Status	Optional (A)
No of Hours	45 hours
No of Credits	3
Learning Outcomes	<ul> <li>Describe the different types of hearing aids and assistive devices.</li> <li>Demonstrate the selection, care and maintenance of hearing devices</li> </ul>
Methods of Teaching and Learning	Lectures
Module content	<ul> <li>Unit 1 <ul> <li>Historical development of hearing aids</li> <li>Overview of basic components used in hearing aids</li> </ul> </li> <li>Unit 2 <ul> <li>Types of hearing aids</li> <li>Body level hearing aids, body baffle effect, ear level hearing aids</li> <li>Mono-aural, pseudo-binaural, binaural hearing aids</li> <li>Directional hearing aids, custom and modular hearing aids</li> <li>Routing of signals- head shadow/ baffle/ diffraction effect, variations of CROS</li> <li>Output limiting</li> <li>Extended high frequency amplification, frequency lowering techniques.</li> <li>Group amplification systems</li> <li>Signal processing in hearing aids</li> <li>Signal enhancing technologies</li> <li>Wireless connectivity of hearing aids and cochlear implants</li> </ul> </li> </ul>
	Assistive listening devices- types and selection
	<ul> <li>Unit 3</li> <li>Electro acoustic measurements of hearing aids <ul> <li>Purpose, instrumentation, parameters, procedures, variables affecting measurements</li> <li>IEC and ANSI standards</li> <li>Environmental tests</li> </ul> </li> <li>Mechano acoustic couplers (ear mold) – types, procedure, hard, soft molds, effect of acoustic couplers on hearing aid response</li> </ul>