

AUDI 21203- Introduction to Audiology 2

Status	Optional (A)
No of Hours	45 hours
No of Credits	3
Learning Outcomes	<ul style="list-style-type: none"> Outline the instruments related to audiometry and electro acoustic calibration of audiometer. Perform the procedures involved in routine pure tone and speech audiometric evaluation of hearing and tuning fork tests. Interpret the audiogram, results of speech audiometric tests and tuning fork tests. Demonstrate subjective calibration of transducers used in audiometry.
Methods of Teaching and Learning	Lectures, problem-based learning, lab-based learning, case studies
Module content	<p>Unit 1: Tuning fork tests</p> <ul style="list-style-type: none"> Interpretation of tuning fork tests Advantages and disadvantages of each test Audiometric version of tuning fork tests <p>Unit 2: Audiometer</p> <ul style="list-style-type: none"> Classification of audiometers Parts of an audiometer Transducers Noise levels permissible in audiometric rooms Standards <p>Unit 3: Pure tone audiometry</p> <ul style="list-style-type: none"> Historical development Rationale behind pure tone audiometry Methods of obtaining pure tone thresholds Audiogram- symbols used, interpretation, usefulness Factors affecting air conduction (AC) thresholds Factors affecting Bone Conduction (BC) thresholds. Sensory-neural Acuity Level tests Standards <p>Unit 4: Speech audiometry</p> <ul style="list-style-type: none"> Different types of stimuli used in speech audiometry Speech detection threshold Speech recognition threshold (SRT) SRT and pure tone average (correlation) Speech identification score PIPB function UCL, MCL, dynamic range BC speech audiometry Speech materials available in Sinhala language

- Clinical application of speech audiometry

Unit 5: Calibration of audiometers

- Subjective calibration
- Real ear methods for AC and BC calibration
- Instruments used for calibration
- Electro acoustic calibration of the output intensity, frequency of headphones, insert receiver and bone vibrators
- Calibration of speech stimulus
- Standards.

Assessment

MCQ 50%, (1 hour), SEQ 50% (2 hours)