## ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE: 570 006

**DEPARTMENT OF ELECTRONICS**

07.02.2019

Submitted to Director:

The soft copy of the monthly report of the Department of Electronics covering the period of January, 2019 is hereby sent to [director@aiishmysore.in](mailto:director@aiishmysore.in) and [aiishreports@gmail.com](mailto:aiishreports@gmail.com)

HOD- Electronics

**DEPARTMENT OF ELECTRONICS, AIISH**

**Monthly Report for the Month of January 2019**

**Academic Activities**

1. No. of seminars/conferences/workshops/ training programmes conducted: NIL

1. No. of orientation/short term training programmes conducted (*for outsiders*): NIL
2. No. of guest lecturers organized : NIL

**Research Activities**

1. **Research Paper Publications**
2. No. of international journal articles – **02 nos.**
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 -

**Mrs. Renuka C:**

* **Three** Paper Presented in 3rd IEEE international conference (ICEECCOT-2018) at GSSS, Mysuru from 14-15th December, 2018 titled below:

1. A technical approach to find defects during articulation of phonemes
2. Can we accelerate Autism discover is through eye tracking and machine learning technology?
3. Adaptive machine learning –An Innovative hearing aid technology”
4. No. of national conference papers - NIL
5. Others *(in numbers*) – NIL
6. Awards received for the papers – **03 Nos.**

* **Mrs. Renuka C,** Lecturer in Electronics, Department of Electronics received Three **Best Paper Presentation** Award in 3rd IEEE international conference (ICEECCOT-2018) at GSSS, Mysuru from 14-15th December, 2018 for the paper titled below:

1. A technical approach to find defects during articulation of phonemes
2. Can we accelerate Autism discover is through eye tracking and machine learning technology?
3. Adaptive machine learning –An Innovative hearing aid technology”
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 -NIL
2. Initiated - NIL
3. Research Projects- Intramural (*in numbers*) – **3 nos.**
4. **Ongoing - ARF Project**
5. Titled “Automation of Malayalam Articulation test using automatic speech recognition”
   * + - * Principal Investigator: Prof. Ajish K Abraham
         * Co-Investigator: Prof. N Sreedevi
6. 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. Titled “Development of Speech enabled Communication tool for clients with Speech Impairment in Kannada”

* Principal Investigator: Mr. Manohar N
* Co-Investigator: Dr. Rajasudhakar

1. Titled “Design and Development of E-Learning Platform and Faculty System”
   * + - * Principal Investigator: Dr. Shijith Kumar C

* Co-Investigator: Mr. Manohar N

1. Books/Book Chapters/ Other Resource Materials prepared :
2. Type of the resource
3. Numbers

**Clinical Support Services**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Name of service** | **Description** | **Quantity** |
| 1 | Hearing aid repair | Body level  BTE | 30  67 |
| 2 | Hearing aid issue – ADIP | Institute  POCD  Camps | NIL |
| 3 | Hearing aid issue - HDDU  Planned Project | Institute | 137  26 |
| 4 | Issue of spares | Cells  Body case  Battery Door  Ear hook  Wind protector  BTE Huggies | 8686  01  02  18  04  NIL |
| 5 | Repair works / service | Computer / peripherals  Electrical  Telephones  Calibration  Electronics  Audio visual arrangements  Web updates  Support for VC programs :-  DHLS  TCPD | 41  66  14  49  46  09  09  NIL  14 |
| 6 | Certificates Issued to Hearing aid users | Condemnation | 1 |

**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 five hearing aids from District project coordinator SSA Puri, Odisha 752001 on 09.01.2019
2. Electro Acoustic evaluation of one hearing aids from District project coordinator SSA Balasore, Odisha 756001 on 09.01.2019
3. Calibration of two device – Sohum New born hearing screening device from Sohum Innovation Lab Pvt. Ltd. Bangalore on 17.01.2019

Internal revenue generated **– Rs. 13950/-**

Public Education and other Outreach Activities

Major Programmes/ Events Carried out

1. Name of the Programme/ Event : NIL
2. Other Major Activities Carried out : NIL

Programmes/ Events Planned for Next Month: NIL

**Others**

**Prof. Ajish K Abraham**

* Delivered an Expert lecture on ‘Care and Maintenance of Audiology Equipments’ at National Institute of Speech and Hearing, Thiruvananthapuram on 29.01.2019
* Delivered the Keynote address on ‘Technology for Enhancing of Children with Hearing Impairment’ as the annual conference of the National Council of Educators for the Deaf 2019 held at Sathyabhama Institute of Science and Technology, Chennai on 30.01.2019

**Mr. N. Manohar**

* Served as a Resource Person for delivering a series of lecture on the topic of ‘Application of ICT in Classroom’ to B.Ed.Spl.Ed. (HI) students over three sessions on between 26th and 28th December, 2018

**Mr. Ravishankar M.S**

* Served as a Recourse person for induction training program of NBS/OSC/POCD staff of AIISH on 17.12.2018
* Measurement of Noise Level in Industries (Nanjungud Suruchi Khadi and Gramodyoga Sangha and Indus Granites Industries) on 21.01.2019

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