

(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)



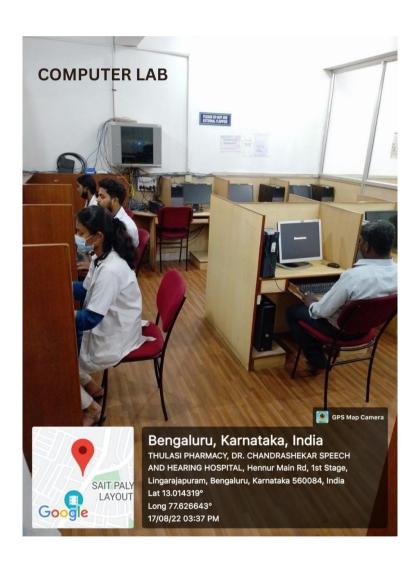
Tel: 080-25460405/25470037/25468470 Fax: 080-25467829

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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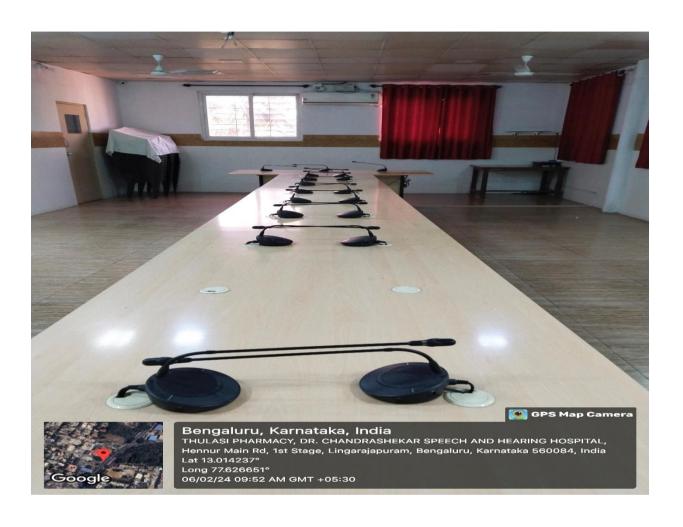
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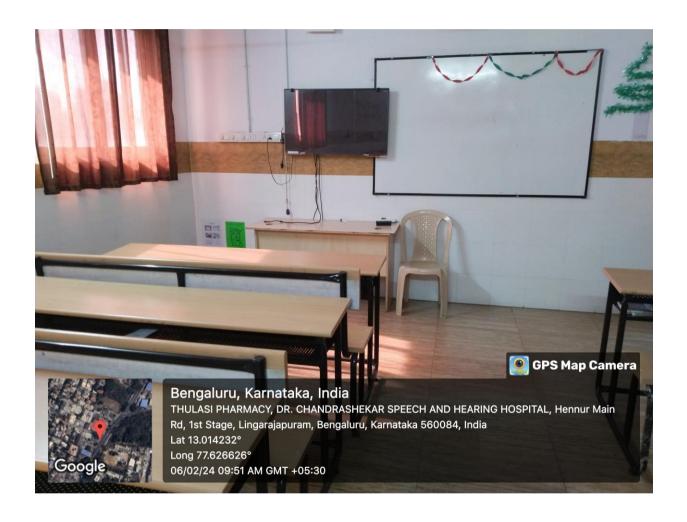


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CLASSROOMS EQUIPPED WITH MONITOR (WITH HDMI SUPPORT)





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ICT TOOLS FOR CLASSROOM TEACHING

		TION DEVICES-III SEMESTER BASL 2023 ubject In charge: Subhashini D	P -November 2022 to Fe	b		VATIONAL PARTY
The state of	Торіс	Tutorial	Practical	Teaching Strategies		Duration
		Unit 1:Types of hearing aids	77		•	
Historical development of hea amplification, development of different types	ring aids: development of concept of of amplification devices	https://www.embs.org/pulse/articles/ hearing-aid-history-from-car- trumpets-to-digital-technology/			2 Hrs	
Review of basic elements of h Receiver/vibrator, Cords, Batteries.	earing aids: Microphone, Amplifier,	https://www.boystownhospital.org/ knowledge-center/hearing-aids- types	Demonstration with Hearing Aids	Power point Presentations	1 Hr	
Classification and Types of he Body level, ear level, in the ear, ITC, invisible in the canal, CIC Binaural, pseudo binaural, monaural Programmable, trimmer digital digital hearing aids Directional hearing aid modular hearing aid		https://hocws.fda.gov/medical- devices/hearing-aids/types-hearing- aids. https://www.soundheafthservices.co m.hearing-hearing-aid-styles/	Demonstration with dummy devices in Audiology clinics	Videos Quizzes Observation/ Demonstrations	2 Hrs	10 hrs

RIC hearing aids RIC hearing aids Implantable hearing aids CROS hearing aids CROS hearing aids	https://www.audiologyonline.com/a rticles/implantable-auditory- technologies-13250 https://www.audiologyonline.com/a rticles/implantable-auditory- technologies-13250	Observing Hearing Aid Trial, Identifying parts of Hearing aid	Power point Presentations Videos Quizzes Observation/ Demonstrations	2 Hrs	
Group amplification – hard wired, induction loop, FM, infrared	https://www.audiologyonline.com/a rticles/understanding-hearing- loops-794 https://www.audiologyonline.com/a rticles/frequency-modulation-fm- systems-for-1166			2 Hrs	
Assistive listening devices – types and selection (Telephones, Television, typingtechnology)	https://www.audiologyonline.com/a rticles/assistive-devices- inexpensive-and-alternative-1122	Observing additional accessories compatible with Hearing aids during trial.		1 Hr	
Unit	2: Technological aspects in hearing aid	ds		,	
Routing of signals, head shadow/baffle/diffraction effects	https://salfordacoustics.co.uk/sound -waves/diffraction		Power point Presentations	2 Hr	
	https://salfordacoustics.co.uk/sound -waves/diffraction		Videos		

				TAMAT	1033
- Contraction of the Contraction	bic-styles materials and acoustic- modifications		Quizzes		
	https://www.audiologyonline.com/a rticles/ourmolth-and-more maximizing-patient-850	Observation of Ear mould making / Field visit	Observation/ Demonstrations		
Procedure for hard molds and soft mold	https://www.youtube.com/watch?v -vftl_ZD0PTs0 (Phonak Tutorial)	Visit		2 Hr	
	hitps://www.youtube.com/watch?v <u>COVNsp9_bNZw(</u> Starkey Tutorial)				
	https://www.youtube.com/watch?v =:AsmMalfq-AOs(Resound Tutorial)				
UV curing methods	https://uk.starkeypro.com/pdfs/nhs/ mades/1891.126862520carmould?s2 Osolutions?520guide?52011R.pdf	Observation of Ear mould making / Field visit		2 Hr	
Special modifications in the ear molds: Vents (diagonal and parallel), deep canal molds, short canal, horns, Libby horn, reverse horn, acoustic modifier	https://www.bearingreview.com/pra stice-building/practice: management/earmoids-practical- considerations is improve- ner formance in the cine said.			2 Hrs	

ects of mechano-acoustic couplers on the hearing aid output	https://www.xoutube.com/watch?x =oRZAJZSCL_e (Dr. Chff) https://www.xdodanbar.acchindocyr incer/oarmolds-acountic-gouplings/ incer/oarmolds-acountic-gouplings/ incer/oarmolds-acountic-gouplings/	2 110



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LESSON PLAN B.4.4-IMPLANTABLE HEARING DEVICES -IV SEMESETER BASLP -JUNE 2023-SEPTEMBER 2023 SUBJECT INCHARGE: Subhashini D

Торіс	Tutorial	Practical	Teaching Strategies		Duration
Unit 1	: Implantable hearing devices - basi	cs			
Need for implantable hearing devices			Board	1 Hr	6 Hrs
History of implantable hearing devices (bone anchored hearing devices,			Teaching,	1 Hr	
middle ear implants, cochlear implants, auditory brainstem implants and			Powerpoint,		
midbrain implants)			Quiz, Self		
Candidacy for implantable hearing devices			Reading	2 Hrs	
Team involved in implantable hearing devices				1 Hr	
Pre-implant counselling, Informed consent				1 Hr	
Unit 2: Bone and	chored hearing devices and middle e	ar implants			
Types, components	Surgical Options	Experiencing sound			
	https://www.youtube.com/watc	output through demo			
	h?v=EZ-M9AxesVc	BAHA kit available in		4 Hrs	
	https://www.youtube.com/watc	clinics. Identifying parts			
	h?v=aMKTIsfwv1E	from the same			
	https://www.youtube.com/watc				
	h?v=R1EJkCoXlrI		Board Teaching,		
	https://www.youtube.com/watc		Powerpoint,		
	h?v=TiBZci2B_IY		Quiz, Case		
			Studies		
	Non surgical options				12 Hrs
	https://www.youtube.com/watc				
	h?v=t13vLzOyvMQ				

Surgical approaches, risks, complications	https://www.youtube.com/watch?v			3 Hrs	
and the state of t	=Pz2qZxzkV1I				
	T Sample State Control of the Contro				
Audiological evaluations for candidacy, contraindications		Case studies-Designing	1	3 Hrs	
vadiological evaluations for candidacy, contramidications		and creating case		3 HIS	
		examples (audiogram, immittance and BERA			
		results) of different			
		degrees of conductive and mixed losses to			
		determine candidacy			
Assessment of benefits				2 Hr	
	Cochlear implant and brain stem implants -				
Terminology, types, components and features	https://www.youtube.com/watch?v	Assembling and de			
	=k931ZHZT4ye	assembling demo kit			
		processors of three			
	https://www.youtube.com/watch?v	companies			
	=Vm0nZH9RahE				
		Examining different			
	https://www.youtube.com/watch?v	types of electrodes from	Board Teaching,		
	=1.5n7BjFIDEM	demo kit (straight and	Powerpoint,		
		modiolar)	Quiz,Demo kits		
	https://www.youtube.com/watch?v				
	=io2ujVWguF0				
				4 Hrs	12 Hrs
	https://www.youtube.com/watch?v				

	https://www.youtube.com/watch?v =v8Ex3usN2rI				
	https://www.youtube.com/watch?v =R0cVyp0yq3U				
	https://www.youtube.com/watch?v =ykjikrz8BPo				
Bilateral, bimodal and hybrid cochlear implants				1 Hr	
Factors related to selection of the device, funding sources				2 Hrs	
Surgical approaches, risks, complications	https://www.youtube.com/wate h?time_continue=358&v=AOR b8KmiVs&feature=emb_logo			2 Hrs	
	https://www.youtube.com/wate h?v=2vy8XGA2EDA				
Audiological and non-audiological candidacy criteria, contraindications	https://www.youtube.com/watch?v =MUzXXz8Y6y0			4 Hrs	
Unit 4: Co	ochlear implants and brainstem imp	lants			
Signal coding strategies, classification, types	https://www.youtube.com/watch?v =DK45qSod9Xs			5 Hrs	
	https://www.youtube.com/watch?v =69ORphiwMVY		Board Teaching, Powerpoint, Quiz, Training		
Intraoperative monitoring by audiologists	Videos from Dr SRCISH		mode using	3 Hrs	
Objective measures: ESRT, ECAP, prom stim, EABR, aided cortical potentials	https://www.youtube.com/watch?v =TCMVi0MOYuw	Showcasing operations in training mode	softwares	4 Hrs	



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	https://www.youtube.com/watch?v =OUH7YIXOWIk			
	https://www.youtube.com/watch?y =4NJnZjgWzI0			21 Hrs
	https://www.youtube.com/watch?v =IKZAHg5vlR4			
	https://www.youtube.com/watch?v =NMBDHgMAxUI			
	https://www.youtube.com/watch?v =1iH5tjLQwtE			
Post implant Mapping: schedule, pre-requisites, switch-on, mapping	https://www.youtube.com/watch?v	Showcasing operations in	5 Hrs	
parameters, impedance, compliance, role of objective and subjective measures in mapping	=uPiegYR-BLc	training mode		
post mapping audiological evaluation			2 Hrs	
Assessment of benefits			1 Hr	
Optimization of hearing aid on contralateral ear			1 Hr	
Unit 5: Implantable hearing dev	ices - Counselling and troubleshooti	ng; (10 hrs) Rehabilitation		
Post implant Counselling on care and maintenance and troubleshooting of the		Role playing, Observation	2 Hrs	
device		of therapy sessions,		5 Hrs
Overview of post implant rehabilitation including AVT		identifying therapy goals	2 Hrs	
Factors affecting outcome of implantable devices in adults and children		and activities, assembling	1 Hr	
		and re assembling of		
		processors in demo kit		

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