**DEPARTMENT OF ELECTRONICS, AIISH**

**Monthly Meeting Presentation – December 2018**

**Academic Activities**

1. No. of seminars/conferences/workshops/ training programmes conducted: 01.

Staff enrichment program: “Digital Neural Networks (DNN) and its applications”

By Dr. Prathosh A.P (IIT, Delhi) to Smt. Renuka C, Lecturer in Electronics (On contract)

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

Guest Lecturer by Dr. Prathosh A, Assistant Prof. IIT Delhi on 27th December, 2018

**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 - Nil
2. No. of national conference papers - Nil
3. Others *(in numbers*)
4. Awards received for the papers- 3 Best Paper awards for all the papers mentioned above. (To Smt. Renuka C, Lecturer in Electronics (On contract)
5. Research Projects- Extramural (*in numbers*) – 2 nos.
6. 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 “Automation of Malayalam Articulation test using automatic speech recognition”

Principal Investigator: Prof. Ajish K Abraham

Co-Investigator: Prof. N Sreedevi

2. 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 Exploring Acoustic measures of vowels (VSA, FCR3, VAI4, VFR) in child with hearing impairment

3. Diagnostic accuracy of acoustic voice quality index discriminating across the perceptual degree of dysaphonia severity

4. Development of poxy composites with nano and micro fillers for core Insulation (Format Checking and corrections)

1. Type of the resource
2. Numbers

**Clinical Support Services**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Name of service** | **Description** | **Quantity** |
| 1 | Hearing aid repair | Body level  BTE | 22  102 |
| 2 | Hearing aid issue – ADIP | Institute  POCD  Camps | 65 |
| 3 | Hearing aid issue - HDDU  Planned Project | Institute | 171 |
| 4 | Issue of spares | Cells  Body case  Battery Door  Ear hook  Wind protector  BTE Huggies | 4080  01  02  10  04  42 |
| 5 | Repair works / service | Computer / peripherals  Electrical  Telephones  Calibration  Electronics    Audio visual arrangements  Web updates  Support for VC programs :-  DHLS  TCPD | 31  58  09  25  36  14  07  80  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 two hearing aids from District project coordinator SSA Nayagarh, Odisha on 13.12.2018
2. Electro Acoustic evaluation of three hearing aids from District project coordinator SSA Kalahandi, Odisha on 24.12.2018
3. Electro Acoustic evaluation of three hearing aids from District project coordinator Samagra Shiksha Rayagada, Odisha on 26.12.2018
4. Calibration of one device – Newly designed pure tone Audiometer from Dr. C Nagaraju, Professor. Sri Krishnadevarya University, Ananthpuram on 19.12.2018.

**Internal revenue generated – Rs. 8125/-**

**Public Education and other Outreach Activities**

**Major Programmes/ Events Carried out**

1. Name of the Programme/ Event : Attended staff enrichment by Shri. Kartik Venkateshan

1. Other Major Activities Carried out : Nil

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

**Others** :

1. Prof. Ajish K Abraham delivered an invited talk titled “Research problems in signal processing in Hearing Aids” at Indian Institute of Technology, Mandi, Himachal Pradesh on 18th December, 2019.
2. Karthik Venkatesh

i) Audio-Video Conference

ii) Recording of Ornamentations (Gamakas) for Santosh sir

iii) Calculation of periodicity and Aperiodicity for Ruben sir

iv) Speak mobile App understanding by Oshin

v) Graduation day 2018 video uploaded into youtube

vi) Understanding SAARBUCHEAN database

vii) IMPRINT IIC Proposal review

viii) Technical Explanation for PhD for Ms. Srushti