



Dr. S. R. Chandrasekhar Institute of Speech and Hearing
(A unit of Bangalore Speech and Hearing Trust)
(A Project of Lions Club Bangalore East)

(Affiliated to Bangalore North University, recognized by Rehabilitation Council of India, New Delhi & NAAC accredited)



Tel: 080-25460405/25470037/25468470 Fax: 080-25467829

Email: dr.srcish@gmail.com Web: www.speechear.org

B++ Accreditation by NAAC

ICT ENABLED LEARNING FACILITIES AT THE INSTITUTE

The teaching learning process involves effective use of ICT such as Computer Lab, Smart Boards, Monitor with HDMI support and Projector. The premises is supported with Wi fi as well.





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SEMINAR HALL WITH PROJECTOR AND SMART BOARD





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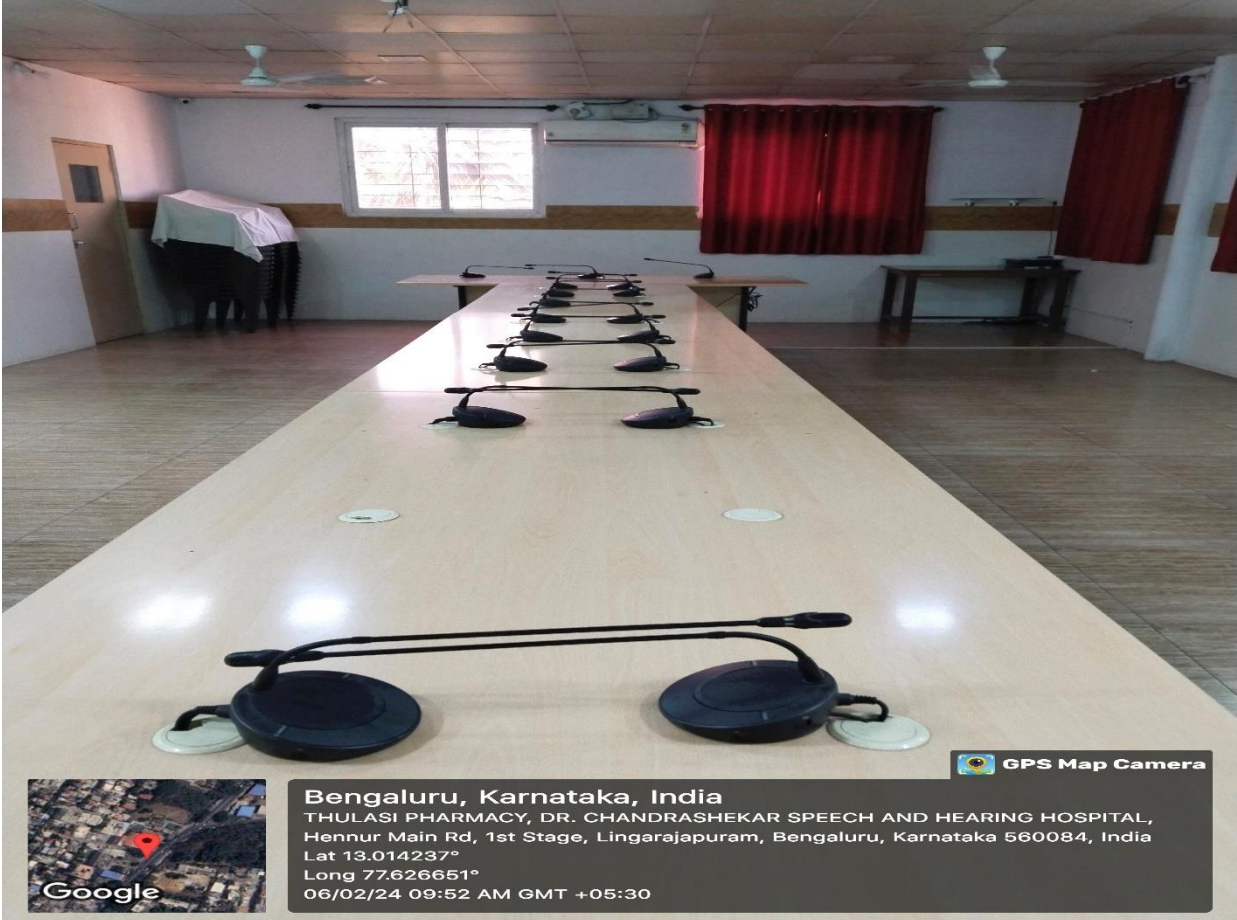
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CLASSROOMS EQUIPPED WITH MONITOR (WITH HDMI SUPPORT)





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LESSON PLAN B.44 -IMPLANTABLE HEARING DEVICES -IV SEMESTER BASLP -JUNE 2023-SEPTEMBER 2023 SUBJECT INCHARGE: Subhashini D
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Topic	Tutorial	Practical	Teaching Strategies	Duration
Unit 1: Implantable hearing devices – basics				
Need for implantable hearing devices			Board Teaching, Powerpoint, Quiz, Self Reading	1 Hr
History of implantable hearing devices (bone anchored hearing devices, middle ear implants, cochlear implants, auditory brainstem implants and midbrain implants)				1 Hr
Candidacy for implantable hearing devices				2 Hrs
Team involved in implantable hearing devices				1 Hr
Pre-implant counselling, Informed consent				1 Hr
Unit 2: Bone anchored hearing devices and middle ear implants				
Types, components	Surgical Options https://www.youtube.com/watch?v=EZ-M9AxesVc https://www.youtube.com/watch?v=aMKTtsfwvIE https://www.youtube.com/watch?v=R1EJkCoXlrf https://www.youtube.com/watch?v=TIBZci2B_IY	Experiencing sound output through demo BAHA kit available in clinics. Identifying parts from the same	Board Teaching, Powerpoint, Quiz, Case Studies	4 Hrs
	Non surgical options https://www.youtube.com/watch?v=t13vL0yvmMQ			12 Hrs

Surgical approaches, risks, complications	https://www.youtube.com/watch?v=Pz2qZxakV1I			3 Hrs
Audio logical evaluations for candidacy, contraindications		Case studies-Designing and creating case examples (audiogram, immittance and BERA results) of different degrees of conductive and mixed losses to determine candidacy		3 Hrs
Assessment of benefits				2 Hr
Unit 3: Cochlear implant and brain stem implants – basics				
Terminology, types, components and features	https://www.youtube.com/watch?v=k93lZHZT4yc https://www.youtube.com/watch?v=Ym0mZHP9RahE https://www.youtube.com/watch?v=1.5n7BJfIDEEM https://www.youtube.com/watch?v=io2uVWguE0 https://www.youtube.com/watch?v=...	Assembling and de assembling demo kit processors of three companies Examining different types of electrodes from demo kit (straight and modiolar)	Board Teaching, Powerpoint, Quiz, Demo kits	4 Hrs
				12 Hrs

	https://www.youtube.com/watch?v=v8Fx3usN2rI https://www.youtube.com/watch?v=R0cVyp0eq2U https://www.youtube.com/watch?v=ykikr78BPo			1 Hr
Bilateral, bimodal and hybrid cochlear implants				2 Hrs
Factors related to selection of the device, funding sources				2 Hrs
Surgical approaches, risks, complications	https://www.youtube.com/watch?v=h7time_continue=358&v=AOR_B8KmiVs&feature=emb_logo https://www.youtube.com/watch?v=h7v=2vy8XGA2EDA			4 Hrs
Audio logical and non-audio logical candidacy criteria, contraindications	https://www.youtube.com/watch?v=MUzXXz8Y6y0			4 Hrs
Unit 4: Cochlear implants and brainstem implants				
Signal coding strategies, classification, types	https://www.youtube.com/watch?v=DK45oSo49Xs https://www.youtube.com/watch?v=69ORphiwMVY		Board Teaching, Powerpoint, Quiz, Training mode using softwares	5 Hrs
Intraoperative monitoring by audiologists	Videos from Dr SRCISH			3 Hrs
Objective measures: ESRT, ECAP, prom stim, EABR, aided cortical potentials	https://www.youtube.com/watch?v=TCMV0MOYuw	Showcasing operations in training mode		4 Hrs



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	https://www.youtube.com/watch?v=OUH7YIXOWIk https://www.youtube.com/watch?v=4NjnZjgWz10 https://www.youtube.com/watch?v=IKZAHg5vIR4 https://www.youtube.com/watch?v=NMBDHgMAxUI https://www.youtube.com/watch?v=1HStjLQwtE				21 Hrs
Post implant Mapping: schedule, pre-requisites, switch-on, mapping parameters, impedance, compliance, role of objective and subjective measures in mapping	https://www.youtube.com/watch?v=uPieqYR-BLc	Showcasing operations in training mode		5 Hrs	
post mapping audiological evaluation				2 Hrs	
Assessment of benefits				1 Hr	
Optimization of hearing aid on contralateral ear				1 Hr	
Unit 5: Implantable hearing devices - Counselling and troubleshooting: (10 hrs) Rehabilitation					
Post implant Counselling on care and maintenance and troubleshooting of the device		Role playing, Observation of therapy sessions, identifying therapy goals and activities, assembling and re assembling of processors in demo kit		2 Hrs	5 Hrs
Overview of post implant rehabilitation including AVT				2 Hrs	
Factors affecting outcome of implantable devices in adults and children				1 Hr	

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