | 23  95 |
| 2 | Hearing aid issue – ADIP | Institute  POCD  Camps | 65 |
| 3 | Hearing aid issue - HDDU  Planned Project | Institute | 212 |
| 4 | Issue of spares | Cells  Body case  Battery Door  Ear hook  Wind protector  BTE Huggies | 612  01  02  06  2  40 |
| 5 | Repair works / service | Computer / peripherals  Electrical  Telephones  Calibration  Electronics    Audio visual arrangements  Web updates  Support for VC programs :-  DHLS  TCPD | 40  38  06  02  29  09  05  84  14 |
| 6 | Certificates Issued to Hearing aid users | Condemnation | 0 |

**Outreach Clinical Services**

1. Clinical Assessment - NA
2. Category
3. No. of cases
4. Clinical Rehabilitation /Therapy - NA
5. Category
6. No. of cases

**External Consultancy Service :**

1. Electro Acoustic evaluation of six hearing aids from Commissioner for Welfare of the Different Abled, Chennai on 12.11.2018
2. Electro Acoustic evaluation of two hearing aids from District project coordinator SSA, Gajapathi on 30.12.2018
3. Calibration of one device - Inventis Harp plus Audiometer from pika Medicals Pvt Ltd, Bangalore on 13.11.2018.

**Internal revenue generated – Rs. 7250/-**

**Public Education and other Outreach Activities**

**Major Programmes/ Events Carried out**

1. Name of the Programme/ Event : Hearing Aid Repair Camp held from 26th -30th November, 2018

1. Other Major Activities Carried out : Nil

**Programmes/ Events Planned for Next Month** : Nil

**Others** :

Prof. Ajish K Abraham delivered an invited talk titled “Research problems in Speech Processing for Communication Disorders” at the School of Computing, National University of Singapore on 23rd November, 2018.