## AUDI 21183- Introduction to Audiology 1

Status	Optional (A)
No of Hours	45 hours
No of Credits	3
Learning Outcomes	<ul> <li>Explain the importance of case history in determining causes of hearing loss</li> <li>Anatomy of human auditory system.</li> <li>Demonstrate understanding of the fundamental concepts of Audiology and hearing loss related aspects</li> <li>Explain basic terminology used in Audiology</li> </ul>
Methods of Teaching and Learning	Lectures, case studies, role-play
Module content	<ul> <li>Unit 1: Anatomy ear</li> <li>Outer ear</li> <li>Middle ear</li> <li>Inner ear</li> <li>Central auditory nervous system</li> <li>Vestibular system</li> <li>Efferent auditory pathways</li> <li>Unit 2: Case history</li> <li>Need for case history</li> <li>Essential factors to be included in the case history form</li> <li>Comparison of adult versus child case history</li> <li>Unit 3: Frequency</li> <li>Octave frequency concept</li> <li>Psychological correlate</li> <li>Relationship between pith and frequency</li> <li>Differential sensitivity: differential threshold, JND, DL for frequency</li> <li>Differential sensitivity: differential threshold, JND, DL for intensity</li> <li>Intensity</li> <li>Relationship between loudness and intensity</li> <li>Equal loudness contours and equal pitch contours</li> <li>Phones and sones</li> <li>Use of phones and sones graph</li> <li>Computation of relative loudness of two given sounds using these graphs</li> <li>Unit 4: Decibel (dB) concept</li> <li>Tore dB acfecture of commune</li> <li>Power and pressure formulae</li> <li>Tore dB acfecture of commune</li> </ul>

Calculation of actual SPL

	<ul> <li>Reference and dB values</li> <li>Calculation of overall dB when two signals are superimposed</li> <li>Hearing level, Sensation level</li> <li>Application of dB</li> <li>Most comfortable level and application</li> <li>Threshold concept</li> <li>Threshold of audibility</li> <li>MAP and MAF</li> <li>Threshold of pain</li> </ul>
	<ul> <li>General characteristics of conductive, mixed and sensorineural hearing loss</li> <li>Hereditary deafness and Congenital deafness</li> <li>Acquired hearing loss in children and adults</li> <li>Causes of central auditory processing disorders</li> <li>Pseudohypacusis</li> </ul>
Assessment	SEQ 100% (3 hrs)