

## Innovations in the last five years



# Computer Based Audiological Evaluation Training Software

Developed in the Department of Audiology as a part of ARF project

All India Institute of Speech and Hearing, Mysuru, India

**Authors: Dr. Hemanth N & Prof. Manjula P**

- The software simulates audiological profiles at a lab environment for audiological evaluation training.
- The audiological evaluation simulation includes
  - ✓ Case history
  - ✓ Otoscopic examination
  - ✓ Pure tone audiometry
  - ✓ Speech audiometry
  - ✓ Masking (tone & speech)
- It provides experience and practice to students through a variety of case simulations at the laboratory environment which would help them in developing necessary skills for handling patients at clinical situation.



# Auditory-Cognitive Training Module

Developed in the Department of Audiology as a part of ARF project 'Development and Test Trail of Computer Based Auditory-Cognitive Training Module for Individuals with Cochlear Hearing Loss'

All India Institute of Speech and Hearing, Mysuru, India

**Authors: Dr. Ajith Kumar U, Dr. Sandeep M**

- Focused on developing and validating a software-based training module.
- Has two modules
- Auditory training Module: Involves training paradigms in various difficult listening environments such as speech in noise, reverberation, rapid rate and voicing with adaptive variations in difficulty levels.
- Cognitive training Module: focused on training for skills to improve working memory ability.



# A manual for Speech Sound Error Therapy in Kannada ASSET-K

Developed in the Department of Speech Language Sciences as a part of  
Student Dissertation  
All India Institute of Speech and Hearing, Mysuru, India

**Authors: Dr. N. Sreedevi & Ms. Pooja .C.K**

- The manual focusses on minimal pair therapy to improve articulation.
- The manual helps to select the words based on errors.
- Error sounds are identified and presented in minimal pair in both modes (pictures and in words)
- It gives corrective feedback of right and wrong answer.



## Listening Effort and Fatigue

Developed in the Department of Audiology as a part of ARF project All India Institute of Speech and Hearing, Mysuru, India

**Authors: Dr. Ajith Kumar U & Dr. Hemanth N**

- Listening effort and Fatigue software comprises of primary and secondary task
- In Primary task, listener has to repeat the word. In secondary task, listener will be instructed to recall the heard words
- It assesses the working memory and often used in evaluating the benefit of hearing aid
- Overall, it has three modules: to load stimulus, present stimulus and graphical representation of provided data related to listener task.



## **Tinnitus Manager Version 1.0**

Developed in the Department of Audiology as a part of ARF project  
All India Institute of Speech and Hearing, Mysuru, India

**Authors: Dr. Ajith Kumar U & Dr. Hemanth N**

- Tinnitus Manager software was developed for management of Tinnitus
- This software includes a Questionnaire for tinnitus assessment, evaluation module and treatment module
- It assesses Pitch, Loudness of Tinnitus, Minimal masking level.
- The training program for treatment of tinnitus using sound therapy protocol is provided in the module.